



# Mayo County Council

Energy Upgrade Works at Aras An Chontae,  
Castlebar and Westport Leisure Centre,  
Westport, Co. Mayo  
Pricing Document  
508819



The Value of Certainty.

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# Pricing Document

This is a pricing schedule for assistance in tender assessment and post contract administration of this project. The tenderer should base their tender price on the entire Works Requirements and Novation Documents including drawings, specifications, details, schedules, preliminaries, insurances, site limitations, site access and egress, existing site, services and ground conditions, all required standard working methods & restrictions, the preliminary safety & health plan and any other information included within the entirety of the tender package which will affect the successful completion of the contract scope of works.

The tenderer shall have no recourse for change orders if there is a discrepancy between this pricing schedule and the quantities, descriptions, layout, schedules and other information provided within the Volume A Works Requirements.

All quantities and measures included in this pricing schedule and noted in the works requirements drawings and specifications should be confirmed on site; all dimensions noted on drawings should be confirmed on site. The tenderer is responsible for verifying the existing conditions on site, notwithstanding any information provided within this Tender Package.

The Contractor shall include for any additional items not included within the Pricing Schedule but which are shown on the tender drawings, or contained within the tender specifications, or within the preliminary H&S Plan or which the Contractor considers necessary for the successful completion of the works





SEAI & Mayo County Council Pathfinder
Áras an Chontae Headquarters - Tender Issue Sheet



|                |  |  |  |          |            |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|----------|------------|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Project Number |  |  |  | Revision | Day        | 3  | 23 | 29 | 13 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-02( C )  |  |  |  |          | Month      | 4  | 4  | 4  | 5  | 5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                |  |  |  |          | Year       | 26 | 26 | 26 | 26 | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                |  |  |  |          | Issued By: | CD | CD | CD | CD | CD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Drawing No.                                                | Size | Scale | Drawing Title                     | Issue / Revision |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------|------|-------|-----------------------------------|------------------|---|---|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0000 Series - Site Plan                                    |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-02-ST-DR-A-0001-D2-P01                            | A1   | 1:200 | Phase 1 - Arch Office (2A) - Site |                  |   |   | P01 | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-02-ST-DR-A-0002-D2-P01                            | A1   | 1:200 | Phase 2 - Annex (2B) - Site       |                  |   |   | P01 | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-02-ST-DR-A-0003-D2-P01                            | A1   | 1:200 | Phase 3 - Aras HQ (2C) - Site     |                  |   |   | P01 | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-ZZ-DR-A-0001-D2-P01                            | A1   | 1:200 | Phase 3.1                         |                  |   |   | P01 | P02 | P03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-ZZ-DR-A-0002-D2-P01                            | A1   | 1:200 | Phase 3.2                         |                  |   |   | P01 | P02 | P03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1000 Series - Floor Plans                                  |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-GF-DR-A-1101-D2                                | A1   | 1:100 | Existing Ground Floor Plan        | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-01-DR-A-1102-D2                                | A1   | 1:100 | Existing First Floor Plan         | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-02-DR-A-1103-D2                                | A1   | 1:100 | Existing Second Floor Plan        | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-RF-DR-A-1104-D2                                | A1   | 1:100 | Existing Roof Plan                | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-GF-DR-A-1201-D2                                | A1   | 1:100 | Proposed Ground Floor Plan        | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-01-DR-A-1202-D2                                | A1   | 1:100 | Proposed First Floor Plan         | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-02-DR-A-1203-D2                                | A1   | 1:100 | Proposed Second Floor Plan        | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-RF-DR-A-1204-D2                                | A1   | 1:100 | Proposed Roof Plan                | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-02-DR-A-1301-D2                                | A1   | 1:100 | Existing Second Floor RCP         | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-02-DR-A-1302-D2                                | A1   | 1:100 | Proposed Second Floor RCP         | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2000 Series - Elevations                                   |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DR-A-2101-D2                                | A1   | 1:100 | Existing Elevations               | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DR-A-2201-D2                                | A1   | 1:100 | Proposed Elevations               | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3000 Series - Sections                                     |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DR-A-3101-D2                                | A1   | 1:50  | Sections                          | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4000 Series - Details                                      |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DR-A-4101-D2                                | A1   | 01:10 | Details AA                        | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DR-A-4102-D2                                | A1   | 1:10  | Miscellaneous Details             | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5000 Series - Stairs                                       |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N/A                                                        | -    | -     | -                                 | -                |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6000 Series - Schedules                                    |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SH-A-6001-D2                                | A1   | 01:25 | Window Schedule                   | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SH-A-6002-D2                                | A1   | 01:25 | Curtain Wall Schedule             | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SH-A-6003-D2                                | A1   | 1:25  | Curtain Wall Schedule             | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SH-A-6004-D2                                | A1   | 01:25 | External Door Schedule            | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SH-A-6005-D2                                | A1   | 01:25 | Rooflight Schedule                | P01              |   |   |     | P02 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7000 Series - Room Data Sheets                             |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N/A                                                        | -    | -     | -                                 | -                |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XXXX Documents                                             |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DS-A-XXXX-D2                                | A4   | n/a   | Design Risk Assesment             |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-HS-A-XXXX-D2                                | A4   | n/a   | Health & Safety Plan              |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-RP-A-XXXX-D2                                | A4   | n/a   | Contractor Works Requirement      |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-DS-A-XXXX-D2                                | A4   | n/a   | Safety File Checklist             |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24064-MA-2C-XX-SP-A-XXXX-D2                                | A4   | n/a   | Architectural Specification       |                  |   |   | P01 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Drawing Size: A4, A3, A2, A1, A0 or Varies                 |      |       |                                   | V                | V | V | V   | V   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Drawing Medium: Paper, transparent, Electronic             |      |       |                                   | E                | E | E | E   | E   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Client                                                     |      |       |                                   | ✓                | ✓ | ✓ | ✓   | ✓   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contractor                                                 |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Structural Engineer                                        |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M&E Engineer                                               |      |       |                                   | ✓                | ✓ | ✓ | ✓   | ✓   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fire Consultant                                            |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity Surveyor                                          |      |       |                                   | ✓                | ✓ | ✓ | ✓   | ✓   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Local Authority                                            |      |       |                                   | ✓                | ✓ | ✓ | ✓   | ✓   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Assigned Certifier                                         |      |       |                                   |                  |   |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Purpose: Information, Approval, Revision, Comment          |      |       |                                   | C                | C | C | C   | C   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delivery By: Post, E-mail, Our Courier, Your Courier, Hand |      |       |                                   | E                | E | E | E   | E   |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[illegible]



[illegible]



10002 - Áras on Chontae  
Stage Stage 4 Drawing Production Schedule



| Drawing Number            | Drawing Title                                    | Discipline | Size | Scale | Revision Status | Ireland owner | Belgrade Owner | Draft Issue Date | Final Issue Date | Type | Sheet Set Up | Markup Complete | BIM First Pass | QA 1 | BIM Second Pass | QA 2 | DT Comments Received? | DT Comments Addressed | Client Signed Off? | Percentage Completion |
|---------------------------|--------------------------------------------------|------------|------|-------|-----------------|---------------|----------------|------------------|------------------|------|--------------|-----------------|----------------|------|-----------------|------|-----------------------|-----------------------|--------------------|-----------------------|
| 10002-IRB-XX-XX-D-M-57001 | Drawing list, Schedules, Keyplan & General notes | Mech       | A1   | NTS   | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-GF-D-M-57001 | Mechanical Courtyard - Ground Floor              | Mech       | A1   | 1:50  | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-RF-D-M-57001 | Roof Plan - HVAC Demolition and New              | Mech       | A1   | 1:50  | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-ZZ-D-M-55001 | Mechanical Hydronic Schematic - Demolition       | Mech       | A1   | NTS   | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-ZZ-D-M-55002 | Mechanical Hydronic Schematic - New              | Mech       | A1   | NTS   | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-ZZ-L-M-50001 | Mechanical Schedule                              | Mech       | A1   | NTS   | T01             | IRL/ AM       |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
|                           |                                                  |            |      |       |                 |               |                |                  |                  |      |              |                 |                |      |                 |      |                       |                       |                    |                       |
| 10002-IRB-XX-XX-G-E-60001 | Electrical Legend                                | Elec       | A1   | NTS   | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-XX-G-E-60002 | Partial Single Line Diagram                      | Elec       | A1   | NTS   | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-ZZ-L-E-60001 | Luminaire Schedule                               | Elec       | A1   | NTS   | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-GF-D-E-62002 | Proposed Power Plan - Ground Floor               | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-01-D-E-62002 | Proposed Power Plan - First Floor                | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-02-D-E-62002 | Proposed Power Plan - Second Floor               | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-RF-D-E-62001 | Proposed Power Plan - Roof                       | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-GF-D-E-63001 | Demolition Lighting Plan - Ground Floor          | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-GF-D-E-63002 | Proposed Lighting Plan - Ground Floor            | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-01-D-E-63001 | Demolition Lighting Plan - First Floor           | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-01-D-E-63002 | Proposed Lighting Plan - First Floor             | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-02-D-E-63001 | Demolition Lighting Plan - Second Floor          | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |
| 10002-IRB-XX-02-D-E-63002 | Proposed Lighting Plan - Second Floor            | Elec       | A1   | 1:100 | T01             | IRL/JM        |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | 100%                  |

**10002 - Westport Leisure Centre**  
**Stage Stage 4 Drawing Production Schedule**



| Drawing Number            | Drawing Title                               | Discipline | Size | Scale | Revision Status | UK Owner | Belgrade Owner | Draft Issue Date | Final Issue Date | Type | Sheet Set Up | Markup Complete | BIM First Pass | QA 1 | BIM Second Pass | QA 2 | DT Comments Received? | DT Comments Addressed | Client Signed Off? | Percentage Completion       |
|---------------------------|---------------------------------------------|------------|------|-------|-----------------|----------|----------------|------------------|------------------|------|--------------|-----------------|----------------|------|-----------------|------|-----------------------|-----------------------|--------------------|-----------------------------|
|                           |                                             |            |      |       |                 |          |                |                  |                  |      |              |                 |                |      |                 |      |                       |                       |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-XX-G-E-60001 | Electrical Legend                           | Elec       | A1   | NTS   | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-XX-G-E-60002 | Partial Single Line Diagram                 | Elec       | A1   | NTS   | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-GF-D-E-62001 | Demolition & Proposed Power Plan - Basement | Elec       | A1   | 1:100 | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-GF-D-E-62002 | Proposed Power Plan - Ground Floor          | Elec       | A1   | 1:100 | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-01-D-E-62002 | Proposed Power Plan - First Floor           | Elec       | A1   | 1:100 | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-GF-D-E-62001 | Proposed Power Plan - Roof                  | Elec       | A1   | 1:100 | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |
| 10002-IRB-XX-01-D-E-63001 | Demolition Lighting Plan - First Floor      | Elec       | A1   | 1:100 | T01             | IRL/JM   |                | 22/5/2026        |                  |      | Yes          | Yes             | Yes            | Yes  | Yes             | Yes  | Yes                   | Yes                   |                    | <div><div></div></div> 100% |



Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| PREAMBLES   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|             | PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
| A           | The Currency for this Contract shall be the Euro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | Note |           |
| B           | The pricing Document is to be completed in FULL and the appropriate rates inserted against ALL work items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | Note |           |
| C           | This document shall be read in conjunction with the "Public Works Contract for Building Works Designed by the Contractor", clauses as listed elsewhere. The Contract will take precedence where any inconsistencies, discrepancies or ambiguities exist. This Pricing Document IS NOT a specification; all information contained therein has been provided by the project designers; if in any doubt the Contractor should check with the Architect, Structural Engineer and/or Services Engineers, and seek any clarification or confirmation from them before ordering any materials or putting any work in hand based solely on information contained in the Pricing Document |          | Note |           |
| D           | This document shall be read in conjunction with the works requirements with particular reference to all drawings and specifications etc included in the Works Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | Note |           |
| E           | The hierarchy of Contract documents as set out in clause 1.4 of the Contract, determines precedence where any inconsistencies, discrepancies or ambiguities exist between Contract documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | Note |           |
| F           | Approved' shall mean in writing by the Employers Representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | Note |           |
| G           | Instructed' shall mean in writing by the Employers Representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | Note |           |
| H           | The Pricing Document shall be issued in pdf format and excel format. The returned Pricing Document shall be an inked hard copy or a printed hard copy and a soft copy. The completed hard copies Documents must be signed, in ink, by an authorised representative of the Contractor. By doing so, tenderers will be deemed to have confirmed that they have made no alterations to the descriptions, quantities or units contained in the issued Pricing Document. Should a discrepancy occur the master document shall be the pdf document issued with the tender documents                                                                                                    |          | Note |           |
| I           | All items in this Pricing Document(s) must be priced, extended and totalled in detail at time of tendering. Any items left unpriced shall be held to be included in the prices given for other items of the work. The completed General Summary must be signed, in ink, by an authorised representative of the Contractor                                                                                                                                                                                                                                                                                                                                                        |          | Note |           |
| J           | By pricing these works the Contractor will be held to have visited the site and formed his own opinion as to the extent of the actual work involved, including for all temporary works over and above those measured below, and for monitoring any adjacent buildings for both movement and vibration, as necessary to properly carry out the works                                                                                                                                                                                                                                                                                                                              |          | Note |           |
| K           | The Contractor shall price the items in the Pricing Document exclusive of Value Added Tax with VAT added in the summary page only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | Note |           |
| L           | Nothing in the Specifications nor the Pricing Document shall override, modify or affect in any way whatsoever, the application or interpretation of that which is contained in the Conditions of Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | Note |           |
| M           | The Contractor must visit the site to determine the full nature and extent of the work involved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | Note |           |
| N           | The Contractors attention is drawn to the existence of existing services on and over the site and they should ascertain and satisfy themselves that all unnecessary services are isolated before commencing work                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | Note |           |
| O           | The Contractor is to allow for and include in his rates for the various work items for any scaffolding, propping, shoring, temporary works, etc. that may be required during the works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | Note |           |
| P           | The Contractor is to allow for and include in his rates for the various work items for making good structures or finishes disturbed that may be required during the works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | Note |           |

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# Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo

## Pricing Document

| Description |                                                                                                                                                                                                                                                                                                 | Quantity | Rate | Total (Γ) |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| PREAMBLES   |                                                                                                                                                                                                                                                                                                 |          |      |           |
| A           | All work is to be carried out with care and in accordance with the Works Requirements; any damage caused either to the works or adjoining properties by the Contractors workforce shall be made good at their own expense; all proper and suitable protection must be afforded to mitigate this |          | Note |           |
| PREAMBLES   |                                                                                                                                                                                                                                                                                                 |          |      |           |

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# Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo

## Pricing Document

| Description     |  | Quantity | Rate | Total (Γ) |
|-----------------|--|----------|------|-----------|
| ARAS AN CHONTAE |  |          |      |           |
| ARAS AN CHONTAE |  |          |      |           |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quantity | Rate | Total (€) |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                    | (06) PRELIMINARIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| A                  | If the Contractor does not separately price any item in these Preliminaries he shall be deemed nevertheless to have allowed in his prices or in his rates for the cost of compliance with all the requirements of these Preliminaries. All the Preliminaries shall apply to the whole of the Works. The Contractor will be required to submit a detailed breakdown of his pricing of these Preliminaries before acceptance of his Tender.                                                                          |          | note |           |
| B                  | It will be a condition precedent of the award of this contract that the successful tenderer provides a full breakdown of all costs associated with the overall management and coordination of the construction project including all costs associated with works items, methods, sequences, phasing etc identified within this section of the BQ; this should include the split of all time related and fixed costs for erection and dismantling or setting up and dismantling of all temporary works requirements |          | note |           |
|                    | PRELIMINARY PARTICULARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                    | <u>PROJECT, PARTIES AND CONSULTANTS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                    | <u>Name of project</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| C                  | Energy Upgrades at Aras An Chontae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | note |           |
|                    | <u>Location of project</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| D                  | The Aras An Chontae site is located at Aras An Chontae, The Mall, Castlebar, Co. Mayo F23 WF90 and is shown on Mosart site location drawings 02-ST-DR-A-0001-D2, 02-ST-DR-A-0002-D2, 02-ST-DR-A-0003-D2                                                                                                                                                                                                                                                                                                            |          | note |           |
|                    | <u>General description of the works</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| E                  | The proposed works comprise replacement and upgrades to selected fabric elements and mechanical and electrical systems at the Aras An Chontae                                                                                                                                                                                                                                                                                                                                                                      |          | note |           |
|                    | <u>Name and address of the Employer</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| F                  | The 'Employer' shall mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | note |           |
| G                  | Mayo County Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| H                  | Aras An Chontae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| I                  | The Mall, Castlebar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| J                  | Co. Mayo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| K                  | F23 WF90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                    | <u>Names and addresses of the Consultants</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| L                  | The term 'Employer's Representative' shall mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | note |           |
| M                  | Rogerson Reddan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| N                  | Park House                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| O                  | Arthurs Quay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| P                  | Co. Limerick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| Q                  | V94 YP69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| R                  | The Architect is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | note |           |
| S                  | MosArt Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| T                  | 3rd Floor Clermont House                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| U                  | Wicklow County Campus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
| V                  | Co. Wicklow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Total (€)   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      | (Continued) |
| A                  | A67 X566                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| B                  | The Services Consultant is:                                                                                                                                                                                                                                                                                                                                                                                                                 |          | note |             |
| C                  | Introba Ireland Ltd                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
| D                  | Cathedral Court                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| E                  | New Street South, The Liberties                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| F                  | Dublin 08                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| G                  | D08 C525                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| H                  | The Quantity Surveyor is:                                                                                                                                                                                                                                                                                                                                                                                                                   |          | note |             |
| I                  | Currie & Brown (Ireland) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| J                  | Cathedral Court                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| K                  | New Street South, The Liberties                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| L                  | Dublin 08                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| M                  | D08 C525                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| N                  | The Contractor shall note that the Consultants as listed and any other Consultants appointed from time to time by the Employer shall have access to the site to inspect all or any of the works. Their instructions and directions shall be carried out by the Contractor who shall co-operate with them as required taking into account that the Employer's Representative shall have final and binding say in the question of directions. |          | note |             |
|                    | <u>DESCRIPTION OF THE SITE</u>                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |             |
| O                  | Site details are as shown on MosArt drawings 02-ST-DR-A-0001-D2, 02-ST-DR-A-0002-D2, 02-ST-DR-A-0003-D2                                                                                                                                                                                                                                                                                                                                     |          |      |             |
|                    | <u>Works Scope</u>                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| P                  | The upgrades to Aras An Chontae will entail the strip out and replacement of fabric elements which will include windows, doors and roof and ceiling finishes. It will also include the replacement of existing gas boilers with Air Source Heat Pumps and the replacement of existing light fittings with LED light fittings and the upgrade of electricity supply to accommodate the new ASHPs.                                            |          | note |             |
| Q                  | The works to the Aras An Chontae are to be phased as follows:                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| R                  | ^^^^Phase 1 - Architects Office                                                                                                                                                                                                                                                                                                                                                                                                             |          | note |             |
| S                  | ^^^^Phase 2 - Annex Building                                                                                                                                                                                                                                                                                                                                                                                                                |          | note |             |
| T                  | ^^^^Phase 3 - Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                       |          | note |             |
| U                  | The Contractor shall make himself aware of the presence and location of existing over and underground services and shall take all necessary precautions to avoid interference or damage to the services during the execution of the works; for details see existing site services and topographical drawings and existing site surveys and investigations reports issued as part of this tender                                             |          | note |             |
| V                  | Tenderers are required to visit the site as part of the tender process to familiarise themselves with existing site conditions at the Aras An Chontae ; details of the site visits are as per the ITT document issued with this tender                                                                                                                                                                                                      |          | note |             |
|                    | <u>DRAWINGS AND OTHER DOCUMENTS</u>                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
|                    | <u>The following drawings and other documents were used to prepare the Bill of Quantities</u>                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| W                  | The Architect's drawings, specifications, schedules and reports listed on MosArt drawing registers                                                                                                                                                                                                                                                                                                                                          |          | note |             |
| X                  | The Services Engineers drawings, specifications, schedules and reports listed on MosArt drawing registers                                                                                                                                                                                                                                                                                                                                   |          | note |             |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity | Rate | Total (€)   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      | (Continued) |
| A                  | <p>The Contractor is advised that the Bill of Quantities and Drawings are all complementary to each other and should be read in conjunction with each other; The Contractor is responsible for clarifying any ambiguities or conflicting information between the drawings, specifications and Bill of Quantities through the clarification process as identified within the Instructions to Tenderers documents issued as part of the tender package</p> <p>CONTRACT</p> <p><u>FORM OF CONTRACT</u></p>                                                                                                                      |          | note |             |
| B                  | The Articles of Agreement and Conditions of Contract shall be the Public Works Contract for Building Works Designed by the Employer (PW- CF1) which is current at the time of tendering                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | note |             |
| C                  | <p>The Articles provide for the inclusion of a Bill of Quantities (otherwise known as the pricing document) as a Contract Document.</p> <p><u>ARTICLES</u></p> <p><u>The articles of agreement require the contractor and employer to agree to the following:</u></p>                                                                                                                                                                                                                                                                                                                                                        |          | note |             |
| D                  | Article 1: The Contractor shall execute and complete the Works subject to and in accordance with the Contract and shall comply with its other obligations in the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| E                  | Article 2: The Employer shall pay the Contractor the Contract Sum subject to and in accordance with the Contract and shall comply with its other obligations in the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |             |
| F                  | Article 3: The initial Contract Sum is a lump sum and shall only be adjusted when the Contract says so.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| G                  | Article 4: The Contractor has satisfied itself before entering into the Contract of all the circumstances that may affect the cost of executing and completing the Works and of the correctness and sufficiency of the Contract Sum to cover the cost of performing the Contract. The Contractor has included in the initial Contract Sum allowances for all risks, customs, policies, practices, and other circumstances that may affect its performance of the Contract, whether they could or could not have been foreseen, except for events for which the Contract provides for adjustment of the initial Contract Sum. | 1        | item |             |
| H                  | Article 5: The Contract consists of the following documents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | item |             |
| I                  | the agreement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
| J                  | the Contractors tender and the Letter of Acceptance and any post- tender clarifications listed in it                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
| K                  | the Conditions of Contract and completed Schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
| L                  | the Works Requirements, the PSDP plan, the completed Pricing Document and the Form of Tender & Schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
|                    | <p><u>CONDITIONS</u></p> <p><u>A schedule of the clause headings of the Conditions of Contract are set out hereunder for pricing :-</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| M                  | 1. THE CONTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |             |
| N                  | 1.1 Definitions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |             |
| O                  | 1.2 Interpretation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| P                  | 1.3 Inconsistencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| Q                  | 1.4 Pricing Document and Works Proposals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |
| R                  | 1.5 Performance Bond                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
| S                  | 1.6 Reliance documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
| T                  | 1.7 Joint Ventures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |

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| Description        |                                                                                                                        | Quantity    |      | Rate | Total (€) |
|--------------------|------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (06) PRELIMINARIES |                                                                                                                        | (Continued) |      |      |           |
| A                  | 1.8 Assignment                                                                                                         |             |      |      |           |
| B                  | 1.9 Miscellaneous                                                                                                      |             |      |      |           |
| C                  | 1.10 Background Information                                                                                            |             |      |      |           |
| D                  | 2.0 THE LAW                                                                                                            | 1           | item |      |           |
| E                  | 2.1 Law governing the Contract                                                                                         |             |      |      |           |
| F                  | 2.2 Compliance with Legal Requirements                                                                                 |             |      |      |           |
| G                  | 2.3 Consents                                                                                                           |             |      |      |           |
| H                  | 2.4 Project Supervisor                                                                                                 |             |      |      |           |
| I                  | 2.5 Safety, Health and Welfare at Work Act 2005 and Safety, Health and Welfare at Work (Construction) Regulations 2013 |             |      |      |           |
| J                  | 2.6 Ethics in Public Office                                                                                            |             |      |      |           |
| K                  | 2.7 Legal Opinion                                                                                                      |             |      |      |           |
| L                  | 2.8 Data Protection                                                                                                    |             |      |      |           |
| M                  | 3.0 LOSS, DAMAGE AND INJURY                                                                                            | 1           | item |      |           |
| N                  | 3.1 Employer's Risks of Loss and Damage to the Works                                                                   |             |      |      |           |
| O                  | 3.2 Care of the Works                                                                                                  |             |      |      |           |
| P                  | 3.3 Insurance of the Works and Other Risk Items                                                                        |             |      |      |           |
| Q                  | 3.4 Contractor's Indemnity                                                                                             |             |      |      |           |
| R                  | 3.5 Employer's Indemnity                                                                                               |             |      |      |           |
| S                  | 3.6 Public Liability and Employer's Liability Insurances                                                               |             |      |      |           |
| T                  | 3.7 Professional Indemnity Insurance                                                                                   |             |      |      |           |
| U                  | 3.8 Existing Facilities and Use or Occupation by Employer                                                              |             |      |      |           |
| V                  | 3.9 General requirements concerning insurance                                                                          |             |      |      |           |
| W                  | 3.10 Limitation on liability                                                                                           |             |      |      |           |
| X                  | 4.0 MANAGEMENT                                                                                                         | 1           | item |      |           |
| Y                  | 4.1 Co- operation                                                                                                      |             |      |      |           |
| Z                  | 4.2 Contractor's Representative and Supervisor                                                                         |             |      |      |           |
| AA                 | 4.3 Employer's Representative                                                                                          |             |      |      |           |
| AB                 | 4.4 Employer's Representative's Communications                                                                         |             |      |      |           |
| AC                 | 4.5 Instructions                                                                                                       |             |      |      |           |
| AD                 | 4.6 Works Proposals                                                                                                    |             |      |      |           |
| AE                 | 4.7 Required Contractor Submissions                                                                                    |             |      |      |           |
| AF                 | 4.8 Value Engineering                                                                                                  |             |      |      |           |
| AG                 | 4.9 Programme                                                                                                          |             |      |      |           |
| AH                 | 4.10 Progress Reports                                                                                                  |             |      |      |           |
| AI                 | 4.11 Notice and time for Employer's obligations                                                                        |             |      |      |           |
| AJ                 | 4.12 Documents                                                                                                         |             |      |      |           |
| AK                 | 4.13 Contractor's Management                                                                                           |             |      |      |           |
| AL                 | 4.14 Communications                                                                                                    |             |      |      |           |

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Pricing Document

| Description        |                                                                  | Quantity    |      | Rate | Total (€) |
|--------------------|------------------------------------------------------------------|-------------|------|------|-----------|
| (06) PRELIMINARIES |                                                                  | (Continued) |      |      |           |
| A                  | 4.15 Meetings                                                    |             |      |      |           |
| B                  | 4.16 Confidentiality and Secrecy                                 |             |      |      |           |
| C                  | 4.17 Contractor's Things Not to be Removed                       |             |      |      |           |
| D                  | 4.18 Contractor's Documents                                      |             |      |      |           |
| E                  | 5.0 CONTRACTORS PERSONNEL                                        | 1           | item |      |           |
| F                  | 5.1 Contractor's Personnel to carry out Contractor's Obligations |             |      |      |           |
| G                  | 5.2 Qualifications and Competence                                |             |      |      |           |
| H                  | 5.3 Pay and Conditions of Employment                             |             |      |      |           |
| I                  | 5.4 Subcontractors and Specialists                               |             |      |      |           |
| J                  | 5.5 Collateral Warranties                                        |             |      |      |           |
| K                  | 5.6 Removal of Workers                                           |             |      |      |           |
| L                  | 5.7 Weekly Labour Records                                        |             |      |      |           |
| M                  | 5.8 Ancillary Certificates                                       |             |      |      |           |
| N                  | 6.0 PROPERTY                                                     | 1           | item |      |           |
| O                  | 6.1 Ownership of Work Items                                      |             |      |      |           |
| P                  | 6.2 Infringement of Property Rights                              |             |      |      |           |
| Q                  | 6.3 Works Requirements                                           |             |      |      |           |
| R                  | 6.4 Rights in Contractor's Documents                             |             |      |      |           |
| S                  | 7.0 THE SITE                                                     | 1           | item |      |           |
| T                  | 7.1 Lands made available for the Works                           |             |      |      |           |
| U                  | 7.2 Trespassers                                                  |             |      |      |           |
| V                  | 7.3 Contractor Responsible for all Site Operations               |             |      |      |           |
| W                  | 7.4 Services for Employer's Facilities                           |             |      |      |           |
| X                  | 7.5 Security and Safety of the Site and Nuisance                 |             |      |      |           |
| Y                  | 7.6 Other Contractors                                            |             |      |      |           |
| Z                  | 7.7 Setting Out the Works                                        |             |      |      |           |
| AA                 | 7.8 Archaeological Objects and Human Remains                     |             |      |      |           |
| AB                 | 7.9 Access and Facilities                                        |             |      |      |           |
| AC                 | 7.10 Condition of site on Completion                             |             |      |      |           |
| AD                 | 7.11 Working Times                                               |             |      |      |           |
| AE                 | 8.0 QUALITY, TESTING AND DEFECTS                                 | 1           | item |      |           |
| AF                 | 8.1 Standards of Workmanship and Works Items                     |             |      |      |           |
| AG                 | 8.2 Quality Assurance                                            |             |      |      |           |
| AH                 | 8.3 Inspection                                                   |             |      |      |           |
| AI                 | 8.4 Tests                                                        |             |      |      |           |
| AJ                 | 8.5 Defects                                                      |             |      |      |           |
| AK                 | 8.6 Defects Period                                               |             |      |      |           |
| AL                 | 8.7 Defects Certificate                                          |             |      |      |           |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
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| Description        |                                                                          | Quantity | Rate | Total (€)   |
|--------------------|--------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                          |          |      | (Continued) |
| A                  | 9.0 TIME AND COMPLETION                                                  | 1        | item |             |
| B                  | 9.1 Starting Date                                                        |          |      |             |
| C                  | 9.2 Suspension                                                           |          |      |             |
| D                  | 9.3 Delay and Extension of Time                                          |          |      |             |
| E                  | 9.4 Programme Contingency                                                |          |      |             |
| F                  | 9.5 Omissions and Reduction of Time                                      |          |      |             |
| G                  | 9.6 Substantial Completion                                               |          |      |             |
| H                  | 9.7 Taking Over Part of the Works                                        |          |      |             |
| I                  | 9.8 Liquidated Damages                                                   |          |      |             |
| J                  | 10.0 CLAIMS AND ADJUSTMENTS                                              | 1        | item |             |
| K                  | 10.1 Compensation Event                                                  |          |      |             |
| L                  | 10.2 Contractor to Pay Employer's Cost of Checking Quantities            |          |      |             |
| M                  | 10.3 Contractor Claims                                                   |          |      |             |
| N                  | 10.4 Proposed Instructions                                               |          |      |             |
| O                  | 10.5 Employer's Representative's Determination                           |          |      |             |
| P                  | 10.6 Adjustments to the Contract Sum                                     |          |      |             |
| Q                  | 10.7 Delay Cost                                                          |          |      |             |
| R                  | 10.8 Not Used                                                            |          |      |             |
| S                  | 10.9 Employer's Claims                                                   |          |      |             |
| T                  | 11.0 PAYMENT                                                             | 1        | item |             |
| U                  | 11.1 Interim Payment                                                     |          |      |             |
| V                  | 11.2 Unfixed Works Items                                                 |          |      |             |
| W                  | 11.3 Retention                                                           |          |      |             |
| X                  | 11.4 Full payment                                                        |          |      |             |
| Y                  | 11.5 Final Statement                                                     |          |      |             |
| Z                  | 11.6 Time for Payment and Interest                                       |          |      |             |
| AA                 | 11.7 Value Added Tax                                                     |          |      |             |
| AB                 | 11.8 Withholding Tax                                                     |          |      |             |
| AC                 | 12.0 TERMINATION                                                         | 1        | item |             |
| AD                 | 12.1 Termination on Contractor Default                                   |          |      |             |
| AE                 | 12.2 Consequences of Default Termination                                 |          |      |             |
| AF                 | 12.3 Suspension by the Contractor                                        |          |      |             |
| AG                 | 12.4 Termination by the Contractor                                       |          |      |             |
| AH                 | 12.5 Termination at Employer's Election                                  |          |      |             |
| AI                 | 12.6 Consequences of Termination by Contractor or at Employer's Election |          |      |             |
| AJ                 | 12.7 Survival                                                            |          |      |             |
| AK                 | 12.8 Payment                                                             |          |      |             |
| AL                 | 12.9 Reference to Conciliation                                           |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                         |          |      | (Continued) |
| A                  | 13.0 DISPUTES                                                                                                                                                                                           | 1        | item |             |
| B                  | 13.1 Dispute Management Procedure                                                                                                                                                                       |          |      |             |
| C                  | 13.2 Conciliation                                                                                                                                                                                       |          |      |             |
| D                  | 13.3 Adjudication                                                                                                                                                                                       |          |      |             |
| E                  | 13.4 Arbitration                                                                                                                                                                                        |          |      |             |
| F                  | 13.5 Jurisdiction                                                                                                                                                                                       |          |      |             |
| G                  | 13.6 Agent for Service                                                                                                                                                                                  |          |      |             |
| H                  | 13.7 Continuing obligations                                                                                                                                                                             |          |      |             |
| I                  | COVID- 19 MANDATORY CLOSURE                                                                                                                                                                             |          |      |             |
| J                  | 14.1 Covid- 19 Definitions                                                                                                                                                                              |          |      |             |
| K                  | 14.2 Covid- 19 General Provisions                                                                                                                                                                       |          |      |             |
| L                  | 14.3 Covid- 19 Costs                                                                                                                                                                                    |          |      |             |
| M                  | PRICE VARIATION                                                                                                                                                                                         | 1        | item |             |
| N                  | 15.1 Definitions                                                                                                                                                                                        |          |      |             |
| O                  | 15.2 Contract Sum Adjustment                                                                                                                                                                            |          |      |             |
| P                  | 15.3 Proportions                                                                                                                                                                                        |          |      |             |
| Q                  | 15.4 Change in Law                                                                                                                                                                                      |          |      |             |
| R                  | 15.5 Failure to commence on Time                                                                                                                                                                        |          |      |             |
| S                  | 15.6 Failure to Complete on Time                                                                                                                                                                        |          |      |             |
| T                  | 15.7 Excluded Amounts                                                                                                                                                                                   |          |      |             |
| U                  | 15.8 Revisions of Index Figures                                                                                                                                                                         |          |      |             |
| V                  | 15.9 Permitted Increases and Permitted Decreases for Material Categories and Fuel Categories                                                                                                            |          |      |             |
| W                  | 15.10 Adjustments for Labour                                                                                                                                                                            |          |      |             |
| X                  | 15.11 Efficiency                                                                                                                                                                                        |          |      |             |
| Y                  | Appendices to Clause 15                                                                                                                                                                                 |          |      |             |
| Z                  | Appendix 1 Definitions                                                                                                                                                                                  |          |      |             |
| AA                 | Appendix 2 Permitted Increases and Decreases for Materials and Fuel                                                                                                                                     |          |      |             |
| AB                 | Appendix 3 Fuel                                                                                                                                                                                         |          |      |             |
|                    | <u>SCHEDULE PART 1</u>                                                                                                                                                                                  |          |      |             |
|                    | <u>The completed Schedule: Part 1 of the Schedule is contained in the Form of Tender. The Contractor shall include for all costs associated with complying with the completed Schedule: Part 1.</u>     |          |      |             |
| AC                 | Part 1 Fii; Ancillary Certificates will be required from all but not limited to the list of Contractor's Personnel in Schedule Part 1 F(ii)                                                             | 1        | item |             |
| AD                 | Part 1G; Substantial completion dates shall be as follows:                                                                                                                                              | 1        | item |             |
| AE                 | ^^^^Phase 1: Aras An Chontae Architects Office shall be 14 calender weeks or 91 calender days from 'starting date' as defined in the contract with liquidated and ascertained damages of €1,500 per day |          |      |             |
| AF                 | ^^^^Phase 2: Aras An Chontae Annex Building shall be 17 calender weeks or 119 calender days from 'starting date' as defined in the contract with liquidated and ascertained damages of €1,500 per day   |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (Continued) |      |      |           |
| A                  | ^^^^^Phase 3: Aras An Chontae Headquarters shall be 37 calendar weeks or 248 calendar days from 'starting date' as defined in the contract with liquidated and ascertained damages of €1,500 per day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |      |      |           |
| B                  | Part 1H; Early Completion: The Employers Representative is required to issue the certificate of Substantial Completion if the Works or a Section reaches Substantial Completion before its Date for Substantial Completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |           |
| C                  | Part 1I; Defects Period: The initial Defects Period is one year from the date of Substantial Completion of the Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |           |
| D                  | Part 1J; Sub- clause 5.3.3A(2) for random checks for employment records will form part of the contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1           | item |      |           |
| E                  | Part 1K: Contractor is to include for all costs associated with the allocation of risks for delay events, compensation events, delay costs and Adjustments in accordance with the schedule included in the Volume B form of tender and schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1           | item |      |           |
| F                  | Part 1K: Item 17; A difference between the Contract value of the Works according to the quantities and descriptions in the Bill of Quantities and the Contract value of the Works described in the Works Requirements, because the Pricing Document when compared with the Works Requirements, includes an incorrect quantity or, includes an item that that is not included in the Works Requirements or, excludes an item that is included in the Works Requirements or, gives an incorrect item description AND the difference for an item in, or that should have been in, the Pricing Document is more than €500.- the beforementioned scenario constitutes a compensation event but not a delay event as defined in the contract; Contractor to include for all costs associated with the allocation of this risk | 1           | item |      |           |
| G                  | Part 1K: In sub- clause 9.4 the programme contingency is 10 Site Working Days of delay caused by Compensation Events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |           |
| H                  | Part 1L: Retention percentage is 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1           | item |      |           |
| I                  | Part O: Copyright and all other rights in all documents and works proposals prepared by the Contractor in order to comply with the works transfers to the employer in accordance with 6.4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |           |
|                    | <u>SCHEDULE PART 2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |      |      |           |
| J                  | The Contractor shall also include for completing and returning with his tender package the Schedule Part 2 contained in the Form of Tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |           |
|                    | <u>BILL OF QUANTITIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |      |      |           |
| K                  | This Elemental Bill of Quantities has been measured in accordance with the Agreed Rules of Measurement (ARM 4) and ARM 4 Supplements 1 & 2 as prepared by the Joint Committee established by the Construction Industry Federation and the Society of Chartered Surveyors; any differences in the method of measurement are identified within the preambles and amendments to ARM included in the BQ and by additional measurement notes included at the beginning of each element                                                                                                                                                                                                                                                                                                                                       |             | note |      |           |
| L                  | The Bill of Quantities is set out in Elemental format in accordance with the National Standard Building Elements, 3rd edition, 1993 and published by An Foras Forbartha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | note |      |           |
| M                  | The Contractor at the time of tendering, must furnish the Bill of Quantities fully priced in a non- editable format such as PDF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | note |      |           |
| N                  | No Tenderer will be remunerated for any trouble or expense incurred in the preparation of his tender and the lowest tender will not necessarily be accepted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | note |      |           |
| O                  | Costs for items which are not priced shall be deemed to be included in other priced items in the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | note |      |           |
| P                  | Please note that in accordance with the Construction Industry Council (CIC) Practice Note CIC- 1/2000 this Bill of Quantities must be priced in Euro only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | note |      |           |
| Q                  | The Contractor will be deemed to have included in his tender for all Customs and other duties legally payable at the Designated Date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | note |      |           |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      | (Continued) |
| A                  | The Bill of Quantities shall not be used for ordering of materials. The Contractor shall take his own measurements on site and from the drawings for the ordering of materials<br><u>EXTENSION OF TIME</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | item |             |
| B                  | The Contract provides for extension of time for legitimate causes. To enable the Contractor to demonstrate the legitimacy of causes for which he makes claims for such extension, he must present his time schedule, in the form of a Bar Chart and accompanied by the Network Analysis to the Employer's Representative. Operations which cannot be carried out continuously by the same group of workmen must not be shown as one activity on this bar chart. Each time any delay is awarded by the Employer's Representative the bar chart must be amended by the Contractor and presented again in its revised form. This must also be done whenever the current bar chart is rendered obsolete due to any circumstances.<br><u>LOCAL AUTHORITY FEES &amp; CHARGES</u>                                         | 1        | item |             |
| C                  | The contractor shall include for all costs associated with local authority fees and charges associated with compliance with the works requirements including for the obtaining of all necessary licences, permissions and certificates from the local authority for hoarding, road closures, parking bay closures, waste disposal and any other requirement as a result of completing the works in accordance with the Works Requirements                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| D                  | The Contractor shall pay and indemnify the Employer against liability in respect of any local authority fees or charges legally demandable under any regulation and/or bye-law of any Local Authority or Public Service Company relating to the works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |             |
| E                  | The Contractor must obtain permission from the relevant Local Authority to enable him to make connections to the public mains sewer, water and power and pay all costs and charges in connection with same and make good all work disturbed to the satisfaction of the Local Authority Engineers and ER<br><u>OBLIGATIONS &amp; RESTRICTIONS IMPOSED BY THE EMPLOYER</u><br><u>Access to and possession or use of the site</u>                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |             |
| F                  | Access to the site will be as shown on the MosArt drawing 02-ST-DR-A-0001-D2, 02-ST-DR-A-0002-D2, 02-ST-DR-A-0003-D2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |             |
| G                  | During the execution of works for each phase, the works area must not be used for any purpose other than carrying out the works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| H                  | Access to areas outside of the site boundary must be arranged in advance with the Employer and the Architect and are subject to restrictions including but not limited to timing, working methods, dust, waste, debris and noise control measures and the advance submittal and sign-off by the ER of detailed method statements for any proposed works                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
| I                  | The Employer and its professional advisors may by not less than 48 hours prior notice in writing to the Contractor enter any part of the site for the purpose of showing the Building to any third party nominated by the Employer at its sole discretion provided such entry does not interfere with or delay the Works; the contractor shall include here for any costs for compliance with this condition                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| J                  | The contractor shall prepare a project traffic management plan to be agreed in writing with the Employer and ER before the mobilisation to site; this plan shall be detailed in nature and set out the necessary access arrangements for both pedestrian and vehicular traffic accessing the site, including measures to be put in place at the access points to the site from the Delvin Road and any proposed measures to be put in place for the safety of staff, personnel and traffic accessing the other buildings located across the road from the proposed site; this plan shall also include proposed parking arrangements for deliveries and site personnel; the contractor shall include for all costs associated with the traffic management plan including it's management and continuous review here | 1        | item |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      | (Continued) |
| A                  | Contractors personnel are required to only use the agreed designated access routes and the Contractor is required to use appropriate directional and safety signage to ensure that all personnel visiting the site and deliveries to the site are fully aware of the access routes; The Contractor is required to maintain these access routes and signage in a suitable and safe condition for the duration of the contract                                                                                                                                                                                                                                                                           | 1        | item |             |
| B                  | All traffic movement into and out of the site compound area and the site itself should be managed by a banksman with priority at all times given to the public; the contractor should include for all costs associated with this requirement here<br><u>Deliveries &amp; parking</u>                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| C                  | All deliveries are to be taken directly to the site compound and under no circumstances are any items to be left stored in areas outside of the site; all deliveries must be made to site within normal working hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| D                  | During construction the contractor shall provide off- carriageway parking for all traffic and personnel associated with the proposed works including delivery and service vehicles/trucks within the site boundary; under no circumstances will contractor personnel vehicles or deliveries be allowed to park outside of the site boundary                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
| E                  | Parking along the sides of the public roads or within the existing site but outside the site compound area parking areas is strictly prohibited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| F                  | The Contractor is allow here for all costs associated with the requirements for cranes and other hoisting plant and equipment on site for the works and for compliance with the requirements and restrictions set out in the works requirements<br><u>Limitations on working space</u>                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | item |             |
| G                  | The contractor shall use the site solely for the purpose of constructing and completing the work and for no other purpose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| H                  | The Contractor shall at all times during the execution, completion and maintenance of the works keep open and free from obstruction or nuisance of any description, all existing car- parks, roads, laneways, footpaths or other means of communication within, adjacent to or near the site or affected by the works, and shall keep free from obstruction all open spaces in the vicinity of the works other than the space allotted to him within the site boundary. The Contractor shall so arrange to carry out the work in a manner that will cause the least possible interference with the flow of traffic on all existing routes. Compliance with this requirement will be strictly enforced. |          | item |             |
| I                  | The contractor shall note that a 'Permit to Work' system will be in operation for any works required outside of the site boundary; the contractor is to obtain permission from the ER if it is necessary to obtain access outside the designated site boundary for any purpose in connection with the works and to indemnify and insure against all charges arising therefrom<br><u>Limitations on working hours</u>                                                                                                                                                                                                                                                                                   | 1        | item |             |
| J                  | The contractor should note that the official allowable working hours for the project are 8AM - 6PM from Monday to Friday ; no work shall be allowed on bank holidays and Public Holidays. Any works proposed to be completed outside of these working hours must have prior approval by the ER through the method statement and permit to work systems<br><u>The Use or disposal of material found on site</u>                                                                                                                                                                                                                                                                                         | 1        | item |             |
| K                  | If any fossils, coins, antiquities, monuments or other items of value or of archaeological or geological interest or human remains are discovered on or adjacent to the Site unless the Works Requirements say otherwise, the Contractor shall not disturb them, but shall take all necessary steps to preserve them, and shall promptly notify the ER [and comply with any instructions]. As between the Parties, these items shall be the Employers property.                                                                                                                                                                                                                                        | 1        | item |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | All waste or materials of no value generated or found on site during construction, including surplus excavation materials, shall be taken off site and only recovered or disposed of at an authorised waste facility with a waste licence or permit in accordance with Waste Management Acts 1996 and 2008 (excluding excavated material retained for reuse on site)<br><br><u>Site Sign Board</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 item   |      |             |
| B                  | Design, supply and installation of a 3m high x 2m wide site sign raised 1m high from ground level & associated structural steel frame and concrete foundation bases; the contractor should submit the proposed image/logo layout of this sign board for approval to the ER prior to commencement of the works on site; include for all costs associated with the temporary works design certificate, erection and dismantling and removal on completion of the works of this temporary sign as per details and layouts as detailed in MosArt works requirements<br><br><u>Hoardings, fences, screens, temporary roofs, temporary name boards and advertising rights.</u>                                                                                                                                                                                                                                                                                         | 1 item   |      |             |
| C                  | The Contractor is to provide for heras fencing and suitable privacy netting to isolate and secure the site boundary until the permanent works requirements perimeter fencing is in place; this fencing should include for sufficient measures for security and visual intrusion and to prevent trespass; the tenderer is to include for all costs associated with these works here                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 item   |      |             |
| D                  | The hoarding is to be erected in demarcated areas as indicated on Mosart drawing 0001- D2- P01, 0002- D2- P01, 0003- D2- P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| E                  | The hoarding shall be provided for the duration of the works for each phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 item   |      |             |
| F                  | The perimeter fencing should have a lockable secure access gate suitable for plant and machinery which can be secured when the site is unoccupied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| G                  | The contractor shall not display nor permit others to display any advertisements on or about the works or site without the prior written consent of the ER<br><br><u>The maintenance of existing services on or over the site</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| H                  | The Contractor is to carry out a full services survey of the site prior to commencing works to confirm locations of utilities if available further to survey contractor may connect to existing water and foul sewer connections for the construction works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| I                  | Provide for the maintenance of all live drainage, water, gas, communication and other mains and power, data and fire safety services on or over the site and for any temporary re- routing for the Contractor's convenience; for details of existing site utilities please see drawings issued for information as part of the tender package and further details included within the PSDP preliminary safety and health plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| J                  | The site may contain various services which will have to be diverted. Prior to commencing work on site the Contractor shall agree a Programme for carrying out the diversion work for all cables and services. No Claim for extension of time or disruption will be entertained arising from the Contractor's failure to make suitable arrangements with the Employer and all Services Authorities involved in this regard. The Contractor shall clearly mark all cables and pipes and protect before moving or diverting. The Contractor is to include for giving notices to the appropriate Authorities for disconnection and reconnection of services and all costs in connection therewith. If any of the services to adjacent buildings are interfered with or damaged then the Contractor will be required to pay all costs in connection therewith. All existing live services which cross the site are to be maintained during the execution of the work | 1 item   |      |             |
| K                  | The Contractor shall keep detailed written records of any areas opened up and testing carried out. These records are to have a written description of the relation to existing elements of the structure. Additionally, details of what was discovered and the procedure that followed as a result. These records to be handed over to the Employer's Representative and Quantity Surveyor at site meetings.<br><br><u>Maintenance of specific temperature, humidity and dust levels.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 item   |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      | (Continued) |
| A                  | The Contractor shall maintain suitable specific temperature and humidity levels and prepare all surfaces adequately for the correct installation of all materials in accordance with the various manufacturer's installation and application instructions and as per the Architect's and Engineers specification throughout the Contract duration; this includes but is not limited to the pouring of concrete works, the application of screeds and compounds, the laying of floor finishes and the application of wall, ceiling and roof finishes; the tenderer should include for all costs associated with compliance with these requirements here | 1        | item |             |
| B                  | The Contractor shall include and be deemed to have included within his project programme for sufficient drying times for materials installed, such as but not limited to, concrete and screeds in order to meet programme dates for installation/application of finishes in accordance with the finishes materials manufacturer's guidelines; any remedial works required to achieve the required humidity levels shall be at the contractor's own cost                                                                                                                                                                                                | 1        | item |             |
| C                  | The Contractor shall put in place measures to reduce the possibility of spread of dust and debris throughout the site, the building under construction and most specifically to areas outside of the site boundary; the Contractor should include for all costs associated with compliance with these requirements here; any requirements to clean areas outside of the site as a result of the escape of debris or waste from the site will be at the contractor's cost                                                                                                                                                                               | 1        | item |             |
| D                  | The Contractor is to include here for cleaning of the campus perimeter road and all access routes to the site with a roadsweepers as and when required to maintain all campus thoroughfares in a clean condition; During times of inclement weather during all works phases cleaning must be undertaken on a daily basis<br><u>Temporary accommodation and facilities including heating, lighting, furnishing and attendance</u>                                                                                                                                                                                                                       | 1        | item |             |
| E                  | The Contractor is to provide a suitable area and furnishings within the site or site compound for site meetings for 15 people complete with table, chairs, cork boards for the erection of current relevant drawings for reference and a tea-station; the accommodation should include adequate heating, lighting, ventilation and furnishings; the accommodation should be kept clean for the works; tender is to include for all costs associated with compliance with these requirements here<br><u>Provision of connections to voice and data communications systems for use of the Employer</u>                                                   | 1        | item |             |
| F                  | The Contractor is to be include for the provision and maintenance of WIFI facilities suitable for business use for the use of the Employer and its agents when attending the site and compound area for meetings or other business; the contractor shall include for the supply, installation and connection of such a facility and pay all costs and charges associated with the provision of facility for the Employer's agents for the duration of the works<br><u>Periodic usage and access charges on voice and data communications systems for use of the Employer</u>                                                                           | 1        | item |             |
| G                  | The Contractor shall make the beforementioned voice, data and wifi available for the use of the Employer and the design team at his own cost<br><u>Any other obligation or restriction</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| H                  | The Contractor shall inform the Employer's Representative at least five working days before the proposed date for commencement of work on site<br><u>Building Control Regulations 2014</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| I                  | The contractor shall make himself aware of and satisfy all the requirement under the new building control regulations as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| J                  | The inspection requirements set out in this document do not in any way relieve, replace, or reduce the builders duty to supervise the works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| K                  | Coordination of tests, inspections & records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| L                  | the appointed Builder shall meet and coordinate and update the Inspection Notification Framework and preliminary Inspection Plan with the builders construction programme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | note |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                           | Quantity | Rate | Total (€)   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                  | the Preliminary Inspection Plan is updated to show the agreed inspection milestones                                                                                                                                                                                                                                                                                       |          | note |             |
| B                  | all elements identified in the Inspection Notification Framework to be made available for inspection at each milestone (a) complete, (b) not concealed (c) safely accessible.                                                                                                                                                                                             |          | note |             |
| C                  | the Builder shall facilitate random inspections by the Assigned Certifier or Ancillary Certifiers as if such inspections were identified in the Inspection Notification Framework.                                                                                                                                                                                        |          | note |             |
| D                  | the Builder to provide in a timely manner all certificates and tests for materials, products and assemblies                                                                                                                                                                                                                                                               |          | note |             |
| E                  | Advance notice and time for inspections:                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| F                  | due consideration shall be given by the Builder for inspection notices . No claims for extension of time or financial claims shall be considered for delays arising out of inspection or re- inspection requirements.                                                                                                                                                     |          | note |             |
| G                  | the Builder shall ensure advance notifications are issued with respect to works to be inspected that are identified in the Inspection schedule. The minimum advance notice required for inspection of items of works is 5 working days                                                                                                                                    |          | note |             |
| H                  | Re- Inspections/Follow up inspections                                                                                                                                                                                                                                                                                                                                     | 1        | item |             |
| I                  | the minimum notice required for re- inspection of items of works not complete or requiring remedial works shall be 3 working days.                                                                                                                                                                                                                                        |          | note |             |
| J                  | the Assigned Certifier shall without delay notify the Builder through the CA/ER of any incomplete work at a given milestone identified in the Inspection Notification Framework. Note chain of communication may lead to delays.                                                                                                                                          |          | note |             |
| K                  | the Builder shall diligently ensure that any incomplete areas of given milestones are completed and that such works are kept available for inspection again, or until a record of completion is furnished, as may be required by the Assigned Certifier.                                                                                                                  |          | note |             |
| L                  | the Builder shall diligently ensure that any areas of non compliance are rectified and that such works are kept available for inspection again, or until a record of rectification is furnished, as may be required by the Assigned Certifier.                                                                                                                            |          | note |             |
| M                  | the Builder shall ensure all tests and certificates for materials, components and assemblies listed in the Inspection Notification Framework are undertaken in a timely way. Any test failure shall immediately be made known to the ER/AC, the materials/works in question shall be replaced/rectified and retested undertaken prior to proceeding with subsequent work. |          | note |             |
| N                  | It is the responsibility of the Builder to coordinate and supervise the works and no claim for delay or cost shall arise from the requirement to re- inspect.                                                                                                                                                                                                             |          | note |             |
| O                  | Non- Conformance                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| P                  | Materials & Workmanship- contract clauses                                                                                                                                                                                                                                                                                                                                 |          | note |             |
| Q                  | Contract /Works Requirements- contract clauses                                                                                                                                                                                                                                                                                                                            |          | note |             |
| R                  | Missed Inspections- Ultimately they are recorded on the completed Preliminary Inspection Plan and registered with Building Control.                                                                                                                                                                                                                                       |          | note |             |
| S                  | Builders Progress Records                                                                                                                                                                                                                                                                                                                                                 | 1        | item |             |
| T                  | the Builder shall maintain progress records and inspection records prepared by him prepared in accordance with the Method Statement submitted at tender as set out in this document                                                                                                                                                                                       |          | note |             |
| U                  | the Tenderers shall include in their tender costs for the provision of progress records as the works proceed                                                                                                                                                                                                                                                              |          | note |             |
| V                  | Method of Recording                                                                                                                                                                                                                                                                                                                                                       |          | note |             |
| W                  | Promptly provide a copy to the Assigned Certifier of all progress records and inspection records prepared by the Builder and the Ancillary Certifiers                                                                                                                                                                                                                     |          | note |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      | (Continued) |
| A                  | At completion the Builder shall issue the AC with a copy of the records prepared by the Builder and the Ancillary Certifiers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | note |             |
| B                  | the Builder shall also retain in his own central office all records prepared by the Builder and the Ancillary Certifiers for a minimum period of 6 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | note |             |
| C                  | one hardcopy and/or softcopy of all records shall be issued 5 days in advance of the nominated completion date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | note |             |
| D                  | the record should include evidence of the successful execution of the Builders method statement on supervision including tests, check sheets, photographs and memos. All evidence shall be indexed by location and date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | note |             |
| E                  | acceptance of such records shall not constitute approval or imply that their content has been examined.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | note |             |
| F                  | The tendering contractors shall submit the following documentation as part of their tender. Failure to do so may invalidate the tender:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |             |
| G                  | builders Competence Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | note |             |
| H                  | Sub- Contractor/Specialist Competence (Ancillary Certifiers) Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | note |             |
| I                  | builders Method Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | note |             |
| J                  | Tenderers shall note that Substantial Completion for this contract is contingent upon the successful registration of the works on the Building Control Management System.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| K                  | Tenderers shall note that this project shall require a Prior Notification of Completion to be submitted to the Building Control Authority in advance of completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| L                  | The Builder shall provide 4/6 weeks in advance of the nominated completion date all completed and/or prospective documentation and confirmations for Registration. The Assigned Certifier and the Builder shall cosign the Completion Certificate as set out in Appendix F4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| M                  | The Assigned Certifier and Builder shall then lodge/upload the documentation onto the Building Control Authority system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| N                  | Notwithstanding any statutory duty to retain same, in advance of project completion, the Builder shall issue to the Assigned Certifier a copy of all inspection records retained by the Builder during the course of the project<br><u>Programme of Work</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| O                  | When requested by the Employer's Representative, the lowest evaluated Contractor shall submit, before the 'starting date', a detailed Programme of Work in box chart form for the completion of the works within the date for Substantial Completion. The Contractor is to provide two copies of the programme for the 'Employers Representative', and is to keep one further copy available for inspection in the site office. The Contractor is required to review and update the programme at monthly intervals and modify to take account of circumstances which have affected the programme. Two copies of the revised and updated programme to be issued to the 'Employers Representative'. The Contractor must also submit, at the same time, a detailed network analysis in support of his programme. The Programme should contain details of resources needed for each Phase of the Programme. The Programme of Work must be agreed with the Employer | 1        | item |             |
| P                  | The Contractor must keep the construction programme up to date and make copies available to all members of the design team immediately prior to the site meetings along with supporting network analysis. The programme must include, inter alia, actual activity durations against estimated durations together with particulars of labour, materials, plant resources and the like. Copies of the programme must be displayed in the various site offices.<br><u>Tax Clearance Certificate:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |             |
| Q                  | It will be a condition for the award of Contract that the firm must be able to produce promptly a Tax Clearance certificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | note |             |

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | All Sub- Contractors must produce a C2 Certificate to the Contractor, and be properly registered for V.A.T. before they commence on site<br><u>Dilapidations Survey</u>                                                                                                                                                                                                                                                                                                                          |          | note |             |
| B                  | The Contractor should include here for a full photographic record of existing condition survey to be submitted as a record to the ER prior to commencement of works on site; this record should include evidence of the existing condition of all aspects of the site external pathways, roads and access points; should the need arise this photographic record will be used to assess the requirements for any reinstatement and repairs works on completion of the projects<br><u>Records</u> | 1        | item |             |
| C                  | The Contractor shall provide and retain site records in hardcopy and electronic format each week for the Employer's Representative and Quantity Surveyor and maintain these records for inspection by the ER should the need arise; these include but are not limited to                                                                                                                                                                                                                         | 1        | item |             |
| D                  | A daily record in the form of dockets with printed dates, weights ex pit etc of excavated materials taken from site and all stone materials delivered to site for inclusion in the works                                                                                                                                                                                                                                                                                                         |          | note |             |
| E                  | A daily record of the number and description of tradesmen and labour employed on the works                                                                                                                                                                                                                                                                                                                                                                                                       |          | note |             |
| F                  | A daily record of all plant, i.e. number, type and capacity                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | note |             |
| G                  | A daily record of all materials and goods including name of supplier, delivery docket number etc.                                                                                                                                                                                                                                                                                                                                                                                                |          | note |             |
| H                  | A daily record of weather on an hourly basis, during which time work was prevented by exceptionally bad weather as defined by weather events in the contract documents<br><u>Notice of Completion</u>                                                                                                                                                                                                                                                                                            |          | note |             |
| I                  | Give the Employer's Representative at least three weeks notice of the anticipated dates of Substantial Completion of the whole or parts of the works<br><u>Notice to the Quantity Surveyor</u>                                                                                                                                                                                                                                                                                                   |          | note |             |
| J                  | The Contractor is to produce photographic record of any work, prior to being covered up, which may lead to the instruction of a Change Order by the Employer's Representative; All photographs are to be date and time recorded.<br><u>Tests</u>                                                                                                                                                                                                                                                 | 1        | item |             |
| K                  | Materials Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| L                  | The Contractor shall make such standard tests of stone fill, concrete, blockwork, mortar, steelwork and other materials as set out in the Specification or as the Employer's Representative may direct and should include for all costs associated with the testing and certification of materials used for the works                                                                                                                                                                            | 1        | item |             |
| M                  | The cost of all on and off site tests, all testing fees and charges and any apparatus required, or the use of such shall be borne by the Contractor. The Contractor shall also bear the cost of forming concrete test cubes and transporting the cubes for testing.<br><u>Testing</u><br><u>Air Permeability</u>                                                                                                                                                                                 | 1        | item |             |
| N                  | The contractor is to include here for all costs associated with the management coordination and implementation of a quality control system in accordance with MosArt preliminaries to ensure the final Air Permeability pressure test to IS EN 13829:2000 achieves the required air leakage rate not exceeding 5m3/(h.m2) at an internal to external pressure difference of 50 pascals for the areas of the works                                                                                | 1        | item |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      | (Continued) |
| A                  | The Contractor is to include for all costs associated with Prototype tests of 2 sample rooms within the main building on the external envelope, including typical construction junctions and for the provision of feedback in the form of a report from the airtightness specialist to the project team prior to the main air permeability test                                                                                                        | 1        | item |             |
| B                  | The Contractor is to include for all costs associated with the main building air permeability test in strict accordance with BS: EN 13829:2001 'Determination of air permeability of buildings , fan pressurisation method'; ATTMA TS1 'Measuring air permeability of building envelopes'; CIBSE TM:23 of 2002 Testing Building for Air Leakage; INAB ISO:17025 laboratory requirements<br><u>Building Energy Rating</u>                               | 1        | item |             |
| C                  | The Contractor is to provide and include for all costs here for a commercial building energy rating assessment by a person approved by the ER registered with the National Register of BER Assessors before Substantial Completion                                                                                                                                                                                                                     | 1        | item |             |
| D                  | The Contractor is to include for all costs associated with the appointment of a specialist Thermal imaging company approved by the ER and accredited by INAB to ISO 17025 with it's associated personnel proposed for the project to be ITC level 1, 2 and 3 certified Thermographers for Building defect analysis and electrical fault analysis                                                                                                       | 1        | item |             |
| E                  | The Contractor is to include for all costs associated with compliance with MosArt preliminaries relating to the site visits, surveys, testing, investigation & reporting requirements of the INAB accredited Thermal Imaging testing specialists<br><u>Air-tightness testing</u>                                                                                                                                                                       | 1        | item |             |
| F                  | The Contractor is to include for all costs associated with the appointment by the contractor of a building airtightness specialist approved by the design team who shall be accredited by INAB to ISO 17025 as a testing laboratory for commercial building airtightness testing                                                                                                                                                                       | 1        | item |             |
| G                  | The Contractor is to include for all costs associated with the building airtightness specialist approved by the design team complying with the initial site survey, recommendations and report requirements, the minimum 10 site visit inspections & associated reporting requirements and for attendance and input at the proposed design workshops; all costs associated with these requirements are to be included here<br><u>Clearance of Site</u> | 1        | item |             |
| H                  | On completion of the Works and as and when directed by the Employer's Representative, the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and Works perfectly clean and in a workmanlike condition to the satisfaction of the Employer's Representative.<br><u>Work by Utility Providers</u>                               | 1        | item |             |
| I                  | The Contractor will be held responsible for any damage caused through his want of proper care to any of the fittings, equipment or machinery installed by Utility providers or other statutory undertakers and their agents.                                                                                                                                                                                                                           | 1        | item |             |
| J                  | The Contractor shall if required allow access to the site and building for the staff of utility providers or others employed by or acting on behalf of the Employer. He shall also allow access to the employer's staff connected with this work.                                                                                                                                                                                                      | 1        | item |             |
| K                  | Should a recognised and responsible Officer of a Local Authority desire to see the premises, building or documents, the Contractor shall refer this person to the Employer or the Employer's Representative<br>WORKS BY OTHERS ENGAGED DIRECTLY BY THE EMPLOYER                                                                                                                                                                                        | 1        | item |             |
| L                  | ARAS AN CHONTAE<br><u>Coordination and attendances on works to the council chambers and reception area</u>                                                                                                                                                                                                                                                                                                                                             |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      | (Continued) |
| A                  | <p>The Contractor is advised that there may be a separate third- party contractor on- site performing construction works at the Council Chamber area and Reception area concurrently with this project. The Contractor shall facilitate co- operation and coordination with all other contractors to ensure the safe and efficient progress of all works. No claims for additional costs or delays will be considered where they arise from the reasonable presence and activities of other contractors as disclosed herein</p> <p>GENERAL FACILITIES AND OBLIGATIONS</p> <p><u>Supervision and co- ordination of the works</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 item   |      |             |
| B                  | <p>Provide for all necessary supervision and co- ordination of the works by those put forward for the relevant roles in the Contractor SAQ tender document in accordance with the conditions of the contract including the execution of the Project Supervisor Construction Stage role as defined by the Health &amp; Safety and Welfare at Work (Construction) Regulations 2013</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 item   |      |             |
| C                  | <p>The Contractor shall ensure that there are at all times on the site sufficient suitably qualified and experienced staff to supervise and co- ordinate all work carried out by the Contractor and to advise and assist the employer in taking possession of the works.</p> <p><u>Contracts Manager</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 item   |      |             |
| D                  | <p>The Contractor shall immediately on appointment assign a Contracts Manager who shall have a full authority to act on the Contractor's behalf in connection with the Contract. The Contractor shall notify the Employer's Representative of the name of the person so appointed and of his normal place of work. The Contractor may from time to time by further written notice to the Employer's Representative remove any person from his appointment as the Contracts Manager and appoint another person in his place with effect from a date to be specified in the notice. The Contractor shall at all times until the end of the Defects Liability Period ensure that a person is appointed to act as the Contracts Manager.</p> <p><u>Site Foreman</u></p>                                                                                                                                                                                                                                                                                                                                                   | 1 item   |      |             |
| E                  | <p>From the commencement of work at the site until the works have been certified as Substantially Complete, the Contractor shall ensure that some suitable person is employed by him at the Site as Site Manager. The Site Manager shall supervise and co- ordinate all work carried out on the site by the Contractor and receive all instructions given by or on behalf of the Employer's Representative to the Contractor at the site. The Site Manager shall be present at the site throughout normal working hours except when on leave, sick, or absent for reasons connected with the proper performance of this Contract. Whenever the Site Manager is absent from the site during normal working hours, a suitable person shall be appointed to act as his deputy. The Site Manager shall not be employed by the Contractor to do work other than work specifically related to the Contract. The Contractor shall notify the Employer's Representative of the person appointed as Site Manager and shall not change such appointment without the prior written consent of the Employer's Representative.</p> | 1 item   |      |             |
| F                  | <p>The Contractor shall ensure that there are at all times on the site sufficient suitably qualified and experienced staff to supervise and co- ordinate all work carried out by the Contractor and to advise and assist the employer in taking possession of the works.</p> <p><u>Site Services Coordinator/Services Foreman</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 item   |      |             |
| To Collection      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      | (Continued) |
| A                  | From the commencement of work at the site until the works have been certified as Substantially Complete, the Contractor shall ensure the SAQ submitted site services coordinator/services foreman is appointed as full time personnel on the project. The Site Services Coordinator shall supervise and co-ordinate all work carried out on the site by the site electrical contractor and receive all instructions given by or on behalf of the Employer's Representative to the electrical contractor on site. The services coordinator shall be present at the site throughout normal working hours except when on leave, sick, or absent for reasons connected with the proper performance of this Contract. Whenever the services coordinator is absent from the site during normal working hours, a suitable person shall be appointed to act as his deputy. The Contractor shall notify the Employer's Representative of the person appointed as Site Services Coordinator and shall not change such appointment without the prior written consent of the Employer's Representative.<br><u>Safety File</u> | 1 item   |      |             |
| B                  | The Contractor is allow here for all costs associated with the Safety File requirements including the format required, the number of hard and soft copies etc as per the requirements as identified in the PSDP preliminary safety and health plan and as per MosArt preliminaries<br><u>Scaffolding</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 item   |      |             |
| C                  | The Contractor is to price here for all fixed and temporary mobile scaffolding systems associated with the works including bringing to site, erection, certification & sign off by the Structural Engineer, adaption and maintenance as required for the duration of the works and removal on completion<br><u>Plant tools and vehicles</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 item   |      |             |
| D                  | Provide for bringing to site, maintaining on site for the duration of the works and removing on completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 item   |      |             |
| E                  | In the event that a change order is instructed requiring the use of plant and equipment already available on site and in the possession of the contractor and in use for the works requirements no additional costs can be claimed for the cost/rental/lease of the beforementioned plant and equipment; only plant and equipment specifically hired for such a piece of instructed works can be charged for and must be supported by invoices for the hire or charges in relation to the use of such equipment; on a project of this size the contractor will be expected to have sufficient plant and equipment available to him to complete all but very specific technical works outside the normal remit of the contractor's day to day business                                                                                                                                                                                                                                                                                                                                                             | 1 item   |      |             |
| F                  | The Contractor is responsible and should include here for the erection, operation and removal on completion of all cranes and other lifting equipment, temporary or otherwise deemed necessary by the Contractor for completion of the contract; should they be required the Contractor shall plan and execute any crane works in accordance with statutory requirements and codes of practice<br><u>In addition to the general requirement to maintain good records the Contractor is to photograph installations and obtain and maintain records of witnessed tests signed by the Contracts Manager and Architect/Services Engineer for the following elements of works</u>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| G                  | All fire- stopping works prior to the works being closed up including the installation of fire smoke dampers in accordance with the requirements of the Employer and of the fire safety consultant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| H                  | Medical gases installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| I                  | UPS installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 item   |      |             |
| J                  | Fire alarm installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer<br><u>Security</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |

To Collection

Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€)   |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | Provide adequate protection to the site, the works, materials etc. and erect efficient and sufficient guards to prevent unauthorised persons trespassing on the site and for the proper protection of the public and all invitees and licensees of the Employer. Provide all requisite watching and lighting. Safeguard the Works, materials and plant against damage and theft. The Contractor shall be solely responsible for any damage occasioned by want of sufficient watching, lighting and/or protection.                                                                | 1        | item |             |
| B                  | The Contractor is responsible for leaving the works site secure and where appropriate leaving all access and egress routes closed and locked at the end of each day<br><u>Protection of the works from inclement weather</u>                                                                                                                                                                                                                                                                                                                                                     | 1        | item |             |
| C                  | Protect the works from inclement weather as directed or as necessary including all required temporary screens to the openings within the facade or roof as the works proceed<br><u>Water for the works</u>                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| D                  | At present there is no water available on site; the contractor is to include for all costs here associated with permissions, licences etc for a temporary connection to the existing mains for use during the works until the permanent mains connection can be made<br><u>Temporary lighting and power for the works</u>                                                                                                                                                                                                                                                        | 1        | item |             |
| E                  | The contractor shall be solely responsible for the connection, set-up, testing, certification and removal on completion of all equipment & cabling for the necessary temporary power supply to successfully execute the works; The contractor should include within his tender price for all costs associated with setting up, commissioning and certification the temporary power system and the protection of all temporary power cables and the disconnection and removal on completion of the works                                                                          | 1        | item |             |
| F                  | Provide for the installation, maintenance, temporary distribution, payment of charges for current and adaptation of all necessary artificial lighting and power required for each phase of the Works and remove on completion.                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| G                  | At present there is no power available on site; the contractor is to include for all costs here associated with permissions, licences etc for a temporary connection to the existing mains for use during the works until the permanent mains connection can be made; whilst the contractor is awaiting a connection to the a temporary or permanent power supply he shall be deemed to have included for all required temporary generators and fuel and is deemed to have included within his tender for all costs associated with these temporary power supplies for the works | 1        | item |             |
| H                  | The Contractor is required to ensure that any connections made to the mains must be completed, checked and certified by the RECI qualified electrical sub-contractor; the employer will not accept any responsibility contractually or otherwise for the consequences of the failure or restriction of the building mains supply and the Contractor should have a contingency supply ready should any failure or restriction occur<br><u>Temporary roads, hardstandings, crossings and similar items</u>                                                                         | 1        | item |             |
| I                  | Provide for constructing temporary roads, ramps, hardstandings, crossings and similar items as may be necessary<br><u>Temporary accommodation for the use of the Contractor</u>                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| J                  | The contractor shall provide suitable temporary sanitary facilities either within the proposed site or within the site compound and shall temporarily connect these facilities to the existing foul water installation; any such measures and connections must be approved prior to installation by the Employer; the contractor should include for all costs associated with provision, maintenance, management and removal of these sanitary conveniences on completion of the works                                                                                           | 1        | item |             |
| K                  | The contractor shall provide a suitable area within the site compound for the use of site main contractor and sub-contractor personnel as a canteen/lunch break area                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Rate | Total (€)   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      | (Continued) |
|                    | <u>Temporary storage areas including suitable and separate storage for dangerous material and substances</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| A                  | Provide suitable storage areas weathered and secured where necessary for storage of materials liable to injury from exposure or for any dangerous materials such as chemicals or flammable materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| B                  | The Contractor shall provide adequate lock up storage for all materials required by the sub- contractors; the contractor shall be responsible for taking delivery and for safe keeping of such goods until handed over to the Sub- Contractor; any additional special attendances required will be the responsibility of the main Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
|                    | <u>Traffic regulations</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| C                  | The Contractor shall make necessary arrangements with the Garda, Local Authority and Landlord through the Employer and shall comply with their requirements regarding traffic flow, traffic management, parking and any requirements regarding road closures; the contractor is to obtain and comply with the conditions of necessary Road Closure Order(s) required and pay all costs and expenses in connection therewith                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
|                    | <u>Safety Health &amp; Welfare at Work Provisions</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| D                  | The Contractor shall include for complying with the Safety, Health and Welfare at Work Acts and Regulations current at the date of tender. (See also previous clauses in relation to Project Supervisor Construction Stage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
|                    | <u>General fire safety obligations</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |             |
| E                  | The Contractor is to include within his pricing generally and here specifically for all requirements including appointing specialist independent testers, provision of sample fire stopping installations for approval, procedures, inspection, records (including labelled photographs) ,testing, commissioning and independent certification of fire stopping materials, fire dampers, fire collars and their methods of installation in accordance with MosArt Preliminaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |             |
| F                  | The Contractor is required to comply with the CIF & Fire Protection Association, Joint Code of Practice, 'Fire Prevention on Construction Sites' and the requirements set out in the PSDP preliminary safety and health plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| G                  | In addition to statutory requirements, the Contractor shall take special precautions to avoid risk of fire and cease any work involving naked flames or sparks at least 45 minutes before work stops for the day; the contractor shall not permit any accumulation of inflammable liquids and gases onto the works other than that needed for one day's work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| H                  | The Contractor is required to obtain hot works permits before carrying out any hot works and to ensure that the works are carried out strictly in accordance with the provisions of the permit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| I                  | The Contractor is required to install and maintain at his own cost an appropriate number of fire extinguishers and fire points in each of the proposed works areas; these should be maintained to the satisfaction of the ER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| J                  | The contractor shall establish and maintain all elements of the fire stopping works, including the work of subcontractors comply with the specified requirements; the Contractor will be obliged to inspect and record results of every item of fire stopping and all fire dampers; the Employer will engage directly a Fire Safety Engineer to assist with the inspection of the fire stopping; the Contractor is required to assist with this process and shall be required to open up elements of fire stopping randomly selected by the Employer's Fire Safety Engineer; the Contractor is required to maintain full records including location of the works, nature and date of inspections, photographic records, tests undertaken, approvals received, extent of non- compliant work discovered, details of corrective action, name and signatures of persons present during the inspection etc; the Contractor is required to keep these records on site for inspection and provide a detailed record of each installation and inspection as part of the Safety File; tenderers are to include all costs associated with compliance with this instruction here | 1        | item |             |
| K                  | The Contractor is required to carry out the following Employer specific procedures on all fire damper installations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantity |      | Rate | Total (€)   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |      | (Continued) |
| A                  | Verify that the damper is installed in strict accordance with the manufacturer's instructions in order to comply fully with the manufacturer's certification designs and approvals                                                                                                                                                                                                                                                                                              | 1        | item |      |             |
| B                  | Verify that the appropriate electrical connections are made to the damper and that it functions correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                            | 1        | item |      |             |
| C                  | Certify that the BMS connections are made to the damper and are giving the correct and accurate signal to the BMS system and that they function correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                            | 1        | item |      |             |
| D                  | Verify that the fire alarm interface is made and functioning properly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |             |
| E                  | Verify that the fire damper interfaces with the fire alarm strategy and that it functions correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                  | 1        | item |      |             |
| F                  | Maintain records of how each fire damper is installed on drawings and reports, including location, any inspections undertaken, photographic records of each damper both prior to and after fire sealing has been applied and details of how the damper was installed including dimensioned anchors details                                                                                                                                                                      | 1        | item |      |             |
| G                  | When all of the before mentioned actions have been successfully completed and all fire dampers are operating correctly the Contractor will be required to physically operate and demonstrate each damper to the Employer and the Fire Safety consultant by operation of the fire alarm system and not by simulation<br><u>Disbursements arising from the employment of work people</u>                                                                                          | 1        | item |      |             |
| H                  | Provide for all payments required under legislation, working rule agreements and the like affecting labour in force at the Designated Date<br><u>Removing rubbish, protective casings and coverings and cleaning the works on completion</u>                                                                                                                                                                                                                                    | 1        | item |      |             |
| I                  | Contractor to ensure that all loads transported to and from the site but particularly of waste materials are covered and secured                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |             |
| J                  | The Contractor will be required to comply with all statutory waste management and control requirements with regards to the collection and disposal of all waste materials including the maintenance of all permits and receipts for inspection<br><u>Deep Clean</u>                                                                                                                                                                                                             | 1        | item |      |             |
| K                  | The Contractor is required to provide a 'deep clean' of the entire works area on completion of the works and prior to handover of the area to the Employer; the contractor should include for all costs associated with deep cleaning the works here<br><u>Drying the Works</u>                                                                                                                                                                                                 | 1        | item |      |             |
| L                  | Provide for all temporary equipment, fuel and attendance for drying out and controlling the humidity of the works; the permanent heating installation may not be used for this purpose; replace all work damaged by lack of adequate drying and/or humidity control<br><u>Samples / Approvals</u>                                                                                                                                                                               | 1        | item |      |             |
| M                  | The Contractor shall, at his own expense provide and deliver samples of materials at the Architect's offices for approval or at the offices of an approved testing authority as may be directed                                                                                                                                                                                                                                                                                 | 1        | item |      |             |
| N                  | The Contractor shall, at his own expense provide sample panels of floor finishes, skirting, ceiling tiles, joinery, painting (4 no x 1m2 of each paint type), ironmongery and the work of other trades as may be directed by the Architect. (See also specific requirements contained in the Specification); provide at least three 2m x 1m panels of each as may be required, unless otherwise specified; maintain approved samples as controls during the course of the works | 1        | item |      |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€)   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      | (Continued) |
| A                  | Where approval of products or materials is specified, the Contractor shall submit samples or other evidence of suitability and should not confirm orders or use materials until approval has been obtained; approved samples shall be retained on site as directed by the Architect for comparison with products and materials used in the Works and the Contractor shall remove them when no longer required by the Architect<br><br><u>General Items for Convenience in Pricing.</u>                                                                                                                                                                            | 1        | item |             |
| B                  | Pricing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| C                  | The tenderer's costs and charges are to be spread over the items in the Bill of Quantities in a balanced manner so that the rate or price for each item fairly represents his costs and charges for the work etc., described therein. all items which have a bearing on cost included within the preliminaries section of this BQ must be priced; if the tenderer submits an overall price for the preliminaries and noted cost items as 'included' or a derivative thereof he will be required to provide the price breakdown of his preliminaries prior to appointment should he be successful; this will be a condition precedent of the award of the contract | 1        | item |             |
| D                  | The Contractor shall include in his Tender for Value Added Tax; the Contractor shall price and will be deemed to have priced all items in the Bill of Quantities exclusive of Value Added Tax. P.C. Sums and Provisional Sums stated herein are exclusive of Value Added Tax                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| E                  | The method of calculating the appropriate Value Added Tax is set out in the Form of Tender and Value Added Tax should be so calculated and included in the Tender amount; the amount included for VAT will be deemed to be provisional and as such will be the subject of re- calculation in accordance with Government procedures                                                                                                                                                                                                                                                                                                                                | 1        | item |             |
| F                  | The Contractor is to allow for all costs and expenses arising out of the operation of the Industrial Relations Act 1946 to 2004 Employment Equality Act 1998 , the National Minimum Wage Act 2000 and any other provision by State, Tort or Common law or amendment or replacement of existing legislation concerning the employment of labour including any extra payments made for bonus schemes etc                                                                                                                                                                                                                                                            | 1        | item |             |
| G                  | PPE requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| H                  | The Contractor should provide and maintain on site 4 spare sets of PPE for the sole use of the Employer to include ear muffs, hand protection, high visibility waist coats, safety helmets and eye glasses all in accordance with the relevant IS EN guidelines                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| I                  | All contractors and sub- contractors are to wear the relevant PPE (Personal Protective Equipment), including Hard Hats, High Visibility Jackets, Protective Footwear and Protective Eye Wear (when necessary) at all times during the works; the contractor should include for all costs for the provision of such PPE and the management and enforcement of this condition here                                                                                                                                                                                                                                                                                  | 1        | item |             |
| J                  | Proof of vesting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| K                  | The Architect may from time to time ask the Contractor or (through the Contractor) Nominated Sub- Contractors for proof of ownership (free from lien or charge) of any goods or materials delivered to the site to be embodied in the works; if such proof is not forthcoming the Architect will be entitled to withhold certifying payment in respect of the goods or materials in question                                                                                                                                                                                                                                                                      | 1        | item |             |
| L                  | Unsuitability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |
| M                  | If, in the opinion of the Contractor, anything described in the Specification or shown on the Drawings is unsuitable or inconsistent with his guarantees or responsibilities under the Contract, the Contractor shall draw such matters to the attention of the Architect before the submission of tenders or in the case of documents or instructions issued after the time of tendering as soon as practicable and in any case before commencement of any part of the works which might be affected.                                                                                                                                                            | 1        | item |             |
| N                  | Alterations to documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |

To Collection

# Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo

## Pricing Document

| Description        |                                                                                                                                                                                                                                                        | Quantity | Rate | Total (Γ)   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                        |          |      | (Continued) |
| A                  | Any alteration, insertion, or deletion made by the Tenderer to the tender documents, may, at the sole discretion of the Architect, be disregarded and shall not form part of the Contract<br><br><u>Covid 19 Measures</u>                              | 1        | item |             |
| B                  | The contractor is to include for all costs associated with compliance with government guidelines and CIF protocols and methodologies for working on medium sized construction sites including but not limited to the following                         |          |      |             |
| C                  | Temporary wash stations for site personnel and visitors                                                                                                                                                                                                | 1        | item |             |
| D                  | Additional PPE equipment such as face masks, visors and the provision of gloves                                                                                                                                                                        | 1        | item |             |
| E                  | Additional Covid 19 signage requirements                                                                                                                                                                                                               | 1        | item |             |
| F                  | Additional costs associated with administration of contract due to covid 19 methodologies and restrictions on working conditions including additional inductions, tool box talks and other head office administration costs associated with compliance | 1        | item |             |
| G                  | Phased lunch breaks and the provision of additional accommodation for site personnel sanitary conveniences, drying rooms, canteens etc                                                                                                                 | 1        | item |             |
| H                  | Additional dedicated site personnel for covid 19 compliance                                                                                                                                                                                            | 1        | item |             |
| I                  | Provide for compliance with and working methodologys and restrictions in relation to proposed new HSA and CIF guidelines and instructions in relation to the monitoring and prevention of the spread of Covid- 19                                      | 1        | item |             |
| J                  | Any other items the contractor deems a requirement for the project including whilst working indoors when the building is weatherproofed                                                                                                                | 1        | item |             |
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                        |          |      |             |

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Centre, Westport, Co. Mayo  
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| Description                               |  | Quantity    |  | Rate | Total (€) |
|-------------------------------------------|--|-------------|--|------|-----------|
| (06) PRELIMINARIES                        |  | (Continued) |  |      |           |
| COLLECTION                                |  |             |  |      |           |
| Page 5:                                   |  |             |  |      |           |
| Page 6:                                   |  |             |  |      |           |
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| Page 8:                                   |  |             |  |      |           |
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| Page 13:                                  |  |             |  |      |           |
| Page 14:                                  |  |             |  |      |           |
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| Page 16:                                  |  |             |  |      |           |
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| Page 18:                                  |  |             |  |      |           |
| Page 19:                                  |  |             |  |      |           |
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| Page 22:                                  |  |             |  |      |           |
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| Page 25:                                  |  |             |  |      |           |
| Page 26:                                  |  |             |  |      |           |
| Page 27:                                  |  |             |  |      |           |
| (06) PRELIMINARIES<br>Carried to Summary: |  |             |  |      |           |

Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
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| Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (11) DEMOLITIONS AND ALTERATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                  | (11) DEMOLITIONS AND ALTERATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                                  | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                                | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                                | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                                | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                                | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                  | REMOVAL OF EXISTING FURNITURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| F                                | Allow for the temporary decanting, handling, transport, protection, and storage of existing furniture to facilitate the execution of the Works, including loading, off-loading, and safe keeping. Furniture may be stored in accommodation provided by the Employer. Upon completion of the Works, allow for the return, reinstatement, and repositioning of all furniture to its original locations. The Employer reserves the right to nominate a Nominated Subcontractor and/or Named Specialist to undertake the decanting and relocation services.                                                                                          | 1        | item |           |
|                                  | DEMOLITIONS AND ALTERATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                                  | <u>DEMOLITIONS AND ALTERATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                  | <u>Strip out existing metal rainscreen cladding and associated insulation; include for careful disposal offsite as directed by the Client/ER; include for making good; all in accordance with Architects drawings and specification</u>                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                                  | <u>Rainscreen cladding</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| G                                | > 300mm wide; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 591      | m2   |           |
|                                  | <u>Strip out existing aluminium louvres; include for disposal off site as directed by the Client/ER; making good e.m; all in accordance with Architects drawings and specifications</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                                  | <u>Louvres</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| H                                | Louvres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2        | nr   |           |
|                                  | <u>Strip out existing aluminium windows; include for stripping back reveals; include for disposal off site as directed by the Client/ER; include for stripping back internal reveals; making good e.m</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                                  | <u>Windows</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| I                                | windows; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 39       | nr   |           |
| J                                | windows; to Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30       | nr   |           |
| K                                | windows; to Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 158      | nr   |           |

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| Description                      |                                                                                                                                                                                                                                                                                               | Quantity |    | Rate | Total (Γ)   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (11) DEMOLITIONS AND ALTERATIONS |                                                                                                                                                                                                                                                                                               |          |    |      | (Continued) |
|                                  | <u>Strip out existing aluminium doors; include for disposal off site as directed by the Client/ ER; include for disconnecting any mechanical opening systems, panic bars or access control systems and the like; all in accordance with the Architects drawings and specifications</u>        |          |    |      |             |
|                                  | <u>Doors</u>                                                                                                                                                                                                                                                                                  |          |    |      |             |
| A                                | single doors; to Architects building                                                                                                                                                                                                                                                          | 2        | nr |      |             |
| B                                | single doors; to Annex building                                                                                                                                                                                                                                                               | 4        | nr |      |             |
| C                                | double doors; to Architects building                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| D                                | one & half leaf door; Annex building                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| E                                | glazed single doors with side screen                                                                                                                                                                                                                                                          | 6        | nr |      |             |
| F                                | single doors ; Aras HQ                                                                                                                                                                                                                                                                        | 3        | nr |      |             |
|                                  | <u>Strip out existing aluminium curtain walls; include for disposal off site as directed by the Client/ ER; include for disconnecting any mechanical opening systems, panic bars or access control systems and the like; all in accordance with the Architects drawings and specification</u> |          |    |      |             |
|                                  | <u>Curtain walls</u>                                                                                                                                                                                                                                                                          |          |    |      |             |
| G                                | curtain walls; to Architects building                                                                                                                                                                                                                                                         | 14       | m  |      |             |
| H                                | curtain walls; to Annex building                                                                                                                                                                                                                                                              | 50       | m  |      |             |
| I                                | curtain walls at entrance; Aras HQ                                                                                                                                                                                                                                                            | 20       | m  |      |             |
|                                  | <u>Strip out existing rooflights; include for disposal off site as directed by the Client/ ER; include for disconnecting any mechanical opening systems, panic bars or access control systems and the like; all in accordance with the Architects drawings and specification</u>              |          |    |      |             |
|                                  | <u>Rooflights</u>                                                                                                                                                                                                                                                                             |          |    |      |             |
| J                                | rooflights; to Architects building                                                                                                                                                                                                                                                            | 17       | nr |      |             |
| K                                | Rooflights; Annex building                                                                                                                                                                                                                                                                    | 44       | m2 |      |             |
| L                                | rooflights; Aras HQ                                                                                                                                                                                                                                                                           | 61       | nr |      |             |
|                                  | <u>Strip out existing encasement / boxing out around existing columns; include for disposal off site; all in accordance with Architects instructions and drawing 1002- D2- P01</u>                                                                                                            |          |    |      |             |
|                                  | <u>Boxing out</u>                                                                                                                                                                                                                                                                             |          |    |      |             |
| M                                | > 300mm girth; approximately 2650mm high                                                                                                                                                                                                                                                      | 5        | nr |      |             |
|                                  | <u>Strip out existing plasterboard ceiling including existing 50mm battens; include for disposal off site as directed by the Client/ER; all in accordance with Architects drawings</u>                                                                                                        |          |    |      |             |
|                                  | <u>Ceilings</u>                                                                                                                                                                                                                                                                               |          |    |      |             |
| N                                | > 300mm wide; to Architects building                                                                                                                                                                                                                                                          | 258      | m2 |      |             |
| O                                | > 300mm wide; to Annex building                                                                                                                                                                                                                                                               | 432      | m2 |      |             |
| P                                | > 300mm wide; to Aras HQ                                                                                                                                                                                                                                                                      | 796      | m2 |      |             |
|                                  | <u>Take out existing mineral wool insulation between rafters; include for the removal of timber battens; include for safe disposal offsite ; make good retained rafters; all in accordance with Architects drawings</u>                                                                       |          |    |      |             |
|                                  | <u>Insulation</u>                                                                                                                                                                                                                                                                             |          |    |      |             |
| Q                                | > 300mm wide; 100mm thick; refer to with Architects drawings 4001- D"- P01; to Architects building                                                                                                                                                                                            | 258      | m2 |      |             |

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| Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (21) EXTERNAL WALLS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                     | (21) EXTERNAL WALLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
|                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                   | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                   | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                   | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                     | SURVEYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                     | <u>THERMOGRAPHIC SURVEY</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| F                   | Provide for conducting a thermographic survey to the building; survey to be carried out prior to commencement of the works; in accordance with Architects specification and works requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |           |
| G                   | Provide for conducting a thermographic survey to the building; survey to be carried out prior to commencement of the works; in accordance with Architects specification and works requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |           |
|                     | BRICKWORK AND BLOCKWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                     | <u>BLOCKWORK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                     | <u>Solid concrete fairfaced blockwork; 440 x 215 x 100mm thick; Roadstone or equal approved solid concrete block to BS EN 771-3; in stretcher bond; all in accordance with manufacturers instructions, Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| H                   | 100mm thick; inner leaf; above ringbeam; refer to Architects detail 5 on drawing 4002- D2- P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12       | m2   |           |
|                     | <u>ANCILLARIES TO BLOCKWORK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                     | <u>Forming ventilation ducts within blockwork</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| I                   | Forming ventilation duct within blockwork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
|                     | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                     | <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                     | <u>Insulation; EPS beds insulation pumped into existing wall cavities ; to achieve a thermal conductivity of 0.033W/m2K; include for making good adjacent finishes; all in accordance with manufacturers instructions; Architects drawings and specifications</u>                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                     | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                | (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                              | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                              | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                              | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                              | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                              | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                | ROOFING CLADDING & WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                                | <u>WATERPROOFING NON METAL SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                | <u>EPDM membrane ; minimum 1mm thick; fully bonded to perimeter of all openings within the facade on the internal face of external walls using bitumenous bonding agent; installed lapped bonded and sealed in strict accordance with manufacturers instructions and Architects specifications</u>                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                | <u>Flashings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| F                              | EPDM to external wall openings; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 268      | m    |           |
| G                              | EPDM to external wall openings; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 293      | m    |           |
| H                              | EPDM to external wall openings; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,069    | m    |           |
|                                | <u>Airtightness seal; supply, installation and sealing of airtight tape &amp; fleece to perimeter of openings to windows and doors; include for all necessary preparatory works, priming and glue sealing where required; airtightness to achieve performance required performance; all in accordance with manufacturers instructions and Architects drawings and specification</u>                                                                                                                                                                                                                                                              |          |      |           |
|                                | <u>Airtightness tape</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| I                              | Airtight tape to external wall openings; refer to detail 8 on Architects drawing 4001- D2- P01; Architects buildings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 268      | m    |           |
| J                              | Airtight tape to external wall openings; refer to detail 4 on Architects drawing 4001- D2- P01; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 293      | m    |           |
| K                              | Airtight tape to external wall openings; Aeras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,069    | m    |           |
|                                | <u>DPC; supply and install DPC to heads and cills of windows and curtain walls where DPC is damaged or missing; including lapping; include for all preparatory works; all in accordance with manufacturers instructions and Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                                | <u>Dampproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |

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| Description                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                        | Quantity |    | Rate | Total (Γ)   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |          |    |      | (Continued) |
| A                                                                                                                                                                                                                                                                                                                         | horizontal; approx 330mm girth; to window cills; refer to Architects detail drawings detail 8, 9 and 10 on Architects drawing 4001- D2- P01; Architects building       | 15       | m2 |      |             |
| B                                                                                                                                                                                                                                                                                                                         | horizontal; approx 260mm girth; to curtain wall cills; refer to Architects detail drawings detail 8, 9 and 10 on Architects drawing 4001- D2- P01; Architects building | 4        | m2 |      |             |
| C                                                                                                                                                                                                                                                                                                                         | stepped; approx 400mm girth; to window heads; refer to Architects detail drawings detail 8, 9 and 10 on Architects drawing 4001- D2- P01; Architects building          | 18       | m2 |      |             |
| D                                                                                                                                                                                                                                                                                                                         | stepped; approx 750mm girth; to curtain wall heads; refer to Architects detail drawings detail 8, 9 and 10 on Architects drawing 4001- D2- P01; Architects building    | 11       | m2 |      |             |
| E                                                                                                                                                                                                                                                                                                                         | stepped; approx 750mm girth; to door heads ; refer to detail 2 on Architects drawing 4002- D2- P01Annex building                                                       | 17       | m2 |      |             |
| WOODWORK                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |          |    |      |             |
| <u>BOARDING AND SECOND FIXINGS</u>                                                                                                                                                                                                                                                                                        |                                                                                                                                                                        |          |    |      |             |
| <u>Window boards; 19mm thick softwood; rounded edge; fixed including all required timber supports, grounds and noggings; mastic sealed to all perimeter junctions; thoroughly sanded and sealed and left ready to receive paint finish (e.m); all in accordance with Architects specification and Architects drawings</u> |                                                                                                                                                                        |          |    |      |             |
| <u>Second fixings: Window boards</u>                                                                                                                                                                                                                                                                                      |                                                                                                                                                                        |          |    |      |             |
| F                                                                                                                                                                                                                                                                                                                         | 170mm wide; refer to Architects detail drawings detail 8 on Architects drawing 4001- D2- P01; Architects building                                                      | 45       | m  |      |             |
| G                                                                                                                                                                                                                                                                                                                         | 170mm wide; refer to Architects detail 4 on Architects drawing 4002- D2- P01 ; Annex building                                                                          | 88       | m  |      |             |
| H                                                                                                                                                                                                                                                                                                                         | 660mm wide; refer to Architects detail 10 on drawing 4002- D2- P01; Annex building                                                                                     | 20       | m  |      |             |
| I                                                                                                                                                                                                                                                                                                                         | 170mm wide; refer to Architects detail 8 on drawing 4101- D2- P01; Aras HQ                                                                                             | 154      | m  |      |             |
| WOODWORK                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                        |          |    |      |             |
| <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                              |                                                                                                                                                                        |          |    |      |             |
| <u>Supply and install ironmongery to doors; all in accordance with Architects specification and door and window schedules</u>                                                                                                                                                                                             |                                                                                                                                                                        |          |    |      |             |
| <u>Ironmongery</u>                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                        |          |    |      |             |
| J                                                                                                                                                                                                                                                                                                                         | Push bars; installed on internal side of door; Annex building                                                                                                          | 10       | nr |      |             |
| K                                                                                                                                                                                                                                                                                                                         | Push bars; installed on internal side of door; Aras HQ                                                                                                                 | 2        | nr |      |             |
| <u>Insulation; 25mm thick PIR insulation; thermal conductivity 0.022W/m2k; fixed to underside of window boards; include for all required fixings; include for 25 x 50mm battens;all in accordance with Architects specification and drawings</u>                                                                          |                                                                                                                                                                        |          |    |      |             |
| <u>Thermal</u>                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |          |    |      |             |
| L                                                                                                                                                                                                                                                                                                                         | < 300mm wide; refer to Architects detail 8 on Architects drawing 4001- D2- P01;to Architects building                                                                  | 8        | m2 |      |             |
| M                                                                                                                                                                                                                                                                                                                         | < 300mm wide; refer to Architects detail 2 on Architects drawing 4002- D2- P01;to Architects building                                                                  | 4        | m2 |      |             |
| <u>Insulation; 50mm thick PIR insulation; thermal conductivity 0.022W/m2k; fixed to underside of window boards; include for all required fixings; include for 44 x38mm battens;all in accordance with Architects specification and drawings</u>                                                                           |                                                                                                                                                                        |          |    |      |             |
| <u>Thermal</u>                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |          |    |      |             |
| N                                                                                                                                                                                                                                                                                                                         | < 300mm high; refer to Architects detail 10 on drawing 4002- D2- P01; to protruding curtain wall sill ; Annex building                                                 | 17       | m  |      |             |

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |    |      | (Continued) |
| A                              | > 300mm high; refer to Architects detail 10 on drawing 4002- D2- P01; to protruding curtain wall sill; Annex building<br><br><u>Insulation; structural foam with thermal conductivity of 0.68W/m2k to bottom of curtain walls; all in accordance with manufacturers specification and Architects drawings and specification</u><br><br><u>Thermal</u>                                                                                                                                                                                                                                    | 16       | m2 |      |             |
| B                              | < 300mm high; refer to Architects detail 8 on Architects drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14       | m  |      |             |
| C                              | < 300mm high; refer to Architects detail 1 on Architects drawing 4002- D2- P01; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32       | m  |      |             |
| D                              | < 300mm high; refer to Architects detail 10 on drawing 4101- D2- P01; Aras HQ<br><br>METALWORK<br><br><u>COMPOSITE ITEMS</u><br><br><u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; thermal performance 0.85W/m2K; curtain walling retrofitted into existing openings; include for all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings</u><br><br><u>Curtain walling</u><br><br><u>All curtain walling below shall to be to the Architects building</u> | 20       | m  |      |             |
| E                              | Curtain wall type 1; overall size 1740 x 3250mm high; ref CW0.01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | nr |      |             |
| F                              | ^^^^extra over for leaf and half door glazed with safety glass; overall size 1740 x 2190mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| G                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4        | m2 |      |             |
| H                              | ^^^^extra over for cane detection rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr |      |             |
| I                              | Curtain wall type 2; overall size 570 x 3300mm high; glazed with safety glass; ref CW0.02; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| J                              | ^^^^extra over for spandrel panel; approx size 570 x 420mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| K                              | ^^^^extra over for acid etched glass for privacy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| L                              | Curtain wall type 3; overall size 570 x 3290mm high; glazed with safety glass; ref CW0.03; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| M                              | ^^^^extra over for spandrel panel; approx size 570 x 160mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| N                              | Curtain wall type 4; overal size 570 x 3360mm high; glazed with safety glass; ref CW1.02; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr |      |             |
| O                              | ^^^^extra over for acid etched glass for privacy; panel size 570 x 3360mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| P                              | Curtain wall type 5; overall size approx 7611 x 3245mm high; ref CW0.04; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | nr |      |             |
| Q                              | ^^^^extra over for panels glazed with safety glass; panel size approx 1200 x 970mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6        | nr |      |             |
| R                              | ^^^^extra over for insulated frame extender piece to be installed at head of curtain wall; 7611mm long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr |      |             |
| S                              | Curtain wall type 6; overall size approx 1702 x 3250mm high; ref CW0.05; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | nr |      |             |
| T                              | ^^^^extra over for leaf and half door glazed with safety glass; size 1702 x 2135mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | nr |      |             |
| U                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4        | m2 |      |             |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quantity | Rate | Total (€)   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                              | ^^^^extra over for cane detection rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | nr   |             |
| B                              | ^^^^extra over for electrical works and builders works associated with automation of the door                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | nr   |             |
| C                              | Curtain wall type 7; overall size approx 1750 x 4181mm high ; ref CW1.01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | nr   |             |
| D                              | ^^^^extra over for panel glazed with acid etched sanitised glass for privacy                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |             |
| E                              | ^^^^extra over for safety glass; panels size approx 951 x 800mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2        | nr   |             |
| F                              | ^^^^extra over for safety glass; panels size approx 951 x 800mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2        | nr   |             |
| G                              | ^^^^extra over for openable sections with 100mm restrictor with manual override; panel size approx 600 x 810mm high                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | nr   |             |
| H                              | ^^^^extra over for openable sections with 100mm restrictor with manual override; panel size approx 600 x 1385mm high                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr   |             |
| I                              | ^^^^extra over for spandrel panel; approx size 951 x 180mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr   |             |
| J                              | ^^^^extra over for spandrel panel; approx size 541 x 180mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr   |             |
|                                | <u>All windows below shall be to the Annex building :</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |             |
| K                              | Window type 1; overall size approx 4313 x 2070mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr   |             |
| L                              | ^^^^extra over for one and half door; overall size approx 1653 x 2070mm high                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |             |
| M                              | ^^^^extra over for automated single door; size approx 925 x 2070mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr   |             |
| N                              | ^^^^extra over for metal rail with cane protection fixed to door at ground level                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | nr   |             |
| O                              | ^^^^extra over for electrical works associated with access control                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | nr   |             |
| P                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9        | m2   |             |
| Q                              | Window type 2; L-shaped; overall size approx 8100 x 2090mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr   |             |
| R                              | ^^^^extra over for double sliding door; overall size approx 3376 x 2090mm high                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr   |             |
| S                              | ^^^^extra over for spandrel panel approx 255mm x 2090mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |             |
| T                              | ^^^^extra over for spandrel panel approx 305mm x 2090mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |             |
| U                              | ^^^^extra over for support steelwork to corner window                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr   |             |
| V                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 17       | m2   |             |
|                                | <u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; with 100mm restrictor with manual override to openable sections; thermal performance 0.85W/ m2K; curtain walling retrofitted into existing openings; include for all necessary fixings; include for actuators to openable sections in accordance with Electrical Engineers specification; all in accordance with manufacturers instructions and Architects specification and drawings and schedules</u> |          |      |             |
|                                | <u>Curtain walling</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
|                                | <u>All windows below shall be to the Annex building :</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |             |
| W                              | Window type 15; L-shaped; overall size approx 6270mm x 4530mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | nr   |             |
| X                              | ^^^^extra over for spandrel panel approx 930 x 580mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |             |
| Y                              | ^^^^extra over for spandrel panel approx 910 x 580mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |             |
| Z                              | ^^^^extra over for spandrel panel approx 2200 x 580mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |             |
| AA                             | ^^^^extra over for spandrel panel approx 2225 x 580mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |             |
| AB                             | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4        | nr   |             |

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| Description                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           | Quantity | Rate | Total (€)   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           |          |      | (Continued) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for support steelwork to corner window                     | 1        | nr   |             |
| B                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for manifestation                                          | 28       | m2   |             |
| C                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; panel size approx 930 x 570mm high  | 1        | nr   |             |
| D                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; panel size approx 910 x 570mm high  | 1        | nr   |             |
| E                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; panel size approx 930 x 1295mm high | 1        | nr   |             |
| F                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; panel size approx 910 x 1295mm high | 1        | nr   |             |
| G                                                                                                                                                                                                                                                                                                                                                                                                                             | Window type 19; overall size approx 12015mm x 3434mm high                 | 1        | nr   |             |
| H                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for works associated with electrical and BMS requirements  | 8        | nr   |             |
| I                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panel approx 12015 x 300mm high               | 1        | nr   |             |
| J                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panel approx 12015 x 180mm high               | 1        | nr   |             |
| K                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panel approx 3004 x 180mm high                | 1        | nr   |             |
| L                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panel approx 3004 x 985mm high                | 4        | nr   |             |
| M                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for AOV; size approx 1502 x 985mm high                     | 8        | nr   |             |
| N                                                                                                                                                                                                                                                                                                                                                                                                                             | Window type 20; overall size approx 1060mm x 3500mm high                  | 1        | nr   |             |
| O                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for AOV; approx size 1060 x 570mm high                     | 2        | nr   |             |
| P                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for safety glass glazing                                   | 1        | nr   |             |
| Q                                                                                                                                                                                                                                                                                                                                                                                                                             | Window type 27; overall size approx 600mm x 4200mm high                   | 1        | nr   |             |
| R                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for AOV n.e 1m2                                            | 2        | nr   |             |
| S                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panel 600 x 315mm high                        | 1        | nr   |             |
| T                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for safety glass glazing                                   | 1        | nr   |             |
| U                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for works associated with electrical and BMS requirements  | 2        | nr   |             |
| <u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; thermal performance 0.85W/m2K; curtain walling retrofitted into existing openings; fitted with 100mm restrictor with manual override to openable sections; include for all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings and schedules</u> |                                                                           |          |      |             |
| <u>Curtain walling</u>                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |          |      |             |
| <u>All windows below shall be to the Aras HQ building :</u>                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |          |      |             |
| V                                                                                                                                                                                                                                                                                                                                                                                                                             | Curtain wall type 1; 940 x 8330mm high                                    | 2        | nr   |             |
| W                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for AOV, size approx 940 x 1599mm high                     | 2        | nr   |             |
| X                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; size approx 940 x 1709mm high       | 2        | nr   |             |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for openable sections; size approx 940 x 949mm high        | 2        | nr   |             |
| Z                                                                                                                                                                                                                                                                                                                                                                                                                             | ^^^^extra over for spandrel panels; size 940 x 1050mm high                | 2        | nr   |             |
| AA                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over for spandrel panels; size approx 940 x 820mm high          | 2        | nr   |             |
| AB                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over or spandrel panels; size approx 940 x 200mm high           | 2        | nr   |             |
| AC                                                                                                                                                                                                                                                                                                                                                                                                                            | Curtain wall type 2; overall size 900 x 10320mm high                      | 1        | nr   |             |
| AD                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over for single swing single door; size 900 x 2040mm high       | 1        | nr   |             |
| AE                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over for AOV; size approx 900 x 949mm high                      | 1        | nr   |             |
| AF                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over for AOV; size approx 900 x 1709mm high                     | 1        | nr   |             |
| AG                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^extra over for AOV; size approx 900 x 1565mm high                     | 1        | nr   |             |

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| (31) EXTERNAL WALL COMPLETIONS |                                                                                                         |          |      | (Continued) |
| A                              | ^^^^extra over for spandrel panels; size 900 x 1820mm high                                              | 1        | nr   |             |
| B                              | ^^^^extra over for spandrel panels; size 900 x 1520mm high                                              | 1        | nr   |             |
| C                              | ^^^^extra over for spandrel panels; size 900 x 200mm high                                               | 1        | nr   |             |
| D                              | ^^^^extra over for electrical works associated with access control                                      | 1        | nr   |             |
| E                              | Curtain wall type 3; overall size 930 x 8930mm high                                                     | 1        | nr   |             |
| F                              | ^^^^extra over AOV; size approx 930 x 1590mm high                                                       | 1        | nr   |             |
| G                              | ^^^^extra over AOV; size approx 930 x 1740mm high                                                       | 1        | nr   |             |
| H                              | ^^^^extra over AOV; size approx 930 x 1290mm high                                                       | 1        | nr   |             |
| I                              | ^^^^extra over for spandrel panel; size 930 x 200mm high                                                | 1        | nr   |             |
| J                              | ^^^^extra over for spandrel panel; size 930 x 1500mm high                                               | 1        | nr   |             |
| K                              | ^^^^extra over for spandrel panel; size 930 x 2170mm high                                               | 1        | nr   |             |
| L                              | Curtain wall type 4; overall size 960 x 9000mm high                                                     | 1        | nr   |             |
| M                              | ^^^^extra over for openable sections; with acid etched glass for privacy; size approx 960 x 1595mm high | 1        | nr   |             |
| N                              | ^^^^extra over for openable sections; with acid etched glass for privacy; size approx 960 x 1711mm high | 1        | nr   |             |
| O                              | ^^^^extra over for openable sections; with acid etched glass for privacy; size approx 960 x 1279mm high | 1        | nr   |             |
| P                              | ^^^^extra over for spandrel panel; size 960 x 1520mm high                                               | 1        | nr   |             |
| Q                              | ^^^^extra over for spandrel panel; size 960 x 2160mm high                                               | 1        | nr   |             |
| R                              | ^^^^extra over for spandrel panel; size 960 x 200mm high                                                | 1        | nr   |             |
| S                              | ^^^^extra over for acid etched sanitised glass for privacy                                              | 1        | nr   |             |
| T                              | Curtain wall type 5; overall size 930 x 9020mm high                                                     | 1        | nr   |             |
| U                              | ^^^^extra over for AOV; 930 x 1614mm high                                                               | 1        | nr   |             |
| V                              | ^^^^extra over for AOV; 930 x 1730mm high                                                               | 1        | nr   |             |
| W                              | ^^^^extra over for AOV; 930 x 1294mm high                                                               | 1        | nr   |             |
| X                              | ^^^^extra over for spandrel panel; size 930 x 1490mm high                                               | 1        | nr   |             |
| Y                              | ^^^^extra over for spandrel panel; size 930 x 2160mm high                                               | 1        | nr   |             |
| Z                              | ^^^^extra over for spandrel panel; size 930 x 200mm high                                                | 1        | nr   |             |
| AA                             | Curtain wall type 6; overall size 900 x 9530mm high                                                     | 1        | nr   |             |
| AB                             | ^^^^extra over for AOV; size approx 900 x 1596mm high                                                   | 1        | nr   |             |
| AC                             | ^^^^extra over for AOV; size approx 900 x 1719mm high                                                   | 1        | nr   |             |
| AD                             | ^^^^extra over for AOV; size approx 900 x 1631mm high                                                   | 1        | nr   |             |
| AE                             | ^^^^extra over for spandrel panel; size 900 x 1519mm high                                               | 1        | nr   |             |
| AF                             | ^^^^extra over for spandrel panel; size 900 x 1820mm high                                               | 1        | nr   |             |
| AG                             | ^^^^extra over for spandrel panel; size 900 x 200mm high                                                | 1        | nr   |             |
| AH                             | Curtain wall type 7; overall size 960 x 9530mm high                                                     | 1        | nr   |             |
| AI                             | ^^^^extra over for openable section; with acid etched glass for privacy; size approx 960 x 1595mm high  | 1        | nr   |             |
| AJ                             | ^^^^extra over for openable section; with acid etched glass for privacy; size approx 960 x 1725mm high  | 1        | nr   |             |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                          |                                                                                                        |          |      | (Continued) |
| A                                                                                                                                                                                                                                                                                       | ^^^^extra over for openable section; with acid etched glass for privacy; size approx 960 x 1185mm high | 1        | nr   |             |
| B                                                                                                                                                                                                                                                                                       | ^^^^extra over for acid etched glass for privacy to fixed panel; size approx 960 x 565mm high          | 1        | nr   |             |
| C                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panel; size 960 x 1515mm high                                              | 1        | nr   |             |
| D                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panel; size 960 x 2315mm high                                              | 1        | nr   |             |
| E                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panel; size 960 x 200mm high                                               | 1        | nr   |             |
| F                                                                                                                                                                                                                                                                                       | Curtain wall type 8; overall size 3810 x 2830mm high                                                   | 1        | nr   |             |
| G                                                                                                                                                                                                                                                                                       | ^^^^extra over for openable sections; size approx 1276 x 930mm high                                    | 1        | nr   |             |
| H                                                                                                                                                                                                                                                                                       | ^^^^extra over for openable sections; size approx 1265 x 930mm high                                    | 1        | nr   |             |
| I                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1276 x 920mm high                                             | 1        | nr   |             |
| J                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1269 x 920mm high                                             | 1        | nr   |             |
| K                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1265 x 920mm high                                             | 1        | nr   |             |
| L                                                                                                                                                                                                                                                                                       | Curtain wall type 9; overall size 3840 x 2830mm high                                                   | 1        | nr   |             |
| M                                                                                                                                                                                                                                                                                       | ^^^^extra over for openable sections; size approx 1300 x 950mm high                                    | 1        | nr   |             |
| N                                                                                                                                                                                                                                                                                       | ^^^^extra over for openable sections; size approx 1264 x 950mm high                                    | 1        | nr   |             |
| O                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1300 x 950mm high                                             | 1        | nr   |             |
| P                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1276 x 950mm high                                             | 1        | nr   |             |
| Q                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1264 x 950mm high                                             | 1        | nr   |             |
| R                                                                                                                                                                                                                                                                                       | Curtain wall type 10; overall size 1584 x 2919mm high                                                  | 1        | nr   |             |
| S                                                                                                                                                                                                                                                                                       | ^^^^extra over for spandrel panels; size 1584 x 951mm high                                             | 1        | nr   |             |
| T                                                                                                                                                                                                                                                                                       | Curtain wall type 11; overall size 10681 x 3290mm high                                                 | 1        | nr   |             |
| U                                                                                                                                                                                                                                                                                       | ^^^^extra over for sliding door; size 1060 x 2080mm high                                               | 1        | nr   |             |
| V                                                                                                                                                                                                                                                                                       | ^^^^extra over for safety glass glazing                                                                | 1        | nr   |             |
| W                                                                                                                                                                                                                                                                                       | ^^^^extra over for electrical works associated with access control and automation of door              | 1        | nr   |             |
| X                                                                                                                                                                                                                                                                                       | ^^^^extra over for manifestation                                                                       | 35       | m2   |             |
| Y                                                                                                                                                                                                                                                                                       | Curtain wall type 12; overall size 720 x 6440mm high                                                   | 2        | nr   |             |
| Z                                                                                                                                                                                                                                                                                       | ^^^^extra over spandrel panel; size 720 x 1050mm high                                                  | 2        | nr   |             |
| AA                                                                                                                                                                                                                                                                                      | ^^^^extra over for AOV n.e 2m2                                                                         | 2        | nr   |             |
| AB                                                                                                                                                                                                                                                                                      | ^^^^extra over for safety glass glazing; panel size approx 720 x 1185mm high                           | 2        | nr   |             |
| <u>WINDOWS</u>                                                                                                                                                                                                                                                                          |                                                                                                        |          |      |             |
| <u>Supply and install; thermally broken triple glazed aluminium window system; with fixed panels; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u> |                                                                                                        |          |      |             |
| <u>Windows and framesets</u>                                                                                                                                                                                                                                                            |                                                                                                        |          |      |             |
| <u>All windows below shall be to the Architects building :</u>                                                                                                                                                                                                                          |                                                                                                        |          |      |             |
| AC                                                                                                                                                                                                                                                                                      | Window Type 1; size 1200 x 1350mm high; to Architects building                                         | 1        | nr   |             |
| AD                                                                                                                                                                                                                                                                                      | Window Type 3; size 1180 x 3200mm high; to Architects building                                         | 1        | nr   |             |
| AE                                                                                                                                                                                                                                                                                      | ^^^^extra over for spandrel panel; size approx 1180 x 1150mm high                                      | 1        | nr   |             |

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| (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                          |          |      | (Continued) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for openable section; size 1180 x 1000mm high            | 1        | nr   |             |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 6; size 570 x 1240mm high; to Architects building            | 1        | nr   |             |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for openable section; size 570 x 1240mm high             |          |      |             |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 7; size 210 x 1340mm high; to Architects building            | 4        | nr   |             |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 9; size 570 x 570mm high; to Architects building             | 2        | nr   |             |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 2; size 1380 x 1210mm high; to Architects building           | 2        | nr   |             |
| G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for glazing with acid etched sanitised glass for privacy | 2        | nr   |             |
| H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for openable section; size approx 670 x 1240mm high      | 2        | nr   |             |
| <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>Windows and framesets</u><br><br><u>All windows below shall be to the Annex building :</u>                                                                   |                                                                          |          |      |             |
| I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 3; size 870 x 1130mm high                                    | 1        | nr   |             |
| J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 34; size 1800 x 1150mm high                                  | 1        | nr   |             |
| K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 6; size 2965 x 1130mm high                                   | 1        | nr   |             |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for acid etched sanitised glazing                        | 1        | nr   |             |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for spandrel panel; size 275 x 1130mm high               | 1        | nr   |             |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 9; size 3370 x 1140mm high                                   | 1        | nr   |             |
| O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 21; size 4088 x 850mm high                                   | 1        | nr   |             |
| P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 30; size 2000 x 650mm high                                   | 1        | nr   |             |
| Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 31; size 1325 x 650mm high                                   | 1        | nr   |             |
| R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 32; L- shape ; size approx 5760 x 850mm high                 | 1        | nr   |             |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ^^^^^extra over for steel support at corner; 850mm high                  | 1        | nr   |             |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | extra over for spandrel panel; size 625 x 850mm high                     | 1        | nr   |             |
| U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | extra over for spandrel panel; size 430 x 850mm high                     | 2        | nr   |             |
| V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 33; size 1620 x 1150mm high                                  | 2        | nr   |             |
| <u>Supply and install; thermally broken triple glazed aluminium window system; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>Windows and framesets</u><br><br><u>All windows below shall be to the Annex building :</u> |                                                                          |          |      |             |
| W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 4; size 1800 x 1150mm high                                   | 1        | nr   |             |
| <u>Supply and install; thermally broken triple glazed aluminium window system; window frame to be slimline frame; u-value requirement &lt;= 0.85W/m2K; powder coated finish; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>All windows below shall be to the Architects building :</u>                                                                                                                                                                        |                                                                          |          |      |             |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Window Type 4; size 450 x 1240mm high; to Architects building            | 4        | nr   |             |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------|----|------|-----------|
| (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          | (Continued) |    |      |           |
| <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; window frame to be slimline frame; u-value requirement <math>\leq 0.85\text{W/m}^2\text{K}</math>; powder coated finish; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><u>Window and framesets</u><br><u>All windows below shall be to the Annex building :</u> |                                                                          |             |    |      |           |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 14; size 570 x 590mm high                                    | 2           | nr |      |           |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for extender piece to window frame                        | 2           | nr |      |           |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 2           | nr |      |           |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 17; size 540 x 650mm high                                    | 3           | nr |      |           |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for extender piece to window frame                        | 3           | nr |      |           |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 3           | nr |      |           |
| G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 28; size 440 x 650mm high                                    | 2           | nr |      |           |
| H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for extender piece to window frame                        | 2           | nr |      |           |
| I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 1           | nr |      |           |
| <u>All windows below shall be to the Architects building :</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |             |    |      |           |
| J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 8; size 570 x 570mm high; to Architects building             | 2           | nr |      |           |
| K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for builders works associated with automation of window   | 2           | nr |      |           |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 10; size 570 x 570mm high; to Architects building            | 3           | nr |      |           |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for toughened glass                                       | 1           | nr |      |           |
| <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; u-value requirement <math>\leq 0.85\text{W/m}^2\text{K}</math>; powder coated finish; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><u>Window and framesets</u><br><u>All windows below shall be to the Annex building :</u>                                    |                                                                          |             |    |      |           |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 10; size 2160 x 560mm high                                   | 2           | nr |      |           |
| O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 2           | nr |      |           |
| P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 11; size 1540 x 590mm high                                   | 2           | nr |      |           |
| Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 2           | nr |      |           |
| R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window type 16; L-shape; size approx 9325 x 1145mm high                  | 1           | nr |      |           |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for works associated with electrical and BMS requirements | 1           | nr |      |           |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for steel support at corner; 1145mm high                  | 1           | nr |      |           |
| U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for AOV; approx size 950 x 1145mm high                    | 1           | nr |      |           |
| V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for AOV; approx 1000 x 1145mm high                        | 1           | nr |      |           |
| W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for spandrel panels; approx size 270 x 1145mm high        | 1           | nr |      |           |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for spandrel panel; approx size 640 x 1145mm high         | 1           | nr |      |           |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ^^^^extra over for spandrel panel; approx size 430 x 1145mm high         | 1           | nr |      |           |
| Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Window Type 18; size 4235 x 742mm high                                   | 1           | nr |      |           |

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |    |      | (Continued) |
| A                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr |      |             |
| B                              | ^^^^^extra over for acid etched sanitised glazing                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| C                              | ^^^^^extra over for spandrel panels; approx size 200 x 745mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2        | nr |      |             |
| D                              | ^^^^^extra over for openable sections; approx size 745 x 742mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | nr |      |             |
| E                              | ^^^^^extra over for openable sections; approx size 1720 x 745mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr |      |             |
| F                              | Window Type 22; size 1400 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3        | nr |      |             |
| G                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr |      |             |
| H                              | Window Type 23; size 1495 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4        | nr |      |             |
| I                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr |      |             |
| J                              | Window Type 24; size 2135 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3        | nr |      |             |
| K                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr |      |             |
| L                              | Window Type 25; size 1525 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | nr |      |             |
| M                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr |      |             |
| N                              | Window Type 26; size 2000 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2        | nr |      |             |
| O                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr |      |             |
| P                              | Window Type 29; size 2000 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | nr |      |             |
| Q                              | ^^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr |      |             |
|                                | <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings.</u>                                                                                                                                                                                    |          |    |      |             |
|                                | <u>Windows and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |    |      |             |
|                                | <u>All windows below shall be to the Architects building :</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |    |      |             |
| R                              | Window Type 5; size 1180 x 1240mm high; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6        | nr |      |             |
| S                              | Window Type 11; size 1770 x 1240mm high; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2        | nr |      |             |
| T                              | ^^^^^extra over for openable section with 100mm restictor with manual override; size approx 670 x 1240mm high                                                                                                                                                                                                                                                                                                                                                                                                             | 2        | nr |      |             |
| U                              | Window Type 12; size 1380 x 1240mm high; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5        | nr |      |             |
| V                              | ^^^^^extra over for openable section with 100mm restictor with manual override; size approx 670 x 1240mm high                                                                                                                                                                                                                                                                                                                                                                                                             | 5        | nr |      |             |
| W                              | Window Type 13; size 2310 x 1140mm high; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6        | nr |      |             |
| X                              | ^^^^^extra over for openable section with 100mm restictor with manual override; size approx 670 x 1140mm high                                                                                                                                                                                                                                                                                                                                                                                                             | 6        | nr |      |             |
|                                | <u>Supply and install; thermally broken triple glazed aluminium window and door system comprising of window with fixed panes and solid aluminium door; with 100mm restrictor with manual override to openable window sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; openable windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings.</u> |          |    |      |             |
|                                | <u>Windows and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |    |      |             |
|                                | <u>All windows below shall be to the Aras HQ building :</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |    |      |             |
| Y                              | Window type 2; size 1170 x 2156mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6        | nr |      |             |

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |    |      | (Continued) |
| A                              | Window type 3; size 950 x 1620mm high<br><br><u>Supply and install; thermally broken triple glazed aluminium window and door system comprising of window with fixed panes and solid aluminium door; with 100mm restrictor with manual override to openable window sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>Windows and framesets</u><br><br><u>All windows below shall be to the Aras HQ building :</u>                                                             | 4        | nr |      |             |
| B                              | Window type 1; size 1170 x 1860mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 46       | nr |      |             |
| C                              | Window type 4; size 1170 x 1800mm high<br><br><u>COMPOSITE WINDOWS AND DOORS</u><br><br><u>Supply and install; thermally broken triple glazed aluminium window and door system comprising of window with fixed panes and solid aluminium door; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>Composite window and door framesets</u><br><br><u>All composite windows and door framesets below shall be to the Annex building :</u>                                                 | 76       | nr |      |             |
| D                              | Window Type 5; overall size approx 1760 x 1130mm high size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| E                              | ^^^^extra over for solid aluminium door; size 840 x 2080mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr |      |             |
| F                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2        | nr |      |             |
| G                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2        | nr |      |             |
| H                              | ^^^^extra over for builders works associated with access control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr |      |             |
| I                              | Window Type 7; overall size approx 2760 x 1150mm high size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| J                              | ^^^^extra over for solid aluminium door; size 860 x 2080mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr |      |             |
| K                              | ^^^^extra over for metal rail with cane protection fixed to door at 200 to 400mm above finished floor level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | nr |      |             |
| L                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr |      |             |
| M                              | ^^^^extra over for builders works associated with access control<br><br><u>Supply and install; thermally broken triple glazed aluminium window and door system comprising of window with fixed panes and solid aluminium door; with 100mm restrictor with manual override to openable window sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; openable windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u><br><br><u>Windows and framesets</u> | 1        | nr |      |             |
| N                              | Window Type 8; overall size approx 5900 x 1150mm high size; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr |      |             |
| O                              | ^^^^extra over for solid aluminium door; size 850 x 2070mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr |      |             |
| P                              | ^^^^extra over for metal rail with cane protection fixed to door at 200 to 400mm above finished floor level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2        | nr |      |             |
| Q                              | ^^^^extra over for builders works associated with access control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr |      |             |
| R                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr |      |             |
| S                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2        | nr |      |             |

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|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                    |          |      | (Continued) |
|                                | <u>DOORS</u>                                                                                                                                                                                                                                                                                       |          |      |             |
|                                | <u>Supply and install; solid aluminium doors; high performance solid insulated door leaf and thermally broken aluminium frame; thermal performance u-value &lt;= 0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u> |          |      |             |
|                                | <u>Doors and framesets</u>                                                                                                                                                                                                                                                                         |          |      |             |
| A                              | Door type 1; single swing double door; size 1460 x 2100mm high; ref D0.01; Architects building                                                                                                                                                                                                     | 1        | nr   |             |
| B                              | Door type 1; single swing single door; size 870 x 2080mm high; ref D0.01, D0.02, D0.03; Annex building                                                                                                                                                                                             | 3        | nr   |             |
|                                | <u>Supply and install; triple glazed doors; glazed with safety glass; thermal performance u-value &lt;= 0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u>                                                          |          |      |             |
|                                | <u>Doors and framesets</u>                                                                                                                                                                                                                                                                         |          |      |             |
| C                              | Door type 2; single swing single door; size 870 x 2080mm high; ref D0.04; Annex building                                                                                                                                                                                                           | 1        | nr   |             |
| D                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                   | 1        | nr   |             |
| E                              | Door type 1; single swing single door; overall size 1660 x 2390mm high; ref D0.01 and D0.02; Aras HQ                                                                                                                                                                                               | 2        | nr   |             |
| F                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                           | 2        | nr   |             |
| G                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                            | 2        | nr   |             |
| H                              | Door type 2; single swing double door; overall size 2096 x 2740mm high; ref D0.03; Aras HQ                                                                                                                                                                                                         | 1        | nr   |             |
| I                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                           | 1        | nr   |             |
| J                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                            | 1        | nr   |             |
| K                              | Door type 3; single swing single door; overall size 1050 x 2050mm high; ref D1.01; Aras HQ                                                                                                                                                                                                         | 1        | nr   |             |
|                                | <u>Pressed metal steel window cills; fixed at base of windows ; including fixings, gaskets and seals; all fixed in position ; profile and fixings in accordance with Architects specification and drawings</u>                                                                                     |          |      |             |
|                                | <u>Window cills</u>                                                                                                                                                                                                                                                                                |          |      |             |
| L                              | window cill; approx 260mm wide; to existing blockwalls; refer to detail 8 on drawing 4001- D2- P01; Architects building                                                                                                                                                                            | 45       | m    |             |
| M                              | window cill; approx 260mm wide; to existing blockwalls; refer to detail 8 on drawing 4002- D2- P01; Annex building                                                                                                                                                                                 | 88       | m    |             |
| N                              | aluminium cills; to curtain walling; to Annex building                                                                                                                                                                                                                                             | 32       | m    |             |
| O                              | window cills; approx 260mm wide; to existing blockwalls; Aras HQ                                                                                                                                                                                                                                   | 154      | m    |             |
| P                              | aluminium cills; to curtain walling; Aras HQ                                                                                                                                                                                                                                                       | 29       | m    |             |
|                                | <u>Flashings</u>                                                                                                                                                                                                                                                                                   |          |      |             |
| Q                              | Metal flashing to be installed over existing concrete cills; 300-450mm girth; refer to Architects detail 12 on drawing 4002- D2- P01; Architects building                                                                                                                                          | 76       | m    |             |
| R                              | Pressed metal flashing to protruding curtain wall sill; 950 - 1050mm girth; refer to Architects detail 10 on drawing 4002- D2- P01; Architects building                                                                                                                                            | 17       | m    |             |
|                                | <u>Louvres</u>                                                                                                                                                                                                                                                                                     |          |      |             |
| S                              | aluminium vents; refer to drawing 2101- D2- P01; Annex building                                                                                                                                                                                                                                    | 11       | nr   |             |
|                                | <u>Guardrails</u>                                                                                                                                                                                                                                                                                  |          |      |             |
| T                              | guardrails; to internal reveals at second floor level; Aras HQ                                                                                                                                                                                                                                     | 7        | m    |             |

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      | (Continued) |
|                                | GLAZING                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
|                                | COMPOSITE ITEMS                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
|                                | Supply and install; aluminium framed glazed doors; glazed with safety glass; thermal performance u-value <= 0.85W/m2K; finish to be confirmed; include for all associated ironmongery; all in accordance with Architects specification and drawings                                                                                                                                                                           |          |      |             |
|                                | Doors and framesets                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| A                              | Door type 2; single swing single door; size 1200 x 3225mm high; ref D0.02; Architects building                                                                                                                                                                                                                                                                                                                                | 1        | nr   |             |
| B                              | Door type 3; single swing single door; size 1140 x 2120mm high; ref D1.01; Architects building                                                                                                                                                                                                                                                                                                                                | 1        | nr   |             |
|                                | Supply and install; aluminium framed glazed composite window and door system; doors glazed with safety glass; thermal performance u-value <= 0.85W/m2K; finish to be confirmed; include for all associated ironmongery; all in accordance with Architects specification and drawings                                                                                                                                          |          |      |             |
|                                | Composite Window and Door framesets                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
|                                | All windows below shall be to the Annex building :                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
| C                              | Window type 13; overall size 2070 x 2080mm high                                                                                                                                                                                                                                                                                                                                                                               | 3        | nr   |             |
| D                              | ^^^^extra over glazed single door; size approximately 870 x 2060mm high                                                                                                                                                                                                                                                                                                                                                       | 3        | nr   |             |
| E                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                                                                                                                      | 6        | nr   |             |
| F                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                                                                                                                                                       | 3        | nr   |             |
| G                              | ^^^^extra over for builders works associated with access control                                                                                                                                                                                                                                                                                                                                                              | 3        | nr   |             |
| H                              | ^^^^extra over for manifestation to door                                                                                                                                                                                                                                                                                                                                                                                      | 13       | nr   |             |
|                                | Supply and install; aluminium framed glazed composite window and door system; doors glazed with safety glass; window frame to be a slimline frame; thermal performance u-value <= 0.85W/m2K; finish to be confirmed; openable windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification and drawings |          |      |             |
|                                | Composite Window and Door framesets                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
|                                | All windows below shall be to the Annex building :                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
| I                              | Window type 12; overall size 1530 x 2060mm high                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr   |             |
| J                              | ^^^^extra over glazed single door; size approximately 870 x 2060mm high                                                                                                                                                                                                                                                                                                                                                       | 1        | nr   |             |
| K                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                                                                                                                      | 2        | nr   |             |
| L                              | ^^^^extra over for works associated with installation of power push pad                                                                                                                                                                                                                                                                                                                                                       | 1        | nr   |             |
| M                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                      | 1        | nr   |             |
| N                              | ^^^^extra over for builders works associated with access control                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |             |
| O                              | ^^^^extra over for extender piece to window frame                                                                                                                                                                                                                                                                                                                                                                             | 1        | nr   |             |
| P                              | ^^^^extra over for manifestation to door                                                                                                                                                                                                                                                                                                                                                                                      | 4        | nr   |             |
|                                | PAINTING AND DECORATION                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
|                                | PAINTING                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
|                                | Paint; prepare base, mix and apply; in accordance with manufacturers instructions and Architects specification                                                                                                                                                                                                                                                                                                                |          |      |             |
|                                | Second fixings                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
| Q                              | window boards; < 300mm wide; Architects building                                                                                                                                                                                                                                                                                                                                                                              | 45       | m    |             |

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| Description                                           |  | Quantity |  | Rate | Total (€)   |
|-------------------------------------------------------|--|----------|--|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS                        |  |          |  |      | (Continued) |
| COLLECTION                                            |  |          |  |      |             |
| Page 36:                                              |  |          |  |      |             |
| Page 37:                                              |  |          |  |      |             |
| Page 38:                                              |  |          |  |      |             |
| Page 39:                                              |  |          |  |      |             |
| Page 40:                                              |  |          |  |      |             |
| Page 41:                                              |  |          |  |      |             |
| Page 42:                                              |  |          |  |      |             |
| Page 43:                                              |  |          |  |      |             |
| Page 44:                                              |  |          |  |      |             |
| Page 45:                                              |  |          |  |      |             |
| Page 46:                                              |  |          |  |      |             |
| Page 47:                                              |  |          |  |      |             |
| Page 48:                                              |  |          |  |      |             |
| Page 49:                                              |  |          |  |      |             |
| (31) EXTERNAL WALL COMPLETIONS<br>Carried to Summary: |  |          |  |      |             |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (37) ROOF COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (37) ROOF COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                     | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | ROOFING CLADDING & WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                       | <u>WATERPROOFING NON METAL SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                       | <u>EPDM membrane ; minimum 1mm thick; fully bonded to perimeter of all openings within the roof using bitumenous bonding agent; installed lapped bonded and sealed in strict accordance with manufacturers instructions and Architects specifications</u>                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                       | <u>Flashings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| F                     | EPDM to roof lights; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100      | m    |           |
| G                     | EPDM to roof lights; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 87       | m    |           |
| H                     | EPDM to roof lights; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 323      | m    |           |
|                       | <u>Airtightness seal; supply, installation and sealing of airtight tape &amp; fleece to perimeter of openings to roofs; include for all necessary preparatory works, priming and glue sealing where required; airtightness to achieve performance to 5m3/hr/m2 @ 50Pa; all in accordance with manufacturers instructions and Architects specifications</u>                                                                                                                                                                                                                                                                                       |          |      |           |
|                       | <u>Airtightness tape</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| I                     | Airtight tape to rooflights; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100      | m    |           |
| J                     | Airtight tape to roof lights; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 87       | m    |           |
| K                     | Airtight tape to roof lights; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 323      | m    |           |
|                       | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                       | <u>COMPOSITE ITEMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                       | <u>Supply and install; Rooflights; tripled glazed sealed insulating glass unit with laminated timber frame and sash; thermal performance &lt;= 0.85W/m2K; include for all flashings and waterproofing; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                       | <u>Rooflights</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity |    | Rate | Total (Γ)   |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (37) ROOF COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |    |      | (Continued) |
| A                     | Rooflight type 1; size approx. 1007 x 1677mm long; refer to Architects detail 6 on drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16       | nr |      |             |
| B                     | Rooflight type 2; AOV; size approx 1260 x 1260mm long; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr |      |             |
| C                     | ^^^^extra over for upstands/kerbs including waterproofing and metal flashings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 91       | m  |      |             |
| D                     | ^^^^extra over for electrical and builders works associated with automated controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17       | nr |      |             |
| E                     | ^^^^extra over for modifications to existing roof finishes and roof structure where rooflights were removed (removal e.m) to facilitate installation of new rooflights<br><br><u>Supply and install; Rooflights; triple glazed sealed insulating glass unit with laminated timber frame and sash; thermal performance &lt;= 0.85W/m2K;include for actuators to openable sections in accordance with Electrical Engineers specification; include for all flashings and waterproofing; all in accordance with Architects specification and drawings</u><br><br><u>Rooflights</u> | 17       | nr |      |             |
| F                     | Rooflight type 1; size approx 32220 x 1594mm long; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr |      |             |
| G                     | ^^^^extra over for AOV; approx size 1183 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| H                     | ^^^^extra over for AOV; approx size 1138 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| I                     | ^^^^extra over for AOV; approx size 1254 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| J                     | ^^^^extra over for AOV; approx size 1232 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2        | nr |      |             |
| K                     | ^^^^extra over for AOV; approx size 1267 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| L                     | ^^^^extra over for AOV; approx size 1206 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| M                     | ^^^^extra over for AOV; approx size 1229 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| N                     | ^^^^extra over for AOV; approx size 1306 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | nr |      |             |
| O                     | ^^^^extra over for spandrel panel approx 240 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5        | nr |      |             |
| P                     | ^^^^extra over for louvred panel; approx size 2215 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr |      |             |
| Q                     | ^^^^extra over for louvred panel; approx size 2179 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr |      |             |
| R                     | ^^^^extra over for louvred panel; approx size 2219 x 1594mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr |      |             |
| S                     | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9        | nr |      |             |
| T                     | Rooflight type 2; size approx 1017 x 1447mm long; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr |      |             |
| U                     | Rooflight type 3; size approx 837 x 1367mm long; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr |      |             |
| V                     | Rooflight type 4; size approx 987 x 1447mm long; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        | nr |      |             |
| W                     | ^^^^extra over for upstands/kerbs including waterproofing and metal flashings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87       | m  |      |             |
| X                     | ^^^^extra over for electrical and builders works associated with automated controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr |      |             |
| Y                     | ^^^^extra over for modifications to existing roof finishes and roof structure where rooflights were removed (removal e.m) to facilitate installation of new rooflights                                                                                                                                                                                                                                                                                                                                                                                                         | 5        | nr |      |             |
| Z                     | Rooflight type 1; size 940 x 1650mm high; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr |      |             |
| AA                    | Rooflight type 2; size 940 x 1610mm high; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr |      |             |
| AB                    | Rooflight type 3; size 1000 x 1650mm high; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 59       | nr |      |             |
| AC                    | ^^^^extra over for upstands/kerbs including waterproofing and flashings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 323      | m  |      |             |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quantity | Rate | Total (€)   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (37) ROOF COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      | (Continued) |
|                       | METALWORK                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
|                       | <u>COMPOSITE ITEMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
|                       | <u>Supply and install auminium louvres; to achieve U- value of 0.85W/m2K; include for making good revealsinclude for proprietary seals,flashingsand the like; all in accordance with manufacturers instructions and Architects drawings and specifications</u>                                                                                                                                                                                        |          |      |             |
|                       | <u>Louvres</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |
| A                     | Louvres; approx 7000 x 600mm high; Annex building                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr   |             |
|                       | <u>NON- STRUCTURAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
|                       | <u>Railings; galvanised steel railing; 1100mm high; include for all necessary fixings; fixed ontop of wall; all in accordance with Architects drawings and specifications</u>                                                                                                                                                                                                                                                                         |          |      |             |
|                       | <u>Railing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |
| B                     | 1100mm high; to bunker roof; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                  | 22       | m    |             |
|                       | <u>Skyway Access Constant Force or equal approved stainless steel restraint system; all systems installed to be suitable for roof type structure and finish as Architects specification; include for all required weathering, flashing installation, permanent labelling/signageand transfastener system for contnuous movement around corners / across supportsin strict accordance with Architects specification and manufacturers instructions</u> |          |      |             |
|                       | <u>Fall restraint system</u>                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| C                     | to warm insulated roof                                                                                                                                                                                                                                                                                                                                                                                                                                | 328      | m    |             |
|                       | <u>Fall Restraint accessories</u>                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |
| D                     | removable transfastner system                                                                                                                                                                                                                                                                                                                                                                                                                         | 7        | nr   |             |
| E                     | full body harness                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7        | nr   |             |
| F                     | energy absorbing larnyards; 2m long                                                                                                                                                                                                                                                                                                                                                                                                                   | 14       | nr   |             |
| G                     | PPE storage holdall                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| (37) ROOF COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |

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| Description                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (41) WALL FINISHES EXTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                               | (41) WALL FINISHES EXTERNALLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                               | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                             | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                             | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                             | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                             | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                             | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                               | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                               | <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                               | <u>PIR insulation; to achieve thermal conductivity of 0.02Wm2K; fixed to curtain wall head; include for all fixings; all in accordance with Architects specification and detail 9 on drawing 4001- D2- P01</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                               | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| F                             | > 300mm girth; 60mm thick; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7        | m2   |           |
|                               | <u>Mineral wall insulation; EWI including silicone render finish; fixed to external walls; to achieve thermal conductivity of 0.036W/m2K; include for all necessary accessories , fixings and flashings; all in accordance with manufacturers instructions, Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                               | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| G                             | > 300mm; 180mm thick; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 591      | m2   |           |
| H                             | < 300mm; 180mm thick; to window and door reveals and heads ; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 290      | m    |           |
|                               | FLOOR WALL CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                               | <u>IN SITU FINISHES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                               | <u>Make good existing rendered reveals; to match existing; all in accordance with Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| I                             | 300mm wide; to window reveals; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 41       | m2   |           |
| J                             | 300mm wide; to window reveals; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 81       | m2   |           |
| K                             | 300mm wide; to window reveals; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 191      | m2   |           |
|                               | <u>BOARD FINISHES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |

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| Description                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (42) WALL FINISHES INTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                               | (42) WALL FINISHES INTERNALLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                               | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                             | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                             | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                             | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                             | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                             | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                               | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                               | <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                               | <u>PIR insulation; to achieve thermal conductivity of 0.02Wm2K; fixed to walls; include for all fixings; all in accordance with Architects specification and detail 7 on drawing 4001- D2- P01</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                               | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| F                             | > 300mm girth; 60mm thick; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 21       | m2   |           |
|                               | <u>PIR insulation; to achieve thermal conductivity of 0.02Wm2K; fixed to walls; include for all fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                               | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| G                             | < 300mm girth; 25mm thick; to window heads;ref to detail 8 on drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19       | m2   |           |
| H                             | < 300mm girth; 25mm thick; to window heads and reveals; refer to Architects detail 7 on drawing 4101- D2- P0; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 108      | m2   |           |
|                               | FLOOR WALL CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                               | <u>IN- SITU FINISHES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                               | <u>Sand and cement render; make good existing rendered surfaces damaged during the works; all in accordance with Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                               | <u>Walls</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| I                             | generally; Aras HQ (contractor to assess quantity on site visit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | item |           |
|                               | <u>BOARD FINISHES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                               | <u>Plasterboard; 12.5mm thick plasterboard with 2.5mm skim coat; fixed to walls onto insulation (e.m); include for all fixings; all joints to be taped, filled and finished to smooth surface; all in accordance with Architects specification and detail 7 and 8 on drawing 4001- D2- P01</u>                                                                                                                                                                                                                                                                                                                                                   |          |      |           |

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| Description                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity |      | Rate | Total (€)   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| (42) WALL FINISHES INTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |      | (Continued) |
|                               | <u>Wall linings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |      |             |
| A                             | < 300mm girth; to walls; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21       | m2   |      |             |
| B                             | < 300mm girth to window reveals; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 26       | m2   |      |             |
| C                             | < 300mm girth; to window heads; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13       | m2   |      |             |
| D                             | < 300mm girth; to walls; below window boards; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8        | m2   |      |             |
| E                             | ^^^^extra over for abutment to other finishes (adjacent walls, floors and ceilings)<br><br><u>Plasterboard; 12.5mm thick plasterboard with 2.5mm skim coat; fixed to walls onto insulation (e.m); include for all fixings; all joints to be taped, filled and finished to smooth surface; all in accordance with Architects specification and detail 7 and 8 on drawing 4101- D2- P01</u>                                                                                                                                                                                                                                                                                               | 1        | item |      |             |
|                               | <u>Wall linings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |      |             |
| F                             | < 300mm girth; to window heads; Aras HQ<br><br><u>Vertical encasement to existing columns; 44 x 44mm vertical timber studs; include for noggings where necessary; encasement comprising head and floor channels; floor channels fixed to floor and head channels fixed to underside of upper floor; include for PIR insulation fixed to studs; covered with 12.5mm plasterboard with 2.5mm skim coat on one side; butt joints; joints staggered; all joints and intersections to be taped and skimmed with 2.5mm thick plaster; include for sealant to perimeter; all in accordance with Architects specification and drawing</u><br><br><u>Encasement to existing concrete columns</u> | 108      | m2   |      |             |
| G                             | exceeding 300mm; 140 x 370 x 140mm; internal dimensions; 3 sides; approx 2650mm high ; refer to detail 12 on drawing 4001 - D2 - P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5        | nr   |      |             |
| H                             | Encasement to existing steel/concrete columns; dimensions approx 2000 x 380 x 2000mm; 3 sides; approx 3500mm high; Aras HQ<br><br><u>PAINTING AND DECORATING</u><br><br><u>PAINTING</u><br><br><u>Paint; prepare base, mix and apply; in accordance with manufacturers instructions and Architects specification</u><br><br><u>Walls</u>                                                                                                                                                                                                                                                                                                                                                | 24       | nr   |      |             |
| I                             | > 300mm; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67       | m2   |      |             |
| J                             | < 300mm wide; window heads and reveals; Aras HQ<br><br><u>Encasement</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 637      | m    |      |             |
| K                             | > 300mm; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9        | m2   |      |             |
| L                             | > 300mm; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84       | m2   |      |             |
| (42) WALL FINISHES INTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |      |             |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (45) CEILING FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (45) CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                     | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | ROOFING, CLADDING AND WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
|                       | <u>MASTIC ASPHALT WATERPROOF AND GAS PROOF NON METAL FLEXIBLE SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                       | <u>Airtightness membrane to underside insulation (e.m) ; minimum 150mm laps at all joints and sealed with airseal tape; lapped at 200mm to perimeter of building and fixed to external walls with sealer tape; all penetrations sealed; all in accordance with manufacturers instructions and Architects specification and detail 6 on drawing 4001- D2- P01</u>                                                                                                                                                                                                                                                                                 |          |      |           |
|                       | <u>Airtightness membrane</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| F                     | > 300mm; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 313      | m2   |           |
| G                     | > 300mm; sloping; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 285      | m2   |           |
| H                     | > 300mm; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 147      | m2   |           |
| I                     | > 300mm; sloping Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 796      | m2   |           |
| J                     | > 300mm; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 201      | m2   |           |
|                       | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                       | <u>IRONMONGERY ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                       | <u>Mineral wool insulation batts; to achieve thermal conductivity of 0.034W/mK; fixed in attic space between existing purlins; include for all fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                       | <u>Thermal insulation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
| K                     | > 300mm wide; 175mm thick; refer to detail 6 on Architects drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 258      | m2   |           |
|                       | <u>Mineral wool insulation batts; to achieve thermal conductivity of 0.031W/mK; fixed in attic space between existing purlins; include for all fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (45) CEILING FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      | (Continued) |
| A                     | > 300mm wide; 120mm thick; 2 layers; sloping; refer to details 6, 7 and 8 on Architects drawing 4002- D2- P01; Annex building                                                                                                                                                                                                                                                                                                                                                                                                               | 570 m2   |      |             |
| B                     | > 300mm wide; 120mm thick; 2 layers; refer to details 6, 7 and 8 on Architects drawing 4002- D2- P01; Annex building<br><br><u>PIR insulation; to achieve thermal conductivity of 0.022Wm2K; fixed in attic space at rooflight locations; include for all fixings; all in accordance with Architects specification and drawings</u><br><br><u>Thermal insulation</u>                                                                                                                                                                        | 293 m2   |      |             |
| C                     | > 300mm wide; 25mm thick; refer to detail 6 on Architects drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33 m2    |      |             |
| D                     | > 300mm wide; 60mm thick; attic space; refer to detail 6 on Architects drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                           | 19 m2    |      |             |
| E                     | > 300mm wide; 50mm thick; sloping; refer to detail 6,7 and 8 on Architects drawing 4002- D2- P01; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                            | 285 m2   |      |             |
| F                     | > 300mm girth; 50mm thick; wrapped around purlins; refer to detail 8 on Architects drawing 4002- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                               | 164 m2   |      |             |
| G                     | > 300mm wide; 100mm thick; between rafters; sloping; refer to Architects drawing 1204- D2- P01; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                     | 796 m2   |      |             |
| H                     | > 300mm wide; 25mm thick; refer to Architects detail 6 on drawing 4101- D2- P01; Aras HQ<br><br>FLOOR WALL CEILING FINISHES<br><br><u>BOARD FINISHES</u><br><br><u>Plasterboard ceilings; 15mm type A plasterboard; fixed to underside of roof insulation system (e.m) ; include for plywood grounds; joints staggered, lapped, scrimmed, taped and sealed with a clean smooth finish ready for skimming; all in accordance with Architects specification and Architects detail 6 and 7 on drawing 4001- D2- P01</u><br><br><u>Ceilings</u> | 49 m2    |      |             |
| I                     | > 300mm wide; sloping; refer to Architects detail 6 and 7 on Architects drawing 4001- D2- P01; Architects building                                                                                                                                                                                                                                                                                                                                                                                                                          | 259 m2   |      |             |
| J                     | > 300mm wide; sloping; refer to Architects detail 7 on Architects drawing 4002- D2- P01; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                     | 91 m2    |      |             |
| K                     | ^^^^extra over for perimeter trims<br><br><u>Plasterboard; 15mm thick plasterboard with 2.5mm skim coat; fixed to existing 35 x 50mm battens; include for all fixings; all joints to be taped; filled and finished to smooth surface; all in accordance with Architects specification and detail 9 on drawing 4002- D2- P01</u>                                                                                                                                                                                                             | 1 item   |      |             |
| L                     | > 300mm wide; horizontal; at curtain wall locations<br><br><u>Plasterboard; 15mm thick plasterboard with 2.5mm skim coat; fixed to 25 x 50mm timber battens; include for all fixings; all joints to be taped; filled and finished to smooth surface; all in accordance with Architects specification and detail 8 on drawing 4002- D2- P01</u>                                                                                                                                                                                              | 10 m2    |      |             |
| M                     | > 300mm wide; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 147 m2   |      |             |
| N                     | > 300mm wide; sloping; Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 103 m2   |      |             |
| O                     | extra over for perimeter trims<br><br><u>Plasterboard; 15mm thick plasterboard with 2.5mm skim coat; fixed to existing 35 x 50mm battens; include for all fixings; all joints to be taped; filled and finished to smooth surface; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                          | 1 item   |      |             |
| P                     | > 300mm wide; sloping Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 796 m2   |      |             |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (45) CEILING FINISHES |                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                     | > 300mm wide; horizontal; Aras HQ                                                                                                                                                                                                                                                         | 201      | m2   |             |
| B                     | extra over for perimeter trims                                                                                                                                                                                                                                                            | 1        | item |             |
|                       | <u>Plasterboard ceilings; 15mm type A plasterboard; include for plywood grounds; joints staggered, lapped, scrimmed, taped and sealed with a clean smooth finish ready for skimming; all in accordance with Architects specification and Architects detail 6 on drawing 4001- D2- P01</u> |          |      |             |
|                       | <u>Bulkheads</u>                                                                                                                                                                                                                                                                          |          |      |             |
| C                     | Vertical plasterboard bulkhead; 335mm high; Architects building                                                                                                                                                                                                                           | 33       | m2   |             |
| D                     | Vertical plasterboard bulkhead; 570mm high; Annex building                                                                                                                                                                                                                                | 13       | m2   |             |
|                       | <u>Suspended tile ceilings; reinstate existing ceiling tiles previously set aside; include for all necessary works; all in accordance with Architects drawings and specification</u>                                                                                                      |          |      |             |
|                       | <u>Ceilings</u>                                                                                                                                                                                                                                                                           |          |      |             |
| E                     | > 300mm; horizontal; Aras HQ                                                                                                                                                                                                                                                              | 108      | m2   |             |
| F                     | ^^^^extra over for replacement of damaged ceiling tiles                                                                                                                                                                                                                                   | 16       | m2   |             |
| G                     | ^^^^extra over for supply of 1nr box of tiles to match existing                                                                                                                                                                                                                           | 1        | item |             |
|                       | <u>PAINTING AND DECORATING</u>                                                                                                                                                                                                                                                            |          |      |             |
|                       | <u>PAINTING</u>                                                                                                                                                                                                                                                                           |          |      |             |
|                       | <u>Paint; prepare base, mix and apply; in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                     |          |      |             |
|                       | <u>Ceilings</u>                                                                                                                                                                                                                                                                           |          |      |             |
| H                     | > 300mm wide; Architects building                                                                                                                                                                                                                                                         | 259      | m2   |             |
| I                     | > 300mm wide; Annex building                                                                                                                                                                                                                                                              | 432      | m2   |             |
| J                     | > 300mm wide; Aras HQ                                                                                                                                                                                                                                                                     | 997      | m2   |             |
| K                     | > 300mm wide; existing plasterboard retained; Aras HQ                                                                                                                                                                                                                                     | 165      | m2   |             |
|                       | <u>Bulkheads</u>                                                                                                                                                                                                                                                                          |          |      |             |
| L                     | > 300mm wide ; Architects building                                                                                                                                                                                                                                                        | 33       | m2   |             |
| M                     | > 300mm wide; Annex building; Annex building                                                                                                                                                                                                                                              | 13       | m2   |             |
|                       | (45) CEILING FINISHES                                                                                                                                                                                                                                                                     |          |      |             |

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|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (46) AIRTIGHTNESS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                   | (46) AIRTIGHTNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                   | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                 | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                 | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                 | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                 | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                 | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                   | <u>AIRTIGHTNESS UPGRADES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                   | <u>Allow for sealing all junctions between blockworks and window/door reveals/heads/cills, service penetrations through walls and ceilings and the like; to achieve an airtightness level of 5m3/hr/m2 @50Pa; using appropriate airtightness tapes and membranes; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                                                                                             |          |      |           |
| F                 | generally; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| G                 | generally; to Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |           |
| H                 | generally; to Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |           |
|                   | <u>AIRTIGHTNESS TESTING AND CERTIFICATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                   | <u>Allow for testing all works for airtightness; building required to achieve airtightness level of 5m3/hr/m2 @50Pa; testing to be carried out in accordance with Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| I                 | generally; to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| J                 | generally; to Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |           |
| K                 | generally; to Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |           |
| L                 | Builders attendance preparing for tests (including taping up vents,dummy doors and the like); to Architects building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |           |
| M                 | Builders attendance preparing for tests (including taping up vents,dummy doors and the like); to Annex building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |           |
| N                 | Builders attendance preparing for tests (including taping up vents,dummy doors and the like); to Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |           |
|                   | (46) AIRTIGHTNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                    | (47) ROOF FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                  | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                  | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                  | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                    | ROOFING, CLADDING, WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                    | <u>WATERPROOFING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
|                    | <u>Waterproofing membrane; installed in accordance with manufacturers instructions; lapped at ends; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
|                    | <u>Waterproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| F                  | > 300mm; bunker roof; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 128      | m2   |           |
|                    | <u>NON- METAL FLEXIBLE SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
|                    | <u>Supply and install; Bauder Thermofol PVC or equivalent waterproofing system; laid on top of 50mm PIR insulation (e.m); include all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                    | <u>Roofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| G                  | > 300mm; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 659      | m2   |           |
|                    | <u>SLATE AND TILE COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                    | <u>Repair / replace existing loose slates; include for all necessary fixings; include for all necessary works; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                    | <u>Roofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| H                  | < 300mm; in isolated locations; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250      | m2   |           |
|                    | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                    | <u>IRONMONGERY, ACCESSORIES, AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                    | <u>Insulation; Rigid PIR insulation; to achieve a thermal conductivity of 0.022W/m2K; installed on top of existing roof membrane; all in accordance with manufacturers instructions and Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                    | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |

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| Description        |                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Total (€)   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                                                                                             |          |      | (Continued) |
| A                  | > 300mm; horizontal; 50mm thick; Aras HQ<br><br>SURFACE PAVING<br><br><u>PREFORMED PAVING AND EDGING UNITS</u><br><br><u>Reinstate existing pavers previously set aside; include for 20mm disc spacers; include for making good adjacent finishes; all in accordance with Architects specification</u><br><br><u>Paving</u> | 659      | m2   |             |
| B                  | > 300mm; to bunker roof; Aras HQ<br><br>(47) ROOF FINISHES                                                                                                                                                                                                                                                                  | 128      | m2   |             |

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| Description         |  | Quantity | Rate | Total (Γ)   |
|---------------------|--|----------|------|-------------|
| (47) ROOF FINISHES  |  |          |      | (Continued) |
| COLLECTION          |  |          |      |             |
| Page 66:            |  |          |      |             |
| Page 67:            |  |          |      |             |
| (47) ROOF FINISHES  |  |          |      |             |
| Carried to Summary: |  |          |      |             |

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| Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity |      | Rate | Total (Γ) |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-----------|
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |      |           |
|                     | (51) HEATING CENTRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      |           |
|                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |      |           |
| A                   | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | note |      |           |
| B                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |      |           |
| C                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |      |           |
| D                   | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |      |           |
| E                   | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |      |           |
| F                   | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |      |           |
| G                   | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |      |           |
| H                   | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| I                   | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |      |           |
| J                   | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co- ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | note |      |           |
| K                   | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |      |           |
| L                   | The contractor shall note that all pipework and ductwork routes are indicative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |      |           |
| M                   | Water Service Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      |           |
| N                   | Automatic air vents to be fitted at all high points throughout the pipework system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| O                   | Drain cocks to be fitted at all low points (per level and in each service riser) throughout the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |      |           |
| P                   | Ball- O- Fix valves for external taps shall be fitted internally with easy access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| Q                   | Pipework insulation shall be preformed sections of rigid mineral wool with aluminium foil laminate cover. Insulation shall be fitted to all connections, bends, tees and valves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |      |           |
| R                   | Proprietary jackets with velcro fixing shall be used on all valves over 32mm. Additional taping shall be provided at 2m intervals on insulation within plantrooms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | note |      |           |
| S                   | All hot water outlets shall be provided with TMV3 fail- safe lockable thermostatic blending valves limiting maximum temperature to 43&C. Back- to- back or groups of wash hand basins shall be served by a single blending valve.                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | note |      |           |

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| Description                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           | Quantity | Rate | Total (€)   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (51) HEATING CENTRE                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                                                                                                                                                                                                                                                                                          | All outlets to be provided with quarter turn ball valves to facilitate maintenance.                                                                                                                                                                       | 1        | note |             |
| B                                                                                                                                                                                                                                                                                          | Refer to hydronic schematic for primary route valve arrangements. Line size lever- action isolating valves to be provided on ALL branch/tee connections (risers, primary runs, secondary runs and final equipment).                                       | 1        | note |             |
| C                                                                                                                                                                                                                                                                                          | Pressure reducing valves to be provided onto each floor level at each service riser (refer to schematic)                                                                                                                                                  | 1        | note |             |
| D                                                                                                                                                                                                                                                                                          | Contractor to finalize pump pressure (KPA) once pipes final routes are finalized                                                                                                                                                                          | 1        | note |             |
| TRACKING/TRACING                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                           |          |      |             |
| <u>HEAT TRACING</u>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                           |          |      |             |
| E                                                                                                                                                                                                                                                                                          | Contractor to allow for heat tracing to new pipework; all in accordance with Engineers specification                                                                                                                                                      | 1        | item |             |
| STRIP OUT                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                           |          |      |             |
| <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |          |      |             |
| <u>Decommission and strip out existing equipment or accessories; include for capping pipework to be retained; disconnect from electrical supply and wiring; include for disposal of equipment as directed by Client / ER ; all in accordance with Engineers specification and drawings</u> |                                                                                                                                                                                                                                                           |          |      |             |
| <u>Existing Equipment or accessories</u>                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |          |      |             |
| F                                                                                                                                                                                                                                                                                          | existing low loss header and piping connection                                                                                                                                                                                                            | 1        | item |             |
| G                                                                                                                                                                                                                                                                                          | existing DHW calorifier, complete with 2nr immersion heaters; at Level 1                                                                                                                                                                                  | 1        | item |             |
| H                                                                                                                                                                                                                                                                                          | existing pressurization tank; including all associated pipework and accessories                                                                                                                                                                           | 1        | item |             |
| I                                                                                                                                                                                                                                                                                          | existing expansion vessel; including all associated pipework and accessories                                                                                                                                                                              | 1        | item |             |
| HEATING SERVICES                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                           |          |      |             |
| <u>PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |          |      |             |
| <u>Supply , assemble, install, test &amp; commission the following equipment; in accordance with manufacturers instructions and Engineers specification</u>                                                                                                                                |                                                                                                                                                                                                                                                           |          |      |             |
| <u>Air Source Heat Pumps</u>                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                           |          |      |             |
| J                                                                                                                                                                                                                                                                                          | ASHP; Mastertherm or equivalent ; 25kw capacity; ref ASHP- 01, ASHP- 02, ASHP- 03                                                                                                                                                                         | 3        | nr   |             |
| <u>Buffer vessel</u>                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |          |      |             |
| K                                                                                                                                                                                                                                                                                          | Buffer vessel; Mastertherm or equivalent; 1000L capacity; complete with 3nr internal baffles and 6nr 100mm diameter connection ports; ref BT- 01                                                                                                          | 1        | nr   |             |
| <u>Heat Pump Control Panel</u>                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                           |          |      |             |
| L                                                                                                                                                                                                                                                                                          | Heat pump control panel complete with extension box; ref HPCP- RF- 01;Aras HQ                                                                                                                                                                             | 1        | nr   |             |
| <u>Pressurization unit</u>                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                           |          |      |             |
| M                                                                                                                                                                                                                                                                                          | Pressurization unit; Pumps UK Autopress Twin Pump or equivalent; capacity 18 litres; pressure range exceeding 2.5 bar; include for twim pumps; include for all necessary works; all works in accordance with manufacturers instructions and specification | 1        | nr   |             |
| <u>Expansion vessel</u>                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                           |          |      |             |
| N                                                                                                                                                                                                                                                                                          | Expansion vessel; Xylem or equivalent; 150 Litre capacity; include for all accessories; all in accordance with manufacturers instructions and specification                                                                                               | 1        | nr   |             |
| <u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |          |      |             |
| <u>Supply and install; the following associated with plant and equipment; in accordance with Engineers specification</u>                                                                                                                                                                   |                                                                                                                                                                                                                                                           |          |      |             |

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| Description                                                                                                                                                                                                                                         |                                                | Quantity |      | Rate | Total (Γ)   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------|------|------|-------------|
| (51) HEATING CENTRE                                                                                                                                                                                                                                 |                                                |          |      |      | (Continued) |
| A                                                                                                                                                                                                                                                   | 25mm diameter valves                           | 6        | nr   |      |             |
| B                                                                                                                                                                                                                                                   | 25mm diameter non return valve                 | 3        | nr   |      |             |
| C                                                                                                                                                                                                                                                   | 25mm diameter strainer                         | 3        | nr   |      |             |
| D                                                                                                                                                                                                                                                   | 25mm diameter change over valves               | 2        | nr   |      |             |
| E                                                                                                                                                                                                                                                   | 50mm diameter blank flanges                    | 2        | nr   |      |             |
| F                                                                                                                                                                                                                                                   | 50mm diameter valves                           | 10       | nr   |      |             |
| G                                                                                                                                                                                                                                                   | 100mm diameter valves                          | 5        | nr   |      |             |
| H                                                                                                                                                                                                                                                   | 50mm diameter non return valve                 | 3        | nr   |      |             |
| I                                                                                                                                                                                                                                                   | 50mm diameter strainer valve                   | 3        | nr   |      |             |
| J                                                                                                                                                                                                                                                   | 50mm diameter 2 port independant control valve | 2        | nr   |      |             |
| K                                                                                                                                                                                                                                                   | 25mm 3- port control valves                    | 2        | nr   |      |             |
| L                                                                                                                                                                                                                                                   | Temperature gauge                              | 6        | nr   |      |             |
| M                                                                                                                                                                                                                                                   | 50mm diameter automatic air valve              | 1        | nr   |      |             |
| N                                                                                                                                                                                                                                                   | 100mm diameter automatic air valve             | 2        | nr   |      |             |
| O                                                                                                                                                                                                                                                   | Pressure switch                                | 1        | nr   |      |             |
| P                                                                                                                                                                                                                                                   | Pressure relief actuator                       | 1        | nr   |      |             |
| Q                                                                                                                                                                                                                                                   | Drain cock                                     | 2        | nr   |      |             |
| R                                                                                                                                                                                                                                                   | Magnetic filter/ separator                     | 1        | nr   |      |             |
| S                                                                                                                                                                                                                                                   | Heat meters                                    | 3        | nr   |      |             |
| <u>DISTRIBUTION SYSTEM</u>                                                                                                                                                                                                                          |                                                |          |      |      |             |
| <u>Pipework; Supply and install pipework to connect new heatpumps to buffer vessel, in accordance with Engineers specifications and drawings D- M- 55002</u>                                                                                        |                                                |          |      |      |             |
| T                                                                                                                                                                                                                                                   | 25mm diameter                                  | 1        | item |      |             |
| U                                                                                                                                                                                                                                                   | 50mm diameter                                  | 1        | item |      |             |
| <u>Pipework; Supply and install pipework to connect existing gas boilers to buffer vessel, include for all works associated with connection to existing pipework, in accordance with Engineers specifications and drawings D- M- 55002</u>          |                                                |          |      |      |             |
| V                                                                                                                                                                                                                                                   | 100mm diameter                                 | 1        | item |      |             |
| <u>Pipework; Supply and install pipework to connect heat pumps to existing calorifier circuit, include for all works associated with connection to existing pipework, in accordance with Engineers specifications and drawings D- M- 55002</u>      |                                                |          |      |      |             |
| W                                                                                                                                                                                                                                                   | 35mm diameter                                  | 1        | item |      |             |
| <u>Pipework; Supply and install pipework to connect buffer vessel to existing distribution headers, include for all works associated with connection to existing pipework, in accordance with Engineers specifications and drawings D- M- 55002</u> |                                                |          |      |      |             |
| X                                                                                                                                                                                                                                                   | 100mm diameter                                 | 1        | item |      |             |
| <u>INSULATION</u>                                                                                                                                                                                                                                   |                                                |          |      |      |             |
| <u>Supply and install; insulation in accordance with Engineers specification</u>                                                                                                                                                                    |                                                |          |      |      |             |
| Y                                                                                                                                                                                                                                                   | to pipework; outside the building              | 1        | item |      |             |
| Z                                                                                                                                                                                                                                                   | to pipework inside the building                | 1        | item |      |             |

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| Description             |                                                                                                                                                                                                                                                                                           | Quantity | Rate | Total (€)   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (53) WATER DISTRIBUTION |                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                       | All outlets to be provided with quarter turn ball valves to facilitate maintenance.                                                                                                                                                                                                       | 1        | note |             |
| B                       | Refer to hydronic schematic for primary route valve arrangements. Line size lever- action isolating valves to be provided on ALL branch/tee connections (risers, primary runs, secondary runs and final equipment).                                                                       | 1        | note |             |
| C                       | Pressure reducing valves to be provided onto each floor level at each service riser (refer to schematic)                                                                                                                                                                                  | 1        | note |             |
| D                       | Contractor to finalize pump pressure (KPA) once pipes final routes are finalized                                                                                                                                                                                                          | 1        | note |             |
|                         | STRIP OUT                                                                                                                                                                                                                                                                                 |          |      |             |
|                         | <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                  |          |      |             |
|                         | <u>Decommission and strip out existing equipment or accessories; include for capping pipework to be retained; disconnect from electrical supply and wiring; include for disposal of equipment as directed by Client /ER ; all in accordance with Engineers specification and drawings</u> |          |      |             |
|                         | <u>Existing Equipment or accessories</u>                                                                                                                                                                                                                                                  |          |      |             |
| E                       | existing calorifier                                                                                                                                                                                                                                                                       | 1        | item |             |
|                         | WATER INSTALLATION                                                                                                                                                                                                                                                                        |          |      |             |
|                         | <u>PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                                                  |          |      |             |
|                         | <u>Supply and install; primary equipment associated with water distribution; all in accordance with Engineers drawings and specification</u>                                                                                                                                              |          |      |             |
|                         | <u>Calorifier</u>                                                                                                                                                                                                                                                                         |          |      |             |
| F                       | Calorifier; Mastertherm or equivalent; complete with 12kW immersion heater element; vertical configuration; approximate size 700mm diameter x 1950mm high; 412L capacity; ref DHWC- 01                                                                                                    | 1        | nr   |             |
|                         | <u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                      |          |      |             |
|                         | <u>Supply and install; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                    |          |      |             |
|                         | <u>Valves, pumps and the like</u>                                                                                                                                                                                                                                                         |          |      |             |
| G                       | Pumps; Grundfos or equivalent; flow 2.2l/s; ref P- GL- 01                                                                                                                                                                                                                                 | 1        | item |             |
| H                       | Valves                                                                                                                                                                                                                                                                                    | 1        | item |             |
|                         | <u>DISTRUBUTION SYSTEM</u>                                                                                                                                                                                                                                                                |          |      |             |
|                         | <u>Pipework; in accordance with Engineers specification and drawing D- M- 57001</u>                                                                                                                                                                                                       |          |      |             |
|                         | <u>Pipework</u>                                                                                                                                                                                                                                                                           |          |      |             |
| I                       | Supply and install; to connect calorifier to existing pipework to existing DHW circulation                                                                                                                                                                                                | 1        | item |             |
| J                       | Allow for condensate drainage from heatpumps                                                                                                                                                                                                                                              | 1        | item |             |
|                         | <u>INSULATION</u>                                                                                                                                                                                                                                                                         |          |      |             |
|                         | <u>Supply and install; insulation; in accordance with Engineers specification and drawings</u>                                                                                                                                                                                            |          |      |             |
|                         | <u>Insulation</u>                                                                                                                                                                                                                                                                         |          |      |             |
| K                       | to pipework; outside the building                                                                                                                                                                                                                                                         | 1        | item |             |
| L                       | to pipework ; inside the building                                                                                                                                                                                                                                                         | 1        | item |             |
|                         | <u>GENERAL</u>                                                                                                                                                                                                                                                                            |          |      |             |
| M                       | Testing and commissioning of water distribution installations; in accordance with the Engineers specification                                                                                                                                                                             | 1        | item |             |
| N                       | Operating and maintenance manuals                                                                                                                                                                                                                                                         | 1        | item |             |

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| Description                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (58) BWIC MECHANICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | (58) BUILDERS WORKS IN CONNECTION WITH MECHANICAL INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                  | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing register                                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| B                                  | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                                  | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                    | <u>BUILDERS WORKS IN CONNECTION WITH MECHANICAL INSTALLATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>ATTENDANCES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                    | <u>Provide or the following general and specialist attendance:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| F                                  | Provide for unloading, hoisting / crange and distribution of materials, plant or equipment too designated final positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
| G                                  | Provide for weatherproof covered storage accomodation /workshop facility for materials, plant, equipment and tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| H                                  | Provide for temporary power and power for commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |           |
| I                                  | Provide for specialist scaffolding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| J                                  | Provide for temporary lighting and water supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| K                                  | Provide for clearing away and disposal of rubbish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>Provide for unloading, hoisting, distribution of the following plant and equipment; include for suitable size crane</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| L                                  | Buffer tank vessel; 1000L capacity; size 1100mm diameter x 1985mm high; weight 1215kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr   |           |
| M                                  | Air Source Heat Pumps; weight 185kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        | nr   |           |
| N                                  | Calorifier; 412L capacity; size 700mm diameter x 1950mm high; weight 247kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | nr   |           |
| O                                  | Pump; flow 2.2l/s; weight 33kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr   |           |
| P                                  | Pressurization tank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | nr   |           |
| Q                                  | Expansion vessel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
|                                    | <u>SUNDRIES AND BUILDERS WORK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>Sundries</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| R                                  | marking the positions of holes , mortices, chases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |

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| Description                        |                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Rate | Total (€)   |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (58) BWIC MECHANICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                        |          |      | (Continued) |
|                                    | <u>Chases</u>                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| A                                  | chases for concealed conduit/pipe; include for making good upon completion                                                                                                                                                                                                                                                                                                             | 1        | item |             |
|                                    | <u>Forming opes for pipework; in existing roofs; include for coring/ cutting out hole in roof; include for all necessary steel/timer support to opes; include for all necessary alterations to roof including cutting back roof finishes and fully sealing and weathering ducting passing through the roof; include for all necessary firestopping of service penetrations to roof</u> |          |      |             |
|                                    | <u>Forming opes</u>                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| B                                  | ope in roof to facilitate installation of pipework from ASHP to buffer tank; size 50mm diameter; refer to Engineers drawing D- M- 57001 and D- M- 55002                                                                                                                                                                                                                                | 4        | nr   |             |
| C                                  | ^^^^extra over for fully weathering and making good around penetrations                                                                                                                                                                                                                                                                                                                | 4        | nr   |             |
| D                                  | ope in walls to facilitate installation of pipework from ASHP to buffer tank; size 50mm diameter; refer to Engineers drawing D- M- 57001 and D- M- 55002                                                                                                                                                                                                                               | 4        | nr   |             |
| E                                  | ^^^^extra over for fully weathering and making good around penetrations                                                                                                                                                                                                                                                                                                                | 4        | nr   |             |
|                                    | <u>Fire sleeves</u>                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| F                                  | Supply and install; fire sleeves for pipework passing through walls, roofs and the like where required                                                                                                                                                                                                                                                                                 | 1        | item |             |
|                                    | <u>SUPPORT SYSTEM, FOR MECHANICAL PLANT AND EQUIPMENT</u>                                                                                                                                                                                                                                                                                                                              |          |      |             |
|                                    | <u>Design supply and install; Big Foot or equivalent; heavy duty support system for mechanical plant and equipment; include for support frames, legs, cross bars, and anti vibration mats and the like</u>                                                                                                                                                                             |          |      |             |
|                                    | <u>Support System for ASHPs</u>                                                                                                                                                                                                                                                                                                                                                        |          |      |             |
| G                                  | ASHPs; weight 185kg                                                                                                                                                                                                                                                                                                                                                                    | 3        | nr   |             |
|                                    | <u>ENCLOSURES</u>                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
|                                    | <u>Design supply and install; anti- vandalism/anti- climb cage; welded mesh cage providing anti- vandalism and anti- climb protection; cage to have front access hatch for maintenance; hatch to be fully lockable; cage to be bolted to concrete plinth; all to be in accordance with Architects specification</u>                                                                    |          |      |             |
|                                    | <u>Enclosure cage</u>                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| H                                  | to ASHP                                                                                                                                                                                                                                                                                                                                                                                | 3        | nr   |             |
| (58) BWIC MECHANICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |

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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| <b>(61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                                      | (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                                                      | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                                                    | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | note |           |
| B                                                    | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                                                    | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                                                    | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                                                    | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                                                    | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                                                    | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                                                    | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                                                    | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                                                    | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                                                    | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                                                    | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                                                    | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                                                    | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                                                    | All elements of the electrical supply and mains distribution shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
|                                                      | <u>WORKS TO EXISTING DISTRIBUTION BOARDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| P                                                    | Allow for works associated with connecting new mechanical plant to the existing DB including all necessary wiring, switches and the like; all works in accordance with Engineers drawings and specifications                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |           |
|                                                      | <u>TEMPORARY WORKS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |

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|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      | (Continued) |
| A                                             | Contractor to provide for temporary generators to ensure that the IT server room remains operation for the duration of the works; all to be in accordance with the Engineers works requirements<br><br>LV INSTALLATIONS<br><br><u>CABLE CONTAINMENT</u><br><br><u>Supply, install, test and commission the following cable containment ; include for all necessary fixings, supports, joints, bends, tees, brackets and the like; all in accordance with Engineers drawings and specifications</u><br><br><u>Cable tray</u> | 3        | nr   |             |
| B                                             | 200mm cable tray; Aras HQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| C                                             | Support frame or pedestals for cable tray ; all in accordance with Engineers specifications<br><br><u>CABLING</u><br><br><u>Supply and install; including connections, glands, termination, supports, earthing, bonding, insulation and protection and like; cable size as per Engineers specification; all in accordance with Engineers drawings and specification</u>                                                                                                                                                     | 1        | item |             |
| D                                             | All cabling associated with power distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |             |
| E                                             | All feeder cabling associated with power distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| F                                             | All BMS cabling associated power distribution<br><br><u>FINAL CIRCUITS (Connection and terminations)</u><br><br><u>Final circuits to power distribution installations with cabling and wiring size in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                              | 1        | item |             |
| G                                             | Final circuit points<br><br><u>GENERAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| H                                             | Allow for verification of existing Fire Alarm and associated devices and newly installed devices; in accordance with Engineers specification                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |             |
| I                                             | Allow for certification of main electrical distribution equipment; all in accordance with Engineers specification                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| J                                             | General earthing and bonding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |             |
| K                                             | Testing and commissioning to general power distribution; in accordance with Engineers specification                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| L                                             | Allow for recommissioning to existing works reinstalled; all in accordance with Engineers specification                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |             |
| M                                             | Operating and maintainance manuals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| N                                             | As built drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| O                                             | Identification plates, labels and the like                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |

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|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (62) GENERAL SERVICES INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                     | (62) GENERAL SERVICES INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                                   | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | note |           |
| B                                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                                   | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                                   | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                                   | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                                   | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                                   | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                                   | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                                   | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                                   | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                                   | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                                   | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                                   | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                                   | All elements of the electrical supply and mains distribution shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
|                                     | SURVEYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| P                                   | Allow for carrying out site investigation to determine locations for AOV control panels, smoke vent head of stair /control switches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
|                                     | GENERAL POWER INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
|                                     | <u>FITTINGS AND ACCESSORIES ASSOCIATED WITH TERMINAL EQUIPMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                     | <u>Supply and install; including fixing and accessories; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |

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|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|-----------|
| (62) GENERAL SERVICES INSTALLATIONS |                                                                                                                                                                                                                           | (Continued) |      |           |
|                                     | <u>Fittings</u>                                                                                                                                                                                                           |             |      |           |
| A                                   | Actuators; 230V power output; include for window junction boxes and window controller points; include for connection into existing control panels; to windows and curtain walls                                           | 70          | nr   |           |
| B                                   | Actuators; 230V power output; include for window junction boxes and window controller points; include for connection into existing control panels; to rooflights                                                          | 26          | nr   |           |
|                                     | <u>CABLING</u>                                                                                                                                                                                                            |             |      |           |
|                                     | <u>Supply and install; cabling/circuits; including tie- ins, connections, terminations, supports, earthing, bonding, insulation, protection and the like; all in accordance with Engineers specification and drawings</u> |             |      |           |
| C                                   | All cabling associated with general power installation                                                                                                                                                                    | 1           | item |           |
|                                     | <u>FINAL CIRCUIT (Connection and terminations)</u>                                                                                                                                                                        |             |      |           |
|                                     | <u>Final circuits to general lighting and emergency lighting installations with cable size in accordance with Introba specification</u>                                                                                   |             |      |           |
|                                     | <u>Actuators</u>                                                                                                                                                                                                          |             |      |           |
| D                                   | Actuators; 230V power output; include for window junction boxes and window controller points; to windows and curtain walls                                                                                                | 70          | nr   |           |
| E                                   | Actuators; 230V power output; include for window junction boxes and window controller points; to rooflights                                                                                                               | 26          | nr   |           |
|                                     | <u>GENERAL</u>                                                                                                                                                                                                            |             |      |           |
|                                     | <u>Testing and commissioning</u>                                                                                                                                                                                          |             |      |           |
| F                                   | General earthing and bonding                                                                                                                                                                                              | 1           | item |           |
| G                                   | Testing and commissioning to general power installations; in accordance with Engineers specification                                                                                                                      | 1           | item |           |
| H                                   | Operating and maintainance manuals                                                                                                                                                                                        | 1           | item |           |
| I                                   | As built drawings                                                                                                                                                                                                         | 1           | item |           |
| J                                   | Identification plates, labels and the like                                                                                                                                                                                | 1           | item |           |
| (62) GENERAL SERVICES INSTALLATIONS |                                                                                                                                                                                                                           |             |      |           |

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| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                        | (63) LIGHTING SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                        | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                      | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | note |           |
| B                      | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                      | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                      | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                      | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                      | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                      | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                      | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                      | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                      | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                      | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                      | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                      | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                      | There shall be no more than ten luminaires per circuit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| O                      | Toilets circuits to be RCBO protected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| P                      | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| Q                      | All elements of the lighting and emergency lighting installation shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
|                        | <u>STRIP OUT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                        | <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |

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| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quantity | Rate | Total (€)   |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      | (Continued) |
| A                      | <u>Isolate, disconnect and remove existing electrical installations; include for disposal offsite as directed by the Client/ ER ; all in accordance with Engineers drawing GF- D- E- 63001, 01- D- E- 63001, 02- D- E- 63001</u>                                                                                                                                                                                                         |          |      |             |
|                        | Existing light installations                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| B                      | <u>ALTERATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
|                        | <u>ALTERATIONS TO EXISTING WORKS</u>                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |
| B                      | <u>Carefully isolate and remove all existing electrical fittings in locations where ceilings are to be removed (removal of ceilings e.m); fittings including but not limited to lighting, fire alarm, security, communication, cable trays and cables; set aside fittings; include for reinstallation of light fittings upon completion of works to the ceiling (works to ceiling e.m); make good all adjacent works upon completion</u> |          |      |             |
|                        | Electrical fittings and installations                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| C                      | <u>LIGHTING AND EMERGENCY LIGHTING INSTALLATION</u>                                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
|                        | <u>FITTINGS AND ACCESSORIES ASSOCIATED WITH TERMINAL EQUIPMENT</u>                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
| C                      | <u>Supply and install; including fixing and accessories; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                                                                                 |          |      |             |
|                        | Lighting control system                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| D                      | <u>Switches</u>                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
|                        | Scene setting switch                                                                                                                                                                                                                                                                                                                                                                                                                     | 38       | nr   |             |
| E                      | <u>LED light fittings</u>                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
|                        | 1 Way switch                                                                                                                                                                                                                                                                                                                                                                                                                             | 3        | nr   |             |
| F                      | LED light fittings; Type L2ae                                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr   |             |
| G                      | LED light fittings; Type L2a                                                                                                                                                                                                                                                                                                                                                                                                             | 20       | nr   |             |
| H                      | LED light fittings; Type L2b                                                                                                                                                                                                                                                                                                                                                                                                             | 2        | nr   |             |
| I                      | LED light fittings; Type L2be                                                                                                                                                                                                                                                                                                                                                                                                            | 3        | nr   |             |
| J                      | LED light fittings; Type L3a                                                                                                                                                                                                                                                                                                                                                                                                             | 92       | nr   |             |
| K                      | LED light fittings; Type L3ae                                                                                                                                                                                                                                                                                                                                                                                                            | 8        | nr   |             |
| L                      | LED light fittings; Type L4a                                                                                                                                                                                                                                                                                                                                                                                                             | 17       | nr   |             |
| M                      | LED light fittings; Type L4ae                                                                                                                                                                                                                                                                                                                                                                                                            | 5        | nr   |             |
| N                      | LED light fittings; Type P2a                                                                                                                                                                                                                                                                                                                                                                                                             | 6        | nr   |             |
| O                      | LED light fittings; Type P2ae                                                                                                                                                                                                                                                                                                                                                                                                            | 6        | nr   |             |
| P                      | LED light fittings; Type L5a                                                                                                                                                                                                                                                                                                                                                                                                             | 15       | nr   |             |
| Q                      | LED light fittings; Type W1a                                                                                                                                                                                                                                                                                                                                                                                                             | 16       | nr   |             |
| R                      | LED light fittings; Type L9a                                                                                                                                                                                                                                                                                                                                                                                                             | 22       | nr   |             |
| S                      | LED light fittings; Type L8a                                                                                                                                                                                                                                                                                                                                                                                                             | 26       | nr   |             |
| T                      | LED light fittings; Type L8ae                                                                                                                                                                                                                                                                                                                                                                                                            | 8        | nr   |             |
| U                      | LED light fittings; Type L9ae                                                                                                                                                                                                                                                                                                                                                                                                            | 6        | nr   |             |
| V                      | LED light fittings; Type L9b                                                                                                                                                                                                                                                                                                                                                                                                             | 5        | nr   |             |
| W                      | LED light fittings; Type W8                                                                                                                                                                                                                                                                                                                                                                                                              | 3        | nr   |             |
| X                      | LED light fittings; Type W1ae                                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr   |             |
| Y                      | LED light fittings; Type X1ae                                                                                                                                                                                                                                                                                                                                                                                                            | 7        | nr   |             |

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| Description            |                                                                                                                                                                                                                          | Quantity | Rate | Total (€)   |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                          |          |      | (Continued) |
| A                      | LED light fittings; Type X2a                                                                                                                                                                                             | 7        | nr   |             |
| B                      | LED light fittings; Type X2ae                                                                                                                                                                                            | 2        | nr   |             |
| C                      | Allow for the replacement of damaged LED light fittings                                                                                                                                                                  | 30       | nr   |             |
|                        | <u>Emergency lighting</u>                                                                                                                                                                                                |          |      |             |
| D                      | Presence detector                                                                                                                                                                                                        | 6        | nr   |             |
|                        | <u>CABLING</u>                                                                                                                                                                                                           |          |      |             |
|                        | <u>Supply and install; cabling/circuits; including tie-ins, connections, terminations, supports, earthing, bonding, insulation, protection and the like; all in accordance with Engineers specification and drawings</u> |          |      |             |
| E                      | All cabling associated with general lighting installation                                                                                                                                                                | 1        | item |             |
| F                      | All cabling associated with emergency lighting installation                                                                                                                                                              | 1        | item |             |
|                        | <u>FINAL CIRCUIT (Connection and terminations)</u>                                                                                                                                                                       |          |      |             |
|                        | <u>Final circuits to general lighting and emergency lighting installations with cable size in accordance with Introba specification</u>                                                                                  |          |      |             |
| G                      | Lighting control system                                                                                                                                                                                                  | 1        | item |             |
|                        | <u>Switches</u>                                                                                                                                                                                                          |          |      |             |
| H                      | Scene setting switch                                                                                                                                                                                                     | 38       | nr   |             |
| I                      | 1 Way switch                                                                                                                                                                                                             | 3        | nr   |             |
|                        | <u>LED light fittings</u>                                                                                                                                                                                                |          |      |             |
| J                      | LED light fittings; Type L2ae                                                                                                                                                                                            | 2        | nr   |             |
| K                      | LED light fittings; Type L2a                                                                                                                                                                                             | 20       | nr   |             |
| L                      | LED light fittings; Type L2b                                                                                                                                                                                             | 2        | nr   |             |
| M                      | LED light fittings; Type L2be                                                                                                                                                                                            | 3        | nr   |             |
| N                      | LED light fittings; Type L3a                                                                                                                                                                                             | 92       | nr   |             |
| O                      | LED light fittings; Type L3ae                                                                                                                                                                                            | 8        | nr   |             |
| P                      | LED light fittings; Type L4a                                                                                                                                                                                             | 17       | nr   |             |
| Q                      | LED light fittings; Type L4ae                                                                                                                                                                                            | 5        | nr   |             |
| R                      | LED light fittings; Type P2a                                                                                                                                                                                             | 6        | nr   |             |
| S                      | LED light fittings; Type P2ae                                                                                                                                                                                            | 6        | nr   |             |
| T                      | LED light fittings; Type L5a                                                                                                                                                                                             | 15       | nr   |             |
| U                      | LED light fittings; Type W1a                                                                                                                                                                                             | 16       | nr   |             |
| V                      | LED light fittings; Type L9a                                                                                                                                                                                             | 22       | nr   |             |
| W                      | LED light fittings; Type L8a                                                                                                                                                                                             | 26       | nr   |             |
| X                      | LED light fittings; Type L8ae                                                                                                                                                                                            | 8        | nr   |             |
| Y                      | LED light fittings; Type L9ae                                                                                                                                                                                            | 6        | nr   |             |
| Z                      | LED light fittings; Type L9b                                                                                                                                                                                             | 5        | nr   |             |
| AA                     | LED light fittings; Type W8                                                                                                                                                                                              | 3        | nr   |             |
| AB                     | LED light fittings; Type W1ae                                                                                                                                                                                            | 2        | nr   |             |
| AC                     | LED light fittings; Type X1ae                                                                                                                                                                                            | 7        | nr   |             |
| AD                     | LED light fittings; Type X2a                                                                                                                                                                                             | 7        | nr   |             |

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| Description            |                                                                                                         | Quantity | Rate | Total (Γ)   |
|------------------------|---------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (63) LIGHTING SERVICES |                                                                                                         |          |      | (Continued) |
| A                      | LED light fittings; Type X2ae<br><u>Emergency lighting</u>                                              | 2        | nr   |             |
| B                      | Presence detector<br><u>GENERAL</u><br><u>Testing and commissioning</u>                                 | 6        | nr   |             |
| C                      | General earthing and bonding                                                                            | 1        | item |             |
| D                      | Testing and commissioning to general lighting installations; in accordance with Engineers specification | 1        | item |             |
| E                      | Operating and maintainance manuals                                                                      | 1        | item |             |
| F                      | As built drawings                                                                                       | 1        | item |             |
| G                      | Identification plates, labels and the like                                                              | 1        | item |             |
| (63) LIGHTING SERVICES |                                                                                                         |          |      |             |

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| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity |      | Rate | Total (Γ) |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-----------|
| (68) MECHANICAL WIRING |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |      |           |
|                        | (68) MECHANICAL WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |      |           |
|                        | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |      |           |
| A                      | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | note |      |           |
| B                      | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |      |           |
| C                      | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |      |           |
| D                      | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |      |           |
| E                      | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |      |           |
| F                      | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |      |           |
| G                      | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |      |           |
| H                      | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| I                      | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |      |           |
| J                      | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |      |           |
| K                      | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |      |           |
| L                      | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |      |           |
| M                      | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |      |           |
| N                      | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |      |           |
| O                      | All elements of the mechanical wiring installation shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |      |           |
|                        | MECHANICAL WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |      |           |
|                        | <u>FITTINGS INCLUDING ACCESSORIES ASSOCIATED WITH MECHANICAL WIRING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |      |           |
|                        | <u>Supply and installation of fittings; all in accordance with Engineers specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |      |           |
| P                      | to mechanical installations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |      |           |
|                        | <u>CABLING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |      |           |
|                        | <u>Supply and install cabling; all in accordance with Engineers specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |      |           |

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| Description                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (69) BWIC ELECTRICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | (69) BUILDERS WORKS IN CONNECTION WITH ELECTRICAL INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                  | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing register                                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| B                                  | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                                  | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                    | <u>BUILDERS WORKS IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>ATTENDANCES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                    | <u>Provide or the following general and specialist attendance:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| F                                  | Provide for unloading, hoisting / crange and distribution of materials, plant or equipment too designated final positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
| G                                  | Provide for weatherproof covered storage accomodation /workshop facility for materials, plant, equipment and tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| H                                  | Provide for temporary power and power for commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |           |
| I                                  | Provide for specialist scaffolding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| J                                  | Provide for temporary lighting and water supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| K                                  | Provide for clearing away and disposal of rubbish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>SUNDRIES AND BUILDERS WORK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>Sundries</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| L                                  | marking the positions of holes , mortices, chases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>Chases</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| M                                  | chases for concealed conduit; include for making good upon completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |           |
|                                    | <u>Forming opes in new plasterboard ceilings; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| N                                  | < = 200mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
|                                    | <u>Forming opes in existing plasterboard ceilings; include for making good holes where light fittings were removed; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
| O                                  | < = 200mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
|                                    | <u>Timber grounds for ceiling mounted/wall mounted electrical fittings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (77) SOFT FURNISHINGS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (77) SOFT FURNISHINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                     | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | FITTINGS, EQUIPMENT AND FURNITURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                       | <u>SOFT FURNISHINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                       | <u>Manually operated roller blinds; mounted within or above window reveals; manual operation via chain mechanism with smooth, self braking clutch mechanism; suitable for glare and solar control in office environments; include for all necessary accessories; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                                                                                              |          |      |           |
|                       | <u>Roller blinds to external windows</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                       | <u>All blinds below are to the Annex building:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| F                     | Blinds; to opening size approx 870 x 1130mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
| G                     | Blinds; to opening size approx 1800 x 1150mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        | nr   |           |
| H                     | Blinds; to opening size approx 2965 x 1130mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| I                     | Blinds; to opening size approx 3370 x 1140mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| J                     | Blinds; to opening size approx 2160 x 560mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr   |           |
| K                     | Blinds; to opening size approx 1540 x 590mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr   |           |
| L                     | Blinds; to opening size approx 570 x 590mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2        | nr   |           |
| M                     | Blinds; to opening size approx 2250 x 1145mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| N                     | Blinds; to opening size approx 7072 x 1145mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| O                     | Blinds; to opening size approx 540 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3        | nr   |           |
| P                     | Blinds; to opening size approx 4235 x 742mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
| Q                     | Blinds; to opening size approx 4088 x 850mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
| R                     | Blinds; to opening size approx 1400 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3        | nr   |           |
| S                     | Blinds; to opening size approx 1495 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4        | nr   |           |

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| Description           |                                                         | Quantity | Rate | Total (€)   |
|-----------------------|---------------------------------------------------------|----------|------|-------------|
| (77) SOFT FURNISHINGS |                                                         |          |      | (Continued) |
| A                     | Blinds; to opening size approx 2135 x 650mm high        | 3        | nr   |             |
| B                     | Blinds; to opening size approx 1525 x 650mm high        | 1        | nr   |             |
| C                     | Blinds; to opening size approx 2000 x 650mm high        | 4        | nr   |             |
| D                     | Blinds; to opening size approx 440 x 650mm high         | 2        | nr   |             |
| E                     | Blinds; to opening size approx 1325 x 650mm high        | 1        | nr   |             |
| F                     | Blinds; to opening size approx 1231 x 850mm high        | 1        | nr   |             |
| G                     | Blinds; to opening size approx 4530 x 850mm high        | 1        | nr   |             |
| H                     | Blinds; to opening size approx 1620 x 1150mm high       | 2        | nr   |             |
|                       | <u>All blinds below are to the Architects building:</u> |          |      |             |
| I                     | Blinds; to opening size approx 1200 x 1350mm high       | 1        | nr   |             |
| J                     | Blinds; to opening size approx 1390 x 1210mm high       | 2        | nr   |             |
| K                     | Blinds; to opening size approx 1180 x 3200mm high       | 1        | nr   |             |
| L                     | Blinds; to opening size approx 450 x 1240mm high        | 4        | nr   |             |
| M                     | Blinds; to opening size approx 570 x 1240mm high        | 6        | nr   |             |
| N                     | Blinds; to opening size approx 210 x 1340mm high        | 1        | nr   |             |
| O                     | Blinds; to opening size approx 570 x 570mm high         | 4        | nr   |             |
| P                     | Blinds; to opening size approx 1770 x 1230mm high       | 4        | nr   |             |
| Q                     | Blinds; to opening size approx 1380 x 1240mm high       | 2        | nr   |             |
| R                     | Blinds; to opening size approx 2310 x 1140mm high       | 6        | nr   |             |
| S                     | Blinds; to rooflights; size approx 1007 x 1677mm high   | 16       | nr   |             |
|                       | <u>All blinds below are to the Aras HQ building:</u>    |          |      |             |
| T                     | Blinds; to opening size approx 1170 x 1860mm high       | 46       | nr   |             |
| U                     | Blinds; to opening size approx 1170 x 2156mm high       | 6        | nr   |             |
| V                     | Blinds; to opening size approx 950 x 1620mm high        | 4        | nr   |             |
| W                     | Blinds; to opening size approx 1170 x 1800mm high       | 76       | nr   |             |
| X                     | Blinds; to rooflights; size 940 x 1650mm high           | 1        | nr   |             |
| Y                     | Blinds; to rooflights; size 940 x 1610mm high           | 1        | nr   |             |
| Z                     | Blinds; to rooflights; size 1000 x 1650mm high          | 59       | nr   |             |
| (77) SOFT FURNISHINGS |                                                         |          |      |             |

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| Description                                   |         | Quantity | Rate | Total (€) |
|-----------------------------------------------|---------|----------|------|-----------|
| COLLECTION SUMMARY                            | PAGE NO |          |      |           |
| PREAMBLES                                     | 1 - 2   |          |      |           |
| ARAS AN CHONTAE                               | 4       |          |      |           |
| (06) PRELIMINARIES                            | 5 - 27  |          |      |           |
| (11) DEMOLITIONS AND ALTERATIONS              | 29 - 31 |          |      |           |
| (21) EXTERNAL WALLS                           | 33 - 34 |          |      |           |
| (31) EXTERNAL WALL COMPLETIONS                | 36 - 49 |          |      |           |
| (37) ROOF COMPLETIONS                         | 51 - 53 |          |      |           |
| (41) WALL FINISHES EXTERNALLY                 | 55 - 56 |          |      |           |
| (42) WALL FINISHES INTERNALLY                 | 58 - 59 |          |      |           |
| (45) CEILING FINISHES                         | 61 - 63 |          |      |           |
| (46) AIRTIGHTNESS                             | 65      |          |      |           |
| (47) ROOF FINISHES                            | 66 - 67 |          |      |           |
| (51) HEATING CENTRE                           | 69 - 71 |          |      |           |
| (53) WATER DISTRIBUTION                       | 73 - 75 |          |      |           |
| (58) BWIC MECHANICAL INSTALLATIONS            | 77 - 78 |          |      |           |
| (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION | 80 - 81 |          |      |           |
| (62) GENERAL SERVICES INSTALLATIONS           | 83 - 84 |          |      |           |
| (63) LIGHTING SERVICES                        | 86 - 89 |          |      |           |
| (68) MECHANICAL WIRING                        | 91 - 92 |          |      |           |
| (69) BWIC ELECTRICAL INSTALLATIONS            | 94 - 95 |          |      |           |
| (77) SOFT FURNISHINGS                         | 97 - 98 |          |      |           |
| Total Amount:                                 |         |          |      |           |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quantity | Rate | Total (€) |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                    | (06) PRELIMINARIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| A                  | If the Contractor does not separately price any item in these Preliminaries he shall be deemed nevertheless to have allowed in his prices or in his rates for the cost of compliance with all the requirements of these Preliminaries. All the Preliminaries shall apply to the whole of the Works. The Contractor will be required to submit a detailed breakdown of his pricing of these Preliminaries before acceptance of his Tender.                                                                          |          |      |           |
| B                  | It will be a condition precedent of the award of this contract that the successful tenderer provides a full breakdown of all costs associated with the overall management and coordination of the construction project including all costs associated with works items, methods, sequences, phasing etc identified within this section of the BQ; this should include the split of all time related and fixed costs for erection and dismantling or setting up and dismantling of all temporary works requirements |          |      |           |
|                    | PRELIMINARY PARTICULARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                    | <u>PROJECT, PARTIES AND CONSULTANTS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                    | <u>Name of project</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| C                  | Energy Upgrades at Westport Leisure Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                    | <u>Location of project</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| D                  | The Westport Leisure Centre site is located at Westport Leisure Centre, James Street, Cahernamart, Westport, Co. Mayo, F28 FN32 and is shown on Mosart site location drawings 04- XX- DR- A- 0001- D2, 04- XX- DR- A- 0002- D2                                                                                                                                                                                                                                                                                     |          |      |           |
|                    | <u>General description of the works</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| E                  | The proposed works comprise replacement and upgrades to selected fabric elements and mechanical and electrical systems at the Westport Leisure Centre                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
|                    | <u>Name and address of the Employer</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| F                  | The 'Employer' shall mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
| G                  | Mayo County Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| H                  | Aras An Chontae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| I                  | The Mall, Castlebar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| J                  | Co. Mayo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| K                  | F23 WF90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                    | <u>Names and addresses of the Consultants</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| L                  | The term 'Employer's Representative' shall mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| M                  | Rogerson Reddan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| N                  | Park House                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| O                  | Arthurs Quay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| P                  | Co. Limerick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| Q                  | V94 YP69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| R                  | The Architect is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| S                  | MosArt Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| T                  | 3rd Floor Clermont House                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
| U                  | Wicklow County Campus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
| V                  | Co. Wicklow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quantity | Rate | Total (€)   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      | (Continued) |
| A                  | A67 X566                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| B                  | The Services Consultant is:                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |             |
| C                  | Introba Ireland Ltd                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
| D                  | Cathedral Court                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| E                  | New Street South, The Liberties                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| F                  | Dublin 08                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| G                  | D08 C525                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| H                  | The Quantity Surveyor is:                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| I                  | Currie & Brown (Ireland) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| J                  | Cathedral Court                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| K                  | New Street South, The Liberties                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| L                  | Dublin 08                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| M                  | D08 C525                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| N                  | The Contractor shall note that the Consultants as listed and any other Consultants appointed from time to time by the Employer shall have access to the site to inspect all or any of the works. Their instructions and directions shall be carried out by the Contractor who shall co-operate with them as required taking into account that the Employer's Representative shall have final and binding say in the question of directions. |          |      |             |
|                    | <u>DESCRIPTION OF THE SITE</u>                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |             |
| O                  | Site details are as shown on MosArt drawings 04- XX- DR- A- 0001- D2, 04- XX- DR- A- 0002- D2                                                                                                                                                                                                                                                                                                                                               |          |      |             |
|                    | <u>Works Scope</u>                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| P                  | The upgrades to Westport Leisure Centre will entail the strip out and replacement of fabric elements which will include windows, doors; roof and ceiling finishes. It will also include the replacement of existing gas boilers with Air Source Heat Pumps, replacement of existing AHUs serving the pools and the upgrade of electricity supply to accommodate the new ASHPs and AHUs.                                                     |          |      |             |
| Q                  | The works to the Westport Leisure Centre are to be phased as follows:                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
| R                  | ^^^^Phase 1 - Reception and office areas                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |             |
| S                  | ^^^^Phase 2 - Swimming pool area                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
| T                  | The Contractor shall make himself aware of the presence and location of existing over and underground services and shall take all necessary precautions to avoid interference or damage to the services during the execution of the works; for details see existing site services and topographical drawings and existing site surveys and investigations reports issued as part of this tender                                             |          |      |             |
| U                  | Tenderers are required to visit the site as part of the tender process to familiarise themselves with existing site conditions at the Westport Leisure centre ; details of the site visits are as per the ITT document issued with this tender                                                                                                                                                                                              |          |      |             |
|                    | <u>DRAWINGS AND OTHER DOCUMENTS</u>                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
|                    | <u>The following drawings and other documents were used to prepare the Bill of Quantities</u>                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| V                  | The Architect's drawings, specifications, schedules and reports listed on MosArt drawing registers                                                                                                                                                                                                                                                                                                                                          |          |      |             |
| W                  | The Services Engineers drawings, specifications, schedules and reports listed on MosArt drawing registers                                                                                                                                                                                                                                                                                                                                   |          |      |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity    |      | Rate | Total (€) |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (Continued) |      |      |           |
| A                  | <p>The Contractor is advised that the Bill of Quantities and Drawings are all complementary to each other and should be read in conjunction with each other; The Contractor is responsible for clarifying any ambiguities or conflicting information between the drawings, specifications and Bill of Quantities through the clarification process as identified within the Instructions to Tenderers documents issued as part of the tender package</p> <p>CONTRACT</p> <p><u>FORM OF CONTRACT</u></p>                                                                                                                      |             |      |      |           |
| B                  | The Articles of Agreement and Conditions of Contract shall be the Public Works Contract for Building Works Designed by the Employer (PW- CF1) which is current at the time of tendering                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |      |           |
| C                  | <p>The Articles provide for the inclusion of a Bill of Quantities (otherwise known as the pricing document) as a Contract Document.</p> <p><u>ARTICLES</u></p> <p><u>The articles of agreement require the contractor and employer to agree to the following:</u></p>                                                                                                                                                                                                                                                                                                                                                        |             |      |      |           |
| D                  | Article 1: The Contractor shall execute and complete the Works subject to and in accordance with the Contract and shall comply with its other obligations in the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |           |
| E                  | Article 2: The Employer shall pay the Contractor the Contract Sum subject to and in accordance with the Contract and shall comply with its other obligations in the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1           | item |      |           |
| F                  | Article 3: The initial Contract Sum is a lump sum and shall only be adjusted when the Contract says so.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1           | item |      |           |
| G                  | Article 4: The Contractor has satisfied itself before entering into the Contract of all the circumstances that may affect the cost of executing and completing the Works and of the correctness and sufficiency of the Contract Sum to cover the cost of performing the Contract. The Contractor has included in the initial Contract Sum allowances for all risks, customs, policies, practices, and other circumstances that may affect its performance of the Contract, whether they could or could not have been foreseen, except for events for which the Contract provides for adjustment of the initial Contract Sum. | 1           | item |      |           |
| H                  | Article 5: The Contract consists of the following documents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1           | item |      |           |
| I                  | the agreement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |      |      |           |
| J                  | the Contractors tender and the Letter of Acceptance and any post- tender clarifications listed in it                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |      |      |           |
| K                  | the Conditions of Contract and completed Schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |      |      |           |
| L                  | <p>the Works Requirements, the PSDP plan, the completed Pricing Document and the Form of Tender &amp; Schedule</p> <p><u>CONDITIONS</u></p> <p><u>A schedule of the clause headings of the Conditions of Contract are set out hereunder for pricing :-</u></p>                                                                                                                                                                                                                                                                                                                                                               |             |      |      |           |
| M                  | 1. THE CONTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1           | item |      |           |
| N                  | 1.1 Definitions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |      |      |           |
| O                  | 1.2 Interpretation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      |      |           |
| P                  | 1.3 Inconsistencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |      |           |
| Q                  | 1.4 Pricing Document and Works Proposals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |      |      |           |
| R                  | 1.5 Performance Bond                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |      |      |           |
| S                  | 1.6 Reliance documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |      |      |           |
| T                  | 1.7 Joint Ventures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |      |      |           |

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| Description        |                                                                                                                        | Quantity    |      | Rate | Total (€) |
|--------------------|------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (06) PRELIMINARIES |                                                                                                                        | (Continued) |      |      |           |
| A                  | 1.8 Assignment                                                                                                         |             |      |      |           |
| B                  | 1.9 Miscellaneous                                                                                                      |             |      |      |           |
| C                  | 1.10 Background Information                                                                                            |             |      |      |           |
| D                  | 2.0 THE LAW                                                                                                            | 1           | item |      |           |
| E                  | 2.1 Law governing the Contract                                                                                         |             |      |      |           |
| F                  | 2.2 Compliance with Legal Requirements                                                                                 |             |      |      |           |
| G                  | 2.3 Consents                                                                                                           |             |      |      |           |
| H                  | 2.4 Project Supervisor                                                                                                 |             |      |      |           |
| I                  | 2.5 Safety, Health and Welfare at Work Act 2005 and Safety, Health and Welfare at Work (Construction) Regulations 2013 |             |      |      |           |
| J                  | 2.6 Ethics in Public Office                                                                                            |             |      |      |           |
| K                  | 2.7 Legal Opinion                                                                                                      |             |      |      |           |
| L                  | 2.8 Data Protection                                                                                                    |             |      |      |           |
| M                  | 3.0 LOSS, DAMAGE AND INJURY                                                                                            | 1           | item |      |           |
| N                  | 3.1 Employer's Risks of Loss and Damage to the Works                                                                   |             |      |      |           |
| O                  | 3.2 Care of the Works                                                                                                  |             |      |      |           |
| P                  | 3.3 Insurance of the Works and Other Risk Items                                                                        |             |      |      |           |
| Q                  | 3.4 Contractor's Indemnity                                                                                             |             |      |      |           |
| R                  | 3.5 Employer's Indemnity                                                                                               |             |      |      |           |
| S                  | 3.6 Public Liability and Employer's Liability Insurances                                                               |             |      |      |           |
| T                  | 3.7 Professional Indemnity Insurance                                                                                   |             |      |      |           |
| U                  | 3.8 Existing Facilities and Use or Occupation by Employer                                                              |             |      |      |           |
| V                  | 3.9 General requirements concerning insurance                                                                          |             |      |      |           |
| W                  | 3.10 Limitation on liability                                                                                           |             |      |      |           |
| X                  | 4.0 MANAGEMENT                                                                                                         | 1           | item |      |           |
| Y                  | 4.1 Co- operation                                                                                                      |             |      |      |           |
| Z                  | 4.2 Contractor's Representative and Supervisor                                                                         |             |      |      |           |
| AA                 | 4.3 Employer's Representative                                                                                          |             |      |      |           |
| AB                 | 4.4 Employer's Representative's Communications                                                                         |             |      |      |           |
| AC                 | 4.5 Instructions                                                                                                       |             |      |      |           |
| AD                 | 4.6 Works Proposals                                                                                                    |             |      |      |           |
| AE                 | 4.7 Required Contractor Submissions                                                                                    |             |      |      |           |
| AF                 | 4.8 Value Engineering                                                                                                  |             |      |      |           |
| AG                 | 4.9 Programme                                                                                                          |             |      |      |           |
| AH                 | 4.10 Progress Reports                                                                                                  |             |      |      |           |
| AI                 | 4.11 Notice and time for Employer's obligations                                                                        |             |      |      |           |
| AJ                 | 4.12 Documents                                                                                                         |             |      |      |           |
| AK                 | 4.13 Contractor's Management                                                                                           |             |      |      |           |
| AL                 | 4.14 Communications                                                                                                    |             |      |      |           |

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| Description        |                                                                  | Quantity |      | Rate | Total (Γ)   |
|--------------------|------------------------------------------------------------------|----------|------|------|-------------|
| (06) PRELIMINARIES |                                                                  |          |      |      | (Continued) |
| A                  | 4.15 Meetings                                                    |          |      |      |             |
| B                  | 4.16 Confidentiality and Secrecy                                 |          |      |      |             |
| C                  | 4.17 Contractor's Things Not to be Removed                       |          |      |      |             |
| D                  | 4.18 Contractor's Documents                                      |          |      |      |             |
| E                  | 5.0 CONTRACTORS PERSONNEL                                        | 1        | item |      |             |
| F                  | 5.1 Contractor's Personnel to carry out Contractor's Obligations |          |      |      |             |
| G                  | 5.2 Qualifications and Competence                                |          |      |      |             |
| H                  | 5.3 Pay and Conditions of Employment                             |          |      |      |             |
| I                  | 5.4 Subcontractors and Specialists                               |          |      |      |             |
| J                  | 5.5 Collateral Warranties                                        |          |      |      |             |
| K                  | 5.6 Removal of Workers                                           |          |      |      |             |
| L                  | 5.7 Weekly Labour Records                                        |          |      |      |             |
| M                  | 5.8 Ancillary Certificates                                       |          |      |      |             |
| N                  | 6.0 PROPERTY                                                     | 1        | item |      |             |
| O                  | 6.1 Ownership of Work Items                                      |          |      |      |             |
| P                  | 6.2 Infringement of Property Rights                              |          |      |      |             |
| Q                  | 6.3 Works Requirements                                           |          |      |      |             |
| R                  | 6.4 Rights in Contractor's Documents                             |          |      |      |             |
| S                  | 7.0 THE SITE                                                     | 1        | item |      |             |
| T                  | 7.1 Lands made available for the Works                           |          |      |      |             |
| U                  | 7.2 Trespassers                                                  |          |      |      |             |
| V                  | 7.3 Contractor Responsible for all Site Operations               |          |      |      |             |
| W                  | 7.4 Services for Employer's Facilities                           |          |      |      |             |
| X                  | 7.5 Security and Safety of the Site and Nuisance                 |          |      |      |             |
| Y                  | 7.6 Other Contractors                                            |          |      |      |             |
| Z                  | 7.7 Setting Out the Works                                        |          |      |      |             |
| AA                 | 7.8 Archaeological Objects and Human Remains                     |          |      |      |             |
| AB                 | 7.9 Access and Facilities                                        |          |      |      |             |
| AC                 | 7.10 Condition of site on Completion                             |          |      |      |             |
| AD                 | 7.11 Working Times                                               |          |      |      |             |
| AE                 | 8.0 QUALITY, TESTING AND DEFECTS                                 | 1        | item |      |             |
| AF                 | 8.1 Standards of Workmanship and Works Items                     |          |      |      |             |
| AG                 | 8.2 Quality Assurance                                            |          |      |      |             |
| AH                 | 8.3 Inspection                                                   |          |      |      |             |
| AI                 | 8.4 Tests                                                        |          |      |      |             |
| AJ                 | 8.5 Defects                                                      |          |      |      |             |
| AK                 | 8.6 Defects Period                                               |          |      |      |             |
| AL                 | 8.7 Defects Certificate                                          |          |      |      |             |

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| (06) PRELIMINARIES |                                                                          |          |      | (Continued) |
| A                  | 9.0 TIME AND COMPLETION                                                  | 1        | item |             |
| B                  | 9.1 Starting Date                                                        |          |      |             |
| C                  | 9.2 Suspension                                                           |          |      |             |
| D                  | 9.3 Delay and Extension of Time                                          |          |      |             |
| E                  | 9.4 Programme Contingency                                                |          |      |             |
| F                  | 9.5 Omissions and Reduction of Time                                      |          |      |             |
| G                  | 9.6 Substantial Completion                                               |          |      |             |
| H                  | 9.7 Taking Over Part of the Works                                        |          |      |             |
| I                  | 9.8 Liquidated Damages                                                   |          |      |             |
| J                  | 10.0 CLAIMS AND ADJUSTMENTS                                              | 1        | item |             |
| K                  | 10.1 Compensation Event                                                  |          |      |             |
| L                  | 10.2 Contractor to Pay Employer's Cost of Checking Quantities            |          |      |             |
| M                  | 10.3 Contractor Claims                                                   |          |      |             |
| N                  | 10.4 Proposed Instructions                                               |          |      |             |
| O                  | 10.5 Employer's Representative's Determination                           |          |      |             |
| P                  | 10.6 Adjustments to the Contract Sum                                     |          |      |             |
| Q                  | 10.7 Delay Cost                                                          |          |      |             |
| R                  | 10.8 Not Used                                                            |          |      |             |
| S                  | 10.9 Employer's Claims                                                   |          |      |             |
| T                  | 11.0 PAYMENT                                                             | 1        | item |             |
| U                  | 11.1 Interim Payment                                                     |          |      |             |
| V                  | 11.2 Unfixed Works Items                                                 |          |      |             |
| W                  | 11.3 Retention                                                           |          |      |             |
| X                  | 11.4 Full payment                                                        |          |      |             |
| Y                  | 11.5 Final Statement                                                     |          |      |             |
| Z                  | 11.6 Time for Payment and Interest                                       |          |      |             |
| AA                 | 11.7 Value Added Tax                                                     |          |      |             |
| AB                 | 11.8 Withholding Tax                                                     |          |      |             |
| AC                 | 12.0 TERMINATION                                                         | 1        | item |             |
| AD                 | 12.1 Termination on Contractor Default                                   |          |      |             |
| AE                 | 12.2 Consequences of Default Termination                                 |          |      |             |
| AF                 | 12.3 Suspension by the Contractor                                        |          |      |             |
| AG                 | 12.4 Termination by the Contractor                                       |          |      |             |
| AH                 | 12.5 Termination at Employer's Election                                  |          |      |             |
| AI                 | 12.6 Consequences of Termination by Contractor or at Employer's Election |          |      |             |
| AJ                 | 12.7 Survival                                                            |          |      |             |
| AK                 | 12.8 Payment                                                             |          |      |             |
| AL                 | 12.9 Reference to Conciliation                                           |          |      |             |

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| Description        |                                                                                                                                                                                                                             | Quantity | Rate | Total (€)   |
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| (06) PRELIMINARIES |                                                                                                                                                                                                                             |          |      | (Continued) |
| A                  | 13.0 DISPUTES                                                                                                                                                                                                               | 1        | item |             |
| B                  | 13.1 Dispute Management Procedure                                                                                                                                                                                           |          |      |             |
| C                  | 13.2 Conciliation                                                                                                                                                                                                           |          |      |             |
| D                  | 13.3 Adjudication                                                                                                                                                                                                           |          |      |             |
| E                  | 13.4 Arbitration                                                                                                                                                                                                            |          |      |             |
| F                  | 13.5 Jurisdiction                                                                                                                                                                                                           |          |      |             |
| G                  | 13.6 Agent for Service                                                                                                                                                                                                      |          |      |             |
| H                  | 13.7 Continuing obligations                                                                                                                                                                                                 |          |      |             |
| I                  | COVID- 19 MANDATORY CLOSURE                                                                                                                                                                                                 |          |      |             |
| J                  | 14.1 Covid- 19 Definitions                                                                                                                                                                                                  |          |      |             |
| K                  | 14.2 Covid- 19 General Provisions                                                                                                                                                                                           |          |      |             |
| L                  | 14.3 Covid- 19 Costs                                                                                                                                                                                                        |          |      |             |
| M                  | PRICE VARIATION                                                                                                                                                                                                             | 1        | item |             |
| N                  | 15.1 Definitions                                                                                                                                                                                                            |          |      |             |
| O                  | 15.2 Contract Sum Adjustment                                                                                                                                                                                                |          |      |             |
| P                  | 15.3 Proportions                                                                                                                                                                                                            |          |      |             |
| Q                  | 15.4 Change in Law                                                                                                                                                                                                          |          |      |             |
| R                  | 15.5 Failure to commence on Time                                                                                                                                                                                            |          |      |             |
| S                  | 15.6 Failure to Complete on Time                                                                                                                                                                                            |          |      |             |
| T                  | 15.7 Excluded Amounts                                                                                                                                                                                                       |          |      |             |
| U                  | 15.8 Revisions of Index Figures                                                                                                                                                                                             |          |      |             |
| V                  | 15.9 Permitted Increases and Permitted Decreases for Material Categories and Fuel Categories                                                                                                                                |          |      |             |
| W                  | 15.10 Adjustments for Labour                                                                                                                                                                                                |          |      |             |
| X                  | 15.11 Efficiency                                                                                                                                                                                                            |          |      |             |
| Y                  | Appendices to Clause 15                                                                                                                                                                                                     |          |      |             |
| Z                  | Appendix 1 Definitions                                                                                                                                                                                                      |          |      |             |
| AA                 | Appendix 2 Permitted Increases and Decreases for Materials and Fuel                                                                                                                                                         |          |      |             |
| AB                 | Appendix 3 Fuel                                                                                                                                                                                                             |          |      |             |
|                    | <u>SCHEDULE PART 1</u>                                                                                                                                                                                                      |          |      |             |
|                    | <u>The completed Schedule: Part 1 of the Schedule is contained in the Form of Tender. The Contractor shall include for all costs associated with complying with the completed Schedule: Part 1.</u>                         |          |      |             |
| AC                 | Part 1 Fii; Ancillary Certificates will be required from all but not limited to the list of Contractor's Personnel in Schedule Part 1 F(ii)                                                                                 | 1        | item |             |
| AD                 | Part 1G; Substantial completion dates shall be as follows:                                                                                                                                                                  | 1        | item |             |
| AE                 | ^^^^^Westport Leisure Centre shall be 24 calender weeks or 168 calender days from 'starting date' as defined in the contract with liquidated and ascertained damages of € 1500 per week                                     |          |      |             |
| AF                 | Part 1H; Early Completion: The Employers Representative is required to issue the certificate of Substantial Completion if the Works or a Section reaches Substantial Completion before its Date for Substantial Completion. | 1        | item |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Total (€)   |
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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      | (Continued) |
| A                  | Part 1I; Defects Period: The initial Defects Period is one year from the date of Substantial Completion of the Works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| B                  | Part 1J; Sub- clause 5.3.3A(2) for random checks for employment records will form part of the contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | item |             |
| C                  | Part 1K: Contractor is to include for all costs associated with the allocation of risks for delay events, compensation events, delay costs and Adjustments in accordance with the schedule included in the Volume B form of tender and schedule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| D                  | Part 1K: Item 17; A difference between the Contract value of the Works according to the quantities and descriptions in the Bill of Quantities and the Contract value of the Works described in the Works Requirements, because the Pricing Document when compared with the Works Requirements, includes an incorrect quantity or, includes an item that that is not included in the Works Requirements or, excludes an item that is included in the Works Requirements or, gives an incorrect item description AND the difference for an item in, or that should have been in, the Pricing Document is more than €500.- the beforementioned scenario constitutes a compensation event but not a delay event as defined in the contract; Contractor to include for all costs associated with the allocation of this risk | 1        | item |             |
| E                  | Part 1K: In sub- clause 9.4 the programme contingency is 10 Site Working Days of delay caused by Compensation Events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| F                  | Part 1L: Retention percentage is 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |             |
| G                  | Part O: Copyright and all other rights in all documents and works proposals prepared by the Contractor in order to comply with the works transfers to the employer in accordance with 6.4. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
|                    | <u>SCHEDULE PART 2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| H                  | The Contractor shall also include for completing and returning with his tender package the Schedule Part 2 contained in the Form of Tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
|                    | <u>BILL OF QUANTITIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| I                  | This Elemental Bill of Quantities has been measured in accordance with the Agreed Rules of Measurement (ARM 4) and ARM 4 Supplements 1 & 2 as prepared by the Joint Committee established by the Construction Industry Federation and the Society of Chartered Surveyors; any differences in the method of measurement are identified within the preambles and amendments to ARM included in the BQ and by additional measurement notes included at the beginning of each element                                                                                                                                                                                                                                                                                                                                       |          |      |             |
| J                  | The Bill of Quantities is set out in Elemental format in accordance with the National Standard Building Elements, 3rd edition, 1993 and published by An Foras Forbartha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |             |
| K                  | The Contractor at the time of tendering, must furnish the Bill of Quantities fully priced in a non- editable format such as PDF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |             |
| L                  | No Tenderer will be remunerated for any trouble or expense incurred in the preparation of his tender and the lowest tender will not necessarily be accepted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
| M                  | Costs for items which are not priced shall be deemed to be included in other priced items in the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |
| N                  | Please note that in accordance with the Construction Industry Council (CIC) Practice Note CIC- 1/2000 this Bill of Quantities must be priced in Euro only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
| O                  | The Contractor will be deemed to have included in his tender for all Customs and other duties legally payable at the Designated Date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| P                  | The Bill of Quantities shall not be used for ordering of materials. The Contractor shall take his own measurements on site and from the drawings for the ordering of materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |             |
|                    | <u>EXTENSION OF TIME</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                  | <p>The Contract provides for extension of time for legitimate causes. To enable the Contractor to demonstrate the legitimacy of causes for which he makes claims for such extension, he must present his time schedule, in the form of a Bar Chart and accompanied by the Network Analysis to the Employer's Representative. Operations which cannot be carried out continuously by the same group of workmen must not be shown as one activity on this bar chart. Each time any delay is awarded by the Employer's Representative the bar chart must be amended by the Contractor and presented again in its revised form. This must also be done whenever the current bar chart is rendered obsolete due to any circumstances.</p> <p><u>LOCAL AUTHORITY FEES &amp; CHARGES</u></p>                                     | 1        | item |             |
| B                  | <p>The contractor shall include for all costs associated with local authority fees and charges associated with compliance with the works requirements including for the obtaining of all necessary licences, permissions and certificates from the local authority for hoarding, road closures, parking bay closures, waste disposal and any other requirement as a result of completing the works in accordance with the Works Requirements</p>                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| C                  | <p>The Contractor shall pay and indemnify the Employer against liability in respect of any local authority fees or charges legally demandable under any regulation and/or bye- law of any Local Authority or Public Service Company relating to the works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| D                  | <p>The Contractor must obtain permission from the relevant Local Authority to enable him to make connections to the public mains sewer, water and power and pay all costs and charges in connection with same and make good all work disturbed to the satisfaction of the Local Authority Engineers and ER</p> <p><u>OBLIGATIONS &amp; RESTRICATIONS IMPOSED BY THE EMPLOYE R</u></p> <p><u>Access to and possession or use of the site</u></p>                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| E                  | <p>Access to the site will be as shown on the MosArt drawing 04-XX- DR- A- 0001- D2, 04-XX- DR- A- 0002- D2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| F                  | <p>During the execution of works for each phase, the works area must not be used for any purpose other than carrying out the works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| G                  | <p>Access to areas outside of the site boundary must be arranged in advance with the Employer and the Architect and are subject to restrictions including but not limited to timing, working methods, dust, waste, debris and noise control measures and the advance submittal and sign- off by the ER of detailed method statements for any proposed works</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| H                  | <p>The Employer and its professional advisors may by not less than 48 hours prior notice in writing to the Contractor enter any part of the site for the purpose of showing the Building to any third party nominated by the Employer at its sole discretion provided such entry does not interfere with or delay the Works; the contractor shall include here for any costs for compliance with this condition</p>                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| I                  | <p>The contractor shall prepare a project traffic management plan to be agreed in writing with the Employer and ER before the mobilisation to site; this plan shall be detailed in nature and set out the necessary access arrangements for both pedestrian and vehicular traffic accessing the site, including measures to be put in place at the access points to the site from the Delvin Road and any proposed measures to be put in place for the safety of staff, personnel and traffic accessing the other buildings located across the road from the proposed site; this plan shall also include proposed parking arrangements for deliveries and site personnel; the contractor shall include for all costs associated with the traffic management plan including it's management and continuous review here</p> | 1        | item |             |
| J                  | <p>Contractors personnel are required to only use the agreed designated access routes and the Contractor is required to use appropriate directional and safety signage to ensure that all personnel visiting the site and deliveries to the site are fully aware of the access routes; The Contractor is required to maintain these access routes and signage in a suitable and safe condition for the duration of the contract</p>                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |             |
| K                  | <p>All traffic movement into and out of the site compound area and the site itself should be managed by a banksman with priority at all times given to the public; the contractor should include for all costs associated with this requirement here</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (Continued) |      |      |           |
|                    | <u>Deliveries &amp; parking</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |      |           |
| A                  | All deliveries are to be taken directly to the site compound and under no circumstances are any items to be left stored in areas outside of the site; all deliveries must be made to site within normal working hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1           | item |      |           |
| B                  | During construction the contractor shall provide off- carriageway parking for all traffic and personnel associated with the proposed works including delivery and service vehicles/trucks within the site boundary; under no circumstances will contractor personnel vehicles or deliveries be allowed to park outside of the site boundary                                                                                                                                                                                                                                                                                                                                                            | 1           | item |      |           |
| C                  | Parking along the sides of the public roads or within the existing site but outside the site compound area parking areas is strictly prohibited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1           | item |      |           |
| D                  | The Contractor is allow here for all costs associated with the requirements for cranes and other hoisting plant and equipment on site for the works and for compliance with the requirements and restrictions set out in the works requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1           | item |      |           |
|                    | <u>Limitations on working space</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |      |      |           |
| E                  | The contractor shall use the site solely for the purpose of constructing and completing the work and for no other purpose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |           |
| F                  | The Contractor shall at all times during the execution, completion and maintenance of the works keep open and free from obstruction or nuisance of any description, all existing car- parks, roads, laneways, footpaths or other means of communication within, adjacent to or near the site or affected by the works, and shall keep free from obstruction all open spaces in the vicinity of the works other than the space allotted to him within the site boundary. The Contractor shall so arrange to carry out the work in a manner that will cause the least possible interference with the flow of traffic on all existing routes. Compliance with this requirement will be strictly enforced. |             |      |      |           |
| G                  | The contractor shall note that a 'Permit to Work' system will be in operation for any works required outside of the site boundary; the contractor is to obtain permission from the ER if it is necessary to obtain access outside the designated site boundary for any purpose in connection with the works and to indemnify and insure against all charges arising therefrom                                                                                                                                                                                                                                                                                                                          | 1           | item |      |           |
|                    | <u>Limitations on working hours</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |      |      |           |
| H                  | The contractor should note that the official allowable working hours for the project are 8AM - 4PM from Monday to Friday ; no work shall be allowed on bank holidays and Public Holidays. Any works proposed to be completed outside of these working hours must have prior approval by the ER through the method statement and permit to work systems                                                                                                                                                                                                                                                                                                                                                 | 1           | item |      |           |
|                    | <u>The Use or disposal of material found on site</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |      |      |           |
| I                  | If any fossils, coins, antiquities, monuments or other items of value or of archaeological or geological interest or human remains are discovered on or adjacent to the Site unless the Works Requirements say otherwise, the Contractor shall not disturb them, but shall take all necessary steps to preserve them, and shall promptly notify the ER [and comply with any instructions]. As between the Parties, these items shall be the Employers property.                                                                                                                                                                                                                                        | 1           | item |      |           |
| J                  | All waste or materials of no value generated or found on site during construction, including surplus excavation materials, shall be taken off site and only recovered or disposed of at an authorised waste facility with a waste licence or permit in accordance with Waste Management Acts 1996 and 2008 (excluding excavated material retained for reuse on site)                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |           |
|                    | <u>Site Sign Board</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |      |      |           |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | Design, supply and installation of a 3m high x 2m wide site sign raised 1m high from ground level & associated structural steel frame and concrete foundation bases; the contractor should submit the proposed image/logo layout of this sign board for approval to the ER prior to commencement of the works on site; include for all costs associated with the temporary works design certificate, erection and dismantling and removal on completion of the works of this temporary sign as per details and layouts as shown in MosArt works requirements<br><br><u>Hoardings, fences, screens, temporary roofs, temporary name boards and advertising rights.</u>                                                                                                                                                                                                                                                                                            | 1 item   |      |             |
| B                  | The Contractor is to provide for heras fencing and suitable privacy netting to isolate and secure the site boundary until the permanent works requirements perimeter fencing is in place; this fencing should include for sufficient measures for security and visual intrusion and to prevent trespass; the tenderer is to include for all costs associated with these works here                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 item   |      |             |
| C                  | The hoarding is to be erected in demarcated areas as indicated on Mosart drawing 0001- D2- P01, 0002- D2- P01, 0003- D2- P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| D                  | The hoarding shall be provided for the duration of the works for each phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 item   |      |             |
| E                  | The perimeter fencing should have a lockable secure access gate suitable for plant and machinery which can be secured when the site is unoccupied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| F                  | The contractor shall not display nor permit others to display any advertisements on or about the works or site without the prior written consent of the ER<br><br><u>The maintenance of existing services on or over the site</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 item   |      |             |
| G                  | The Contractor is to carry out a full services survey of the site prior to commencing works to confirm locations of utilities if available further to survey contractor may connect to existing water and foul sewer connections for the construction works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| H                  | Provide for the maintenance of all live drainage, water, gas, communication and other mains and power, data and fire safety services on or over the site and for any temporary re- routing for the Contractor's convenience; for details of existing site utilities please see drawings issued for information as part of the tender package and further details included within the PSDP preliminary safety and health plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 item   |      |             |
| I                  | The site may contain various services which will have to be diverted. Prior to commencing work on site the Contractor shall agree a Programme for carrying out the diversion work for all cables and services. No Claim for extension of time or disruption will be entertained arising from the Contractor's failure to make suitable arrangements with the Employer and all Services Authorities involved in this regard. The Contractor shall clearly mark all cables and pipes and protect before moving or diverting. The Contractor is to include for giving notices to the appropriate Authorities for disconnection and reconnection of services and all costs in connection therewith. If any of the services to adjacent buildings are interfered with or damaged then the Contractor will be required to pay all costs in connection therewith. All existing live services which cross the site are to be maintained during the execution of the work | 1 item   |      |             |
| J                  | The Contractor shall keep detailed written records of any areas opened up and testing carried out. These records are to have a written description of the relation to existing elements of the structure. Additionally, details of what was discovered and the procedure that followed as a result. These records to be handed over to the Employer's Representative and Quantity Surveyor at site meetings.<br><br><u>Maintenance of specific temperature, humidity and dust levels.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 item   |      |             |
| K                  | The Contractor shall maintain suitable specific temperature and humidity levels and prepare all surfaces adequately for the correct installation of all materials in accordance with the various manufacturer's installation and application instructions and as per the Architect's and Engineers specification throughout the Contract duration; this includes but is not limited to the pouring of concrete works, the application of screeds and compounds, the laying of floor finishes and the application of wall, ceiling and roof finishes; the tenderer should include for all costs associated with compliance with these requirements here                                                                                                                                                                                                                                                                                                           | 1 item   |      |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quantity | Rate | Total (€)   |
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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      | (Continued) |
| A                  | The Contractor shall include and be deemed to have included within his project programme for sufficient drying times for materials installed, such as but not limited to, concrete and screeds in order to meet programme dates for installation/application of finishes in accordance with the finishes materials manufacturer's guidelines; any remedial works required to achieve the required humidity levels shall be at the contractor's own cost                                                                                                                                              | 1        | item |             |
| B                  | The Contractor shall put in place measures to reduce the possibility of spread of dust and debris throughout the site, the building under construction and most specifically to areas outside of the site boundary; the Contractor should include for all costs associated with compliance with these requirements here; any requirements to clean areas outside of the site as a result of the escape of debris or waste from the site will be at the contractor's cost                                                                                                                             | 1        | item |             |
| C                  | The Contractor is to include here for cleaning of the campus perimeter road and all access routes to the site with a roadsweepers as and when required to maintain all campus thoroughfares in a clean condition; During times of inclement weather during all works phases cleaning must be undertaken on a daily basis<br><u>Temporary accommodation and facilities including heating, lighting, furnishing and attendance</u>                                                                                                                                                                     | 1        | item |             |
| D                  | The Contractor is to provide a suitable area and furnishings within the site or site compound for site meetings for 15 people complete with table, chairs, cork boards for the erection of current relevant drawings for reference and a tea-station; the accommodation should include adequate heating, lighting, ventilation and furnishings; the accommodation should be kept clean for the works; tender is to include for all costs associated with compliance with these requirements here<br><u>Provision of connections to voice and data communications systems for use of the Employer</u> | 1        | item |             |
| E                  | The Contractor is to be include for the provision and maintenance of WIFI facilities suitable for business use for the use of the Employer and its agents when attending the site and compound area for meetings or other business; the contractor shall include for the supply, installation and connection of such a facility and pay all costs and charges associated with the provision of facility for the Employer's agents for the duration of the works<br><u>Periodic usage and access charges on voice and data communications systems for use of the Employer</u>                         | 1        | item |             |
| F                  | The Contractor shall make the beforementioned voice, data and wifi available for the use of the Employer and the design team at his own cost<br><u>Any other obligation or restriction</u>                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| G                  | The Contractor shall inform the Employer's Representative at least five working days before the proposed date for commencement of work on site<br><u>Building Control Regulations 2014</u>                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| H                  | The contractor shall make himself aware of and satisfy all the requirement under the new building control regulations as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| I                  | The inspection requirements set out in this document do not in any way relieve, replace, or reduce the builders duty to supervise the works.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| J                  | Coordination of tests, inspections & records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| K                  | the appointed Builder shall meet and coordinate and update the Inspection Notification Framework and preliminary Inspection Plan with the builders construction programme.                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| L                  | the Preliminary Inspection Plan is updated to show the agreed inspection milestones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |             |
| M                  | all elements identified in the Inspection Notification Framework to be made available for inspection at each milestone (a) complete, (b) not concealed (c) safely accessible.                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                           | (Continued) |      |      |           |
| A                  | the Builder shall facilitate random inspections by the Assigned Certifier or Ancillary Certifiers as if such inspections were identified in the Inspection Notification Framework.                                                                                                                                                                                        |             |      |      |           |
| B                  | the Builder to provide in a timely manner all certificates and tests for materials, products and assemblies                                                                                                                                                                                                                                                               |             |      |      |           |
| C                  | Advance notice and time for inspections:                                                                                                                                                                                                                                                                                                                                  | 1           | item |      |           |
| D                  | due consideration shall be given by the Builder for inspection notices . No claims for extension of time or financial claims shall be considered for delays arising out of inspection or re- inspection requirements.                                                                                                                                                     |             |      |      |           |
| E                  | the Builder shall ensure advance notifications are issued with respect to works to be inspected that are identified in the Inspection schedule. The minimum advance notice required for inspection of items of works is 5 working days                                                                                                                                    |             |      |      |           |
| F                  | Re- Inspections/Follow up inspections                                                                                                                                                                                                                                                                                                                                     | 1           | item |      |           |
| G                  | the minimum notice required for re- inspection of items of works not complete or requiring remedial works shall be 3 working days.                                                                                                                                                                                                                                        |             |      |      |           |
| H                  | the Assigned Certifier shall without delay notify the Builder through the CA/ER of any incomplete work at a given milestone identified in the Inspection Notification Framework. Note chain of communication may lead to delays.                                                                                                                                          |             |      |      |           |
| I                  | the Builder shall diligently ensure that any incomplete areas of given milestones are completed and that such works are kept available for inspection again, or until a record of completion is furnished, as may be required by the Assigned Certifier.                                                                                                                  |             |      |      |           |
| J                  | the Builder shall diligently ensure that any areas of non compliance are rectified and that such works are kept available for inspection again, or until a record of rectification is furnished, as may be required by the Assigned Certifier.                                                                                                                            |             |      |      |           |
| K                  | the Builder shall ensure all tests and certificates for materials, components and assemblies listed in the Inspection Notification Framework are undertaken in a timely way. Any test failure shall immediately be made known to the ER/AC, the materials/works in question shall be replaced/rectified and retested undertaken prior to proceeding with subsequent work. |             |      |      |           |
| L                  | It is the responsibility of the Builder to coordinate and supervise the works and no claim for delay or cost shall arise from the requirement to re- inspect.                                                                                                                                                                                                             |             |      |      |           |
| M                  | Non- Conformance                                                                                                                                                                                                                                                                                                                                                          | 1           | item |      |           |
| N                  | Materials & Workmanship- contract clauses                                                                                                                                                                                                                                                                                                                                 |             |      |      |           |
| O                  | Contract /Works Requirements- contract clauses                                                                                                                                                                                                                                                                                                                            |             |      |      |           |
| P                  | Missed Inspections- Ultimately they are recorded on the completed Preliminary Inspection Plan and registered with Building Control.                                                                                                                                                                                                                                       |             |      |      |           |
| Q                  | Builders Progress Records                                                                                                                                                                                                                                                                                                                                                 | 1           | item |      |           |
| R                  | the Builder shall maintain progress records and inspection records prepared by him prepared in accordance with the Method Statement submitted at tender as set out in this document                                                                                                                                                                                       |             |      |      |           |
| S                  | the Tenderers shall include in their tender costs for the provision of progress records as the works proceed                                                                                                                                                                                                                                                              |             |      |      |           |
| T                  | Method of Recording                                                                                                                                                                                                                                                                                                                                                       |             |      |      |           |
| U                  | Promptly provide a copy to the Assigned Certifier of all progress records and inspection records prepared by the Builder and the Ancillary Certifiers                                                                                                                                                                                                                     |             |      |      |           |
| V                  | At completion the Builder shall issue the AC with a copy of the records prepared by the Builder and the Ancillary Certifiers.                                                                                                                                                                                                                                             |             |      |      |           |
| W                  | the Builder shall also retain in his own central office all records prepared by the Builder and the Ancillary Certifiers for a minimum period of 6 years.                                                                                                                                                                                                                 |             |      |      |           |
| X                  | one hardcopy and/or softcopy of all records shall be issued 5 days in advance of the nominated completion date.                                                                                                                                                                                                                                                           |             |      |      |           |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Continued) |      |      |           |
| A                  | the record should include evidence of the successful execution of the Builders method statement on supervision including tests, check sheets, photographs and memos. All evidence shall be indexed by location and date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |      |      |           |
| B                  | acceptance of such records shall not constitute approval or imply that their content has been examined.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |      |           |
| C                  | The tendering contractors shall submit the following documentation as part of their tender. Failure to do so may invalidate the tender:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1           | item |      |           |
| D                  | builders Competence Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |      |      |           |
| E                  | Sub- Contractor/Specialist Competence (Ancillary Certifiers) Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |      |           |
| F                  | builders Method Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |      |           |
| G                  | Tenderers shall note that Substantial Completion for this contract is contingent upon the successful registration of the works on the Building Control Management System.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1           | item |      |           |
| H                  | Tenderers shall note that this project shall require a Prior Notification of Completion to be submitted to the Building Control Authority in advance of completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |           |
| I                  | The Builder shall provide 4/6 weeks in advance of the nominated completion date all completed and/or prospective documentation and confirmations for Registration. The Assigned Certifier and the Builder shall cosign the Completion Certificate as set out in Appendix F4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1           | item |      |           |
| J                  | The Assigned Certifier and Builder shall then lodge/upload the documentation onto the Building Control Authority system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1           | item |      |           |
| K                  | Notwithstanding any statutory duty to retain same, in advance of project completion, the Builder shall issue to the Assigned Certifier a copy of all inspection records retained by the Builder during the course of the project<br><u>Programme of Work</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |           |
| L                  | When requested by the Employer's Representative, the lowest evaluated Contractor shall submit, before the 'starting date', a detailed Programme of Work in box chart form for the completion of the works within the date for Substantial Completion. The Contractor is to provide two copies of the programme for the 'Employers Representative', and is to keep one further copy available for inspection in the site office. The Contractor is required to review and update the programme at monthly intervals and modify to take account of circumstances which have affected the programme. Two copies of the revised and updated programme to be issued to the 'Employers Representative'. The Contractor must also submit, at the same time, a detailed network analysis in support of his programme. The Programme should contain details of resources needed for each Phase of the Programme. The Programme of Work must be agreed with the Employer | 1           | item |      |           |
| M                  | The Contractor must keep the construction programme up to date and make copies available to all members of the design team immediately prior to the site meetings along with supporting network analysis. The programme must include, inter alia, actual activity durations against estimated durations together with particulars of labour, materials, plant resources and the like. Copies of the programme must be displayed in the various site offices.<br><u>Tax Clearance Certificate:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1           | item |      |           |
| N                  | It will be a condition for the award of Contract that the firm must be able to produce promptly a Tax Clearance certificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |      |      |           |
| O                  | All Sub- Contractors must produce a C2 Certificate to the Contractor, and be properly registered for V.A.T. before they commence on site<br><u>Dilapidations Survey</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |      |           |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | The Contractor should include here for a full photographic record of existing condition survey to be submitted as a record to the ER prior to commencement of works on site; this record should include evidence of the existing condition of all aspects of the site external pathways, roads and access points; should the need arise this photographic record will be used to assess the requirements for any reinstatement and repairs works on completion of the projects<br><u>Records</u> | 1 item   |      |             |
| B                  | The Contractor shall provide and retain site records in hardcopy and electronic format each week for the Employer's Representative and Quantity Surveyor and maintain these records for inspection by the ER should the need arise; these include but are not limited to                                                                                                                                                                                                                         | 1 item   |      |             |
| C                  | A daily record in the form of dockets with printed dates, weights ex pit etc of excavated materials taken from site and all stone materials delivered to site for inclusion in the works                                                                                                                                                                                                                                                                                                         |          |      |             |
| D                  | A daily record of the number and description of tradesmen and labour employed on the works                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |             |
| E                  | A daily record of all plant, i.e. number, type and capacity                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
| F                  | A daily record of all materials and goods including name of supplier, delivery docket number etc.                                                                                                                                                                                                                                                                                                                                                                                                |          |      |             |
| G                  | A daily record of weather on an hourly basis, during which time work was prevented by exceptionally bad weather as defined by weather events in the contract documents<br><u>Notice of Completion</u>                                                                                                                                                                                                                                                                                            |          |      |             |
| H                  | Give the Employer's Representative at least three weeks notice of the anticipated dates of Substantial Completion of the whole or parts of the works<br><u>Notice to the Quantity Surveyor</u>                                                                                                                                                                                                                                                                                                   |          |      |             |
| I                  | The Contractor is to produce photographic record of any work, prior to being covered up, which may lead to the instruction of a Change Order by the Employer's Representative; All photographs are to be date and time recorded.<br><u>Tests</u>                                                                                                                                                                                                                                                 | 1 item   |      |             |
| J                  | Materials Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| K                  | The Contractor shall make such standard tests of stone fill, concrete, blockwork, mortar, steelwork and other materials as set out in the Specification or as the Employer's Representative may direct and should include for all costs associated with the testing and certification of materials used for the works                                                                                                                                                                            | 1 item   |      |             |
| L                  | The cost of all on and off site tests, all testing fees and charges and any apparatus required, or the use of such shall be borne by the Contractor. The Contractor shall also bear the cost of forming concrete test cubes and transporting the cubes for testing.<br><u>Testing</u><br><u>Air Permeability</u>                                                                                                                                                                                 | 1 item   |      |             |
| M                  | The contractor is to include here for all costs associated with the management coordination and implementation of a quality control system in accordance with MosArt preliminaries to ensure the final Air Permeability pressure test to IS EN 13829:2000 achieves the required air leakage rate not exceeding 5m3/(h.m2) at an internal to external pressure difference of 50 pascals for the areas of the works                                                                                | 1 item   |      |             |
| N                  | The Contractor is to include for all costs associated with Prototype tests of 2 sample rooms within the main building on the external envelope, including typical construction junctions and for the provision of feedback in the form of a report from the airtightness specialist to the project team prior to the main air permeability test                                                                                                                                                  | 1 item   |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      | (Continued) |
| A                  | The Contractor is to include for all costs associated with the main building air permeability test in strict accordance with BS: EN 13829:2001 'Determination of air permeability of buildings , fan pressurisation method'; ATTMA TS1 'Measuring air permeability of building envelopes'; CIBSE TM:23 of 2002 Testing Building for Air Leakage; INAB ISO:17025 laboratory requirements<br><br><u>Building Energy Rating</u>                               | 1 item   |      |             |
| B                  | The Contractor is to provide and include for all costs here for a commercial building energy rating assessment by a person approved by the ER registered with the National Register of BER Assessors before Substantial Completion                                                                                                                                                                                                                         | 1 item   |      |             |
| C                  | The Contractor is to include for all costs associated with the appointment of a specialist Thermal imaging company approved by the ER and accredited by INAB to ISO 17025 with it's associated personnel proposed for the project to be ITC level 1, 2 and 3 certified Thermographers for Building defect analysis and electrical fault analysis                                                                                                           | 1 item   |      |             |
| D                  | The Contractor is to include for all costs associated with compliance with MosArt preliminaries relating to the site visits, surveys, testing, investigation & reporting requirements of the INAB accredited Thermal Imaging testing specialists<br><br><u>Air-tightness testing</u>                                                                                                                                                                       | 1 item   |      |             |
| E                  | The Contractor is to include for all costs associated with the appointment by the contractor of a building airtightness specialist approved by the design team who shall be accredited by INAB to ISO 17025 as a testing laboratory for commercial building airtightness testing                                                                                                                                                                           | 1 item   |      |             |
| F                  | The Contractor is to include for all costs associated with the building airtightness specialist approved by the design team complying with the initial site survey, recommendations and report requirements, the minimum 10 site visit inspections & associated reporting requirements and for attendance and input at the proposed design workshops; all costs associated with these requirements are to be included here<br><br><u>Clearance of Site</u> | 1 item   |      |             |
| G                  | On completion of the Works and as and when directed by the Employer's Representative, the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and Works perfectly clean and in a workmanlike condition to the satisfaction of the Employer's Representative.<br><br><u>Work by Utility Providers</u>                               | 1 item   |      |             |
| H                  | The Contractor will be held responsible for any damage caused through his want of proper care to any of the fittings, equipment or machinery installed by Utility providers or other statutory undertakers and their agents.                                                                                                                                                                                                                               | 1 item   |      |             |
| I                  | The Contractor shall if required allow access to the site and building for the staff of utility providers or others employed by or acting on behalf of the Employer. He shall also allow access to the employer's staff connected with this work.                                                                                                                                                                                                          | 1 item   |      |             |
| J                  | Should a recognised and responsible Officer of a Local Authority desire to see the premises, building or documents, the Contractor shall refer this person to the Employer or the Employer's Representative<br><br>GENERAL FACILITIES AND OBLIGATIONS<br><u>Supervision and co-ordination of the works</u>                                                                                                                                                 | 1 item   |      |             |
| K                  | Provide for all necessary supervision and co-ordination of the works by those put forward for the relevant roles in the Contractor SAQ tender document in accordance with the conditions of the contract including the execution of the Project Supervisor Construction Stage role as defined by the Health & Safety and Welfare at Work (Construction) Regulations 2013                                                                                   | 1 item   |      |             |
| L                  | The Contractor shall ensure that there are at all times on the site sufficient suitably qualified and experienced staff to supervise and co-ordinate all work carried out by the Contractor and to advise and assist the employer in taking possession of the works.                                                                                                                                                                                       | 1 item   |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      | (Continued) |
| A                  | <u>Contracts Manager</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |             |
|                    | The Contractor shall immediately on appointment assign a Contracts Manager who shall have a full authority to act on the Contractor's behalf in connection with the Contract. The Contractor shall notify the Employer's Representative of the name of the person so appointed and of his normal place of work. The Contractor may from time to time by further written notice to the Employer's Representative remove any person from his appointment as the Contracts Manager and appoint another person in his place with effect from a date to be specified in the notice. The Contractor shall at all times until the end of the Defects Liability Period ensure that a person is appointed to act as the Contracts Manager.                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| B                  | <u>Site Foreman</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
|                    | From the commencement of work at the site until the works have been certified as Substantially Complete, the Contractor shall ensure that some suitable person is employed by him at the Site as Site Manager. The Site Manager shall supervise and co-ordinate all work carried out on the site by the Contractor and receive all instructions given by or on behalf of the Employer's Representative to the Contractor at the site. The Site Manager shall be present at the site throughout normal working hours except when on leave, sick, or absent for reasons connected with the proper performance of this Contract. Whenever the Site Manager is absent from the site during normal working hours, a suitable person shall be appointed to act as his deputy. The Site Manager shall not be employed by the Contractor to do work other than work specifically related to the Contract. The Contractor shall notify the Employer's Representative of the person appointed as Site Manager and shall not change such appointment without the prior written consent of the Employer's Representative. | 1        | item |             |
| C                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
|                    | The Contractor shall ensure that there are at all times on the site sufficient suitably qualified and experienced staff to supervise and co-ordinate all work carried out by the Contractor and to advise and assist the employer in taking possession of the works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |             |
| D                  | <u>Site Services Coordinator/Services Foreman</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |             |
|                    | From the commencement of work at the site until the works have been certified as Substantially Complete, the Contractor shall ensure the SAQ submitted site services coordinator/services foreman is appointed as full time personnel on the project. The Site Services Coordinator shall supervise and co-ordinate all work carried out on the site by the site electrical contractor and receive all instructions given by or on behalf of the Employer's Representative to the electrical contractor on site. The services coordinator shall be present at the site throughout normal working hours except when on leave, sick, or absent for reasons connected with the proper performance of this Contract. Whenever the services coordinator is absent from the site during normal working hours, a suitable person shall be appointed to act as his deputy. The Contractor shall notify the Employer's Representative of the person appointed as Site Services Coordinator and shall not change such appointment without the prior written consent of the Employer's Representative.                   | 1        | item |             |
| E                  | <u>Safety File</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
|                    | The Contractor is allow here for all costs associated with the Safety File requirements including the format required, the number of hard and soft copies etc as per the requirements as identified in the PSDP preliminary safety and health plan and as per MosArt preliminaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |             |
| F                  | <u>Scaffolding</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |             |
|                    | The Contractor is to price here for all fixed and temporary mobile scaffolding systems associated with the works including bringing to site, erection, certification & sign off by the Structural Engineer, adaption and maintenance as required for the duration of the works and removal on completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| G                  | <u>Plant tools and vehicles</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |             |
|                    | Provide for bringing to site, maintaining on site for the duration of the works and removing on completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quantity | Rate | Total (€)   |
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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      | (Continued) |
| A                  | In the event that a change order is instructed requiring the use of plant and equipment already available on site and in the possession of the contractor and in use for the works requirements no additional costs can be claimed for the cost/rental/lease of the beforementioned plant and equipment; only plant and equipment specifically hired for such a piece of instructed works can be charged for and must be supported by invoices for the hire or charges in relation to the use of such equipment; on a project of this size the contractor will be expected to have sufficient plant and equipment available to him to complete all but very specific technical works outside the normal remit of the contractor's day to day business | 1        | item |             |
| B                  | The Contractor is responsible and should include here for the erection, operation and removal on completion of all cranes and other lifting equipment, temporary or otherwise deemed necessary by the Contractor for completion of the contract; should they be required the Contractor shall plan and execute any craneage works in accordance with statutory requirements and codes of practice<br><br><u>In addition to the general requirement to maintain good records the Contractor is to photograph installations and obtain and maintain records of witnessed tests signed by the Contracts Manager and Architect/Services Engineer for the following elements of works</u>                                                                  | 1        | item |             |
| C                  | All fire- stopping works prior to the works being closed up including the installation of fire smoke dampers in accordance with the requirements of the Employer and of the fire safety consultant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| D                  | Medical gases installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |             |
| E                  | UPS installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |             |
| F                  | Fire alarm installations; all such witnessed records should be in place prior to any systems being demonstrated to the Employer<br><br><u>Security</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |             |
| G                  | Provide adequate protection to the site, the works, materials etc. and erect efficient and sufficient guards to prevent unauthorised persons trespassing on the site and for the proper protection of the public and all invitees and licensees of the Employer. Provide all requisite watching and lighting. Safeguard the Works, materials and plant against damage and theft. The Contractor shall be solely responsible for any damage occasioned by want of sufficient watching, lighting and/or protection.                                                                                                                                                                                                                                     | 1        | item |             |
| H                  | The Contractor is responsible for leaving the works site secure and where appropriate leaving all access and egress routes closed and locked at the end of each day<br><br><u>Protection of the works from inclement weather</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| I                  | Protect the works from inclement weather as directed or as necessary including all required temporary screens to the openings within the facade or roof as the works proceed<br><br><u>Water for the works</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |             |
| J                  | At present there is no water available on site; the contractor is to include for all costs here associated with permissions, licences etc for a temporary connection to the existing mains for use during the works until the permanent mains connection can be made<br><br><u>Temporary lighting and power for the works</u>                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |             |
| K                  | The contractor shall be solely responsible for the connection, set-up, testing, certification and removal on completion of all equipment & cabling for the necessary temporary power supply to successfully execute the works; The contractor should include within his tender price for all costs associated with setting up, commissioning and certification the temporary power system and the protection of all temporary power cables and the disconnection and removal on completion of the works                                                                                                                                                                                                                                               | 1        | item |             |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€)   |
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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      | (Continued) |
| A                  | Provide for the installation, maintenance, temporary distribution, payment of charges for current and adaptation of all necessary artificial lighting and power required for each phase of the Works and remove on completion.                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| B                  | At present there is no power available on site; the contractor is to include for all costs here associated with permissions, licences etc for a temporary connection to the existing mains for use during the works until the permanent mains connection can be made; whilst the contractor is awaiting a connection to the a temporary or permanent power supply he shall be deemed to have included for all required temporary generators and fuel and is deemed to have included within his tender for all costs associated with these temporary power supplies for the works | 1        | item |             |
| C                  | The Contractor is required to ensure that any connections made to the mains must be completed, checked and certified by the RECI qualified electrical sub- contractor; the employer will not accept any responsibility contractually or otherwise for the consequences of the failure or restriction of the building mains supply and the Contractor should have a contingency supply ready should any failure or restriction occur<br><u>Temporary roads, hardstandings, crossings and similar items</u>                                                                        | 1        | item |             |
| D                  | Provide for constructing temporary roads, ramps, hardstandings, crossings and similar items as may be necessary<br><u>Temporary accommodation for the use of the Contractor</u>                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| E                  | The contractor shall provide suitable temporary sanitary facilities either within the proposed site or within the site compound and shall temporarily connect these facilities to the existing foul water installation; any such measures and connections must be approved prior to installation by the Employer; the contractor should include for all costs associated with provision, maintenance, management and removal of these sanitary conveniences on completion of the works                                                                                           | 1        | item |             |
| F                  | The contractor shall provide a suitable area within the site compound for the use of site main contractor and sub- contractor personnel as a canteen/lunch break area<br><u>Temporary storage areas including suitable and separate storage for dangerous material and substances</u>                                                                                                                                                                                                                                                                                            | 1        | item |             |
| G                  | Provide suitable storage areas weathered and secured where necessary for storage of materials liable to injury from exposure or for any dangerous materials such as chemicals or flammable materials                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| H                  | The Contractor shall provide adequate lock up storage for all materials required by the sub- contractors; the contractor shall be responsible for taking delivery and for safe keeping of such goods until handed over to the Sub- Contractor; any additional special attendances required will be the responsibility of the main Contractor<br><u>Traffic regulations</u>                                                                                                                                                                                                       | 1        | item |             |
| I                  | The Contractor shall make necessary arrangements with the Garda, Local Authority and Landlord through the Employer and shall comply with their requirements regarding traffic flow, traffic management, parking and any requirements regarding road closures; the contractor is to obtain and comply with the conditions of necessary Road Closure Order(s) required and pay all costs and expenses in connection therewith<br><u>Safety Health &amp; Welfare at Work Provisions</u>                                                                                             | 1        | item |             |
| J                  | The Contractor shall include for complying with the Safety, Health and Welfare at Work Acts and Regulations current at the date of tender. (See also previous clauses in relation to Project Supervisor Construction Stage)<br><u>General fire safety obligations</u>                                                                                                                                                                                                                                                                                                            | 1        | item |             |

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| Description                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity |      | Rate | Total (Γ)   |
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| (06) PRELIMINARIES                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |      | (Continued) |
| A                                                               | The Contractor is to include within his pricing generally and here specifically for all requirements including appointing specialist independent testers, provision of sample fire stopping installations for approval,. procedures, inspection, records (including labelled photographs) ,testing, commissioning and independent certification of fire stopping materials, fire dampers, fire collars and their methods of installation in accordance with MosArt Preliminaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |      |             |
| B                                                               | The Contractor is required to comply with the CIF & Fire Protection Association, Joint Code of Practice, 'Fire Prevention on Construction Sites' and the requirements set out in the PSDP preliminary safety and health plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |      |             |
| C                                                               | In addition to statutory requirements, the Contractor shall take special precautions to avoid risk of fire and cease any work involving naked flames or sparks at least 45 minutes before work stops for the day; the contractor shall not permit any accumulation of inflammable liquids and gases onto the works other than that needed for one day's work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |      |             |
| D                                                               | The Contractor is required to obtain hot works permits before carrying out any hot works and to ensure that the works are carried out strictly in accordance with the provisions of the permit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |      |             |
| E                                                               | The Contractor is required to install and maintain at his own cost an appropriate number of fire extinguishers and fire points in each of the proposed works areas; these should be maintained to the satisfaction of the ER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |      |             |
| F                                                               | The contractor shall establish and maintain all elements of the fire stopping works, including the work of subcontractors comply with the specified requirements; the Contractor will be obliged to inspect and record results of every item of fire stopping and all fire dampers; the Employer will engage directly a Fire Safety Engineer to assist with the inspection of the fire stopping; the Contractor is required to assist with this process and shall be required to open up elements of fire stopping randomly selected by the Employer's Fire Safety Engineer; the Contractor is required to maintain full records including location of the works, nature and date of inspections, photographic records, tests undertaken, approvals received, extent of non- compliant work discovered, details of corrective action, name and signatures of persons present during the inspection etc; the Contractor is required to keep these records on site for inspection and provide a detailed record of each installation and inspection as part of the Safety File; tenderers are to include all costs associated with compliance with this instruction here | 1        | item |      |             |
| G                                                               | The Contractor is required to carry out the following Employer specific procedures on all fire damper installations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |      |             |
| H                                                               | Verify that the damper is installed in strict accordance with the manufacturer's instructions in order to comply fully with the manufacturer's certification designs and approvals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |      |             |
| I                                                               | Verify that the appropriate electrical connections are made to the damper and that it functions correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |      |             |
| J                                                               | Certify that the BMS connections are made to the damper and are giving the correct and accurate signal to the BMS system and that they function correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |      |             |
| K                                                               | Verify that the fire alarm interface is made and functioning properly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |      |             |
| L                                                               | Verify that the fire damper interfaces with the fire alarm strategy and that it functions correctly through a testing, certification and commissioning process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |      |             |
| M                                                               | Maintain records of how each fire damper is installed on drawings and reports, including location, any inspections undertaken, photographic records of each damper both prior to and after fire sealing has been applied and details of how the damper was installed including dimensioned anchors details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |      |             |
| N                                                               | When all of the before mentioned actions have been successfully completed and all fire dampers are operating correctly the Contractor will be required to physically operate and demonstrate each damper to the Employer and the Fire Safety consultant by operation of the fire alarm system and not by simulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |      |             |
| <u>Disbursements arising from the employment of work people</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |      |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      | (Continued) |
| A                  | Provide for all payments required under legislation, working rule agreements and the like affecting labour in force at the Designated Date<br><br><u>Removing rubbish, protective casings and coverings and cleaning the works on completion</u>                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| B                  | Contractor to ensure that all loads transported to and from the site but particularly of waste materials are covered and secured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | item |             |
| C                  | The Contractor will be required to comply with all statutory waste management and control requirements with regards to the collection and disposal of all waste materials including the maintenance of all permits and receipts for inspection<br><br><u>Deep Clean</u>                                                                                                                                                                                                                                                                                                                                                                                           | 1        | item |             |
| D                  | The Contractor is required to provide a 'deep clean' of the entire works area on completion of the works and prior to handover of the area to the Employer; the contractor should include for all costs associated with deep cleaning the works here<br><br><u>Drying the Works</u>                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |             |
| E                  | Provide for all temporary equipment, fuel and attendance for drying out and controlling the humidity of the works; the permanent heating installation may not be used for this purpose; replace all work damaged by lack of adequate drying and/or humidity control<br><br><u>Samples / Approvals</u>                                                                                                                                                                                                                                                                                                                                                             | 1        | item |             |
| F                  | The Contractor shall, at his own expense provide and deliver samples of materials at the Architect's offices for approval or at the offices of an approved testing authority as may be directed                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |             |
| G                  | The Contractor shall, at his own expense provide sample panels of floor finishes, skirting, ceiling tiles, joinery, painting (4 no x 1m2 of each paint type), ironmongery and the work of other trades as may be directed by the Architect. (See also specific requirements contained in the Specification); provide at least three 2m x 1m panels of each as may be required, unless otherwise specified; maintain approved samples as controls during the course of the works                                                                                                                                                                                   | 1        | item |             |
| H                  | Where approval of products or materials is specified, the Contractor shall submit samples or other evidence of suitability and should not confirm orders or use materials until approval has been obtained; approved samples shall be retained on site as directed by the Architect for comparison with products and materials used in the Works and the Contractor shall remove them when no longer required by the Architect<br><br><u>General Items for Convenience in Pricing</u>                                                                                                                                                                             | 1        | item |             |
| I                  | Pricing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
| J                  | The tenderer's costs and charges are to be spread over the items in the Bill of Quantities in a balanced manner so that the rate or price for each item fairly represents his costs and charges for the work etc., described therein. all items which have a bearing on cost included within the preliminaries section of this BQ must be priced; if the tenderer submits an overall price for the preliminaries and noted cost items as 'included' or a derivative thereof he will be required to provide the price breakdown of his preliminaries prior to appointment should he be successful; this will be a condition precedent of the award of the contract | 1        | item |             |
| K                  | The Contractor shall include in his Tender for Value Added Tax; the Contractor shall price and will be deemed to have priced all items in the Bill of Quantities exclusive of Value Added Tax. P.C. Sums and Provisional Sums stated herein are exclusive of Value Added Tax                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |             |
| L                  | The method of calculating the appropriate Value Added Tax is set out in the Form of Tender and Value Added Tax should be so calculated and included in the Tender amount; the amount included for VAT will be deemed to be provisional and as such will be the subject of re- calculation in accordance with Government procedures                                                                                                                                                                                                                                                                                                                                | 1        | item |             |

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| (06) PRELIMINARIES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |      | (Continued) |
| A                  | The Contractor is to allow for all costs and expenses arising out of the operation of the Industrial Relations Act 1946 to 2004 Employment Equality Act 1998 , the National Minimum Wage Act 2000 and any other provision by State, Tort or Common law or amendment or replacement of existing legislation concerning the employment of labour including any extra payments made for bonus schemes etc                                                                                                 | 1        | item |      |             |
| B                  | PPE requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |             |
| C                  | The Contractor should provide and maintain on site 4 spare sets of PPE for the sole use of the Employer to include ear muffs, hand protection, high visibility waist coats, safety helmets and eye glasses all in accordance with the relevant IS EN guidelines                                                                                                                                                                                                                                        | 1        | item |      |             |
| D                  | All contractors and sub- contractors are to wear the relevant PPE (Personal Protective Equipment), including Hard Hats, High Visibility Jackets, Protective Footwear and Protective Eye Wear (when necessary) at all times during the works; the contractor should include for all costs for the provision of such PPE and the management and enforcement of this condition here                                                                                                                       | 1        | item |      |             |
| E                  | Proof of vesting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |      |             |
| F                  | The Architect may from time to time ask the Contractor or (through the Contractor) Nominated Sub- Contractors for proof of ownership (free from lien or charge) of any goods or materials delivered to the site to be embodied in the works; if such proof is not forthcoming the Architect will be entitled to withhold certifying payment in respect of the goods or materials in question                                                                                                           | 1        | item |      |             |
| G                  | Unsuitability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |      |             |
| H                  | If, in the opinion of the Contractor, anything described in the Specification or shown on the Drawings is unsuitable or inconsistent with his guarantees or responsibilities under the Contract, the Contractor shall draw such matters to the attention of the Architect before the submission of tenders or in the case of documents or instructions issued after the time of tendering as soon as practicable and in any case before commencement of any part of the works which might be affected. | 1        | item |      |             |
| I                  | Alterations to documents                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      |             |
| J                  | Any alteration, insertion, or deletion made by the Tenderer to the tender documents, may, at the sole discretion of the Architect, be disregarded and shall not form part of the Contract<br><u>Covid 19 Measures</u>                                                                                                                                                                                                                                                                                  | 1        | item |      |             |
| K                  | The contractor is to include for all costs associated with compliance with government guidelines and CIF protocols and methodologies for working on medium sized construction sites including but not limited to the following                                                                                                                                                                                                                                                                         |          |      |      |             |
| L                  | Temporary wash stations for site personnel and visitors                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |             |
| M                  | Additional PPE equipment such as face masks, visors and the provision of gloves                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |      |             |
| N                  | Additional Covid 19 signage requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |      |             |
| O                  | Additional costs associated with administration of contract due to covid 19 methodologies and restrictions on working conditions including additional inductions, tool box talks and other head office administration costs associated with compliance                                                                                                                                                                                                                                                 | 1        | item |      |             |
| P                  | Phased lunch breaks and the provision of additional accommodation for site personnel sanitary conveniences, drying rooms, canteens etc                                                                                                                                                                                                                                                                                                                                                                 | 1        | item |      |             |
| Q                  | Additional dedicated site personnel for covid 19 compliance                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |      |             |
| R                  | Provide for compliance with and working methodologies and restrictions in relation to proposed new HSA and CIF guidelines and instructions in relation to the monitoring and prevention of the spread of Covid- 19                                                                                                                                                                                                                                                                                     | 1        | item |      |             |
| S                  | Any other items the contractor deems a requirement for the project including whilst working indoors when the building is weatherproofed                                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |             |

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|             | (06) PRELIMINARIES<br>Carried to Summary: |          |  |      |           |

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| Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
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| (11) DEMOLITIONS AND ALTERATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                  | (11) DEMOLITIONS AND ALTERATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                                  | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                                | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                                | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                                | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                                | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                  | DEMOLITIONS AND ALTERATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                                  | <u>DEMOLITIONS AND ALTERATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                  | <u>Remove existing stone cladding including railing; carefully dispose off site as directed by the Client/ER; include for making good retain structure; all in accordance with Architects drawings and specifications</u>                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                                  | <u>Walls</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| F                                | > 300mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 257      | m2   |           |
|                                  | <u>Remove existing timber cladding including moisture barriers, battens, plywood sheathing, insulation and the like; carefully dispose off site as directed by the Client/ER; include for making good retained structure; all in accordance with Architects drawings and specifications</u>                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                                  | <u>Walls</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| G                                | > 300mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 456      | m2   |           |
|                                  | <u>Remove existing metal cladding including moisture barriers, battens, plywood sheathing, insulation and the like; carefully dispose off site as directed by the Client/ER; include for making good retained structure; all in accordance with Architects drawings and specifications</u>                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
|                                  | <u>Walls</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| H                                | > 300mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 63       | m2   |           |
|                                  | <u>Strip out existing aluminium windows; include for stripping back reveals; include for disposal off site as directed by the Client/ER; include for stripping back internal reveals; making good (e.m); all in accordance with Architect specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                                  | <u>Windows</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| I                                | windows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20       | nr   |           |

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| Description                      |                                                                                                                                                                                                                                                                                                     | Quantity | Rate | Total (Γ)   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (11) DEMOLITIONS AND ALTERATIONS |                                                                                                                                                                                                                                                                                                     |          |      | (Continued) |
|                                  | <u>Strip out existing aluminium doors; include for disposal off site as directed by the Client/ ER; include for disconnecting any mechanical opening systems, panic bars or access control systems and the like; all in accordance with the Architects drawings and specifications</u>              |          |      |             |
|                                  | <u>Doors</u>                                                                                                                                                                                                                                                                                        |          |      |             |
| A                                | single doors                                                                                                                                                                                                                                                                                        | 1        | nr   |             |
| B                                | double doors                                                                                                                                                                                                                                                                                        | 3        | nr   |             |
|                                  | <u>Strip out existing aluminium curtain walls; include for disposal off site as directed by the Client/ ER; include for disconnecting any mechanical opening systems, panic bars or access control systems and the like; all in accordance with the Architects drawings and specification</u>       |          |      |             |
|                                  | <u>Curtain walls</u>                                                                                                                                                                                                                                                                                |          |      |             |
| C                                | curtain walls                                                                                                                                                                                                                                                                                       | 29       | m    |             |
|                                  | <u>Strip out existing glass blocks; include for disposal off site as directed by the Client/ER ; include for strpping back reveals to be made good; all in accordance with Architects specification and drawings</u>                                                                                |          |      |             |
|                                  | <u>Glass blocks</u>                                                                                                                                                                                                                                                                                 |          |      |             |
| D                                | glass blocks                                                                                                                                                                                                                                                                                        | 5        | m2   |             |
|                                  | <u>Strip out existing polycarbonate rooflights; include for removal of existing upstands, kerbs and the like; include for making good opes to receive infill panels (e.m); include for disposal offsite; all in accordance with Architects drawings and specifications</u>                          |          |      |             |
|                                  | <u>Rooflights</u>                                                                                                                                                                                                                                                                                   |          |      |             |
| E                                | various sizes                                                                                                                                                                                                                                                                                       | 57       | m2   |             |
|                                  | <u>Strip out existing timber slat ceiling; include for making good retained structure; include for disposal off site; all in accordance with Architects specification and drawings</u>                                                                                                              |          |      |             |
|                                  | <u>Ceilings</u>                                                                                                                                                                                                                                                                                     |          |      |             |
| F                                | > 300mm; over pool area                                                                                                                                                                                                                                                                             | 458      | m2   |             |
|                                  | <u>Strip out existing warm deck flat roof with existing ballast on fleece; existing insulation to be retained; include for disposal offsite as directed by the Client/ER; include for making good existing roof deck; all in accordance with Architects specification and drawing 1004- D2- P02</u> |          |      |             |
|                                  | <u>Roofing</u>                                                                                                                                                                                                                                                                                      |          |      |             |
| G                                | > 300mm wide                                                                                                                                                                                                                                                                                        | 795      | m2   |             |
|                                  | <u>Strip out existing metal clad roof finish; include for removal of fascias; include for disposal offsite as directed by Client/ER; include for making good retained steel structure; all in accordance with Architects drawings and specification</u>                                             |          |      |             |
|                                  | <u>Roofing</u>                                                                                                                                                                                                                                                                                      |          |      |             |
| H                                | > 300mm wide; curved                                                                                                                                                                                                                                                                                | 853      | m2   |             |
|                                  | <u>Carefully remove existing canopy structure to facilitate installation of EWI (e.m); set aside for reinstallation upon completion of the works; all in accordance with Architects specification and drawings</u>                                                                                  |          |      |             |
|                                  | <u>Roofing</u>                                                                                                                                                                                                                                                                                      |          |      |             |
| I                                | > 300mm wide                                                                                                                                                                                                                                                                                        | 12       | m2   |             |
|                                  | <u>Strip out existing aluminium parapet capping; include for disposal off site; all in accordance with Architects specification and drawing</u>                                                                                                                                                     |          |      |             |
|                                  | <u>Parapet capping</u>                                                                                                                                                                                                                                                                              |          |      |             |

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| Description                      |                                                                                                                                                                                                                                                          | Quantity | Rate | Total (€)   |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (11) DEMOLITIONS AND ALTERATIONS |                                                                                                                                                                                                                                                          |          |      | (Continued) |
| A                                | parapet capping<br><u>Strip out existing concrete parapet capping; include for disposal offsite; all in accordance with Architects specification and drawings</u>                                                                                        | 171 m    |      |             |
| B                                | Concrete capping                                                                                                                                                                                                                                         | 36 m     |      |             |
| C                                | concrete capping<br><u>Remove existing handrails and dispose off site; all in accordance with Architects specification and drawing</u><br><u>Handrails</u>                                                                                               |          |      |             |
| D                                | approx 1100mm high<br><u>Remove existing rainwater goods to facilitate the installation of EW; include for disposal offsite; all in accordance with Architects specification and drawings</u><br><u>Gutters and downpipes</u>                            | 66 m     |      |             |
| E                                | gutters and down pipes<br><u>Removing existing caging for water supply pipes; include for disposal offsite; include for making good; all in accordance with Architects specification and drawings</u><br><u>Metal caging</u>                             | 1 item   |      |             |
| F                                | cages<br><u>Isolate, disconnect and protect all M&amp;E fittings fixed to the ceilings and/or walls; include for reinstallation upon completion of the works; all in accordance with specifications and drawings</u><br><u>Existing M&amp;E fittings</u> | 3 nr     |      |             |
| G                                | fittings generally<br>(11) DEMOLITIONS AND ALTERATIONS                                                                                                                                                                                                   | 10 nr    |      |             |
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Currie & Brown

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| Description       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (19) SUBSTRUCTURE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                   | (19) SUBSTRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                   | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                 | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                 | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                 | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                 | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                 | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                   | EXCAVATION & EARTHWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                   | <u>EXCAVATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                   | <u>Generally around external walls to facilitate the installation of external wall insulation (e.m); set aside excavated material for filling upon completion of installation of external wall insulation (e.m); all in accordance with Architects specification, drawings and detail 5 on drawing 4002- D2- P01.</u>                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                   | <u>Reduce levels</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| F                 | <= 2.00m deep; approx 500mm wide x 600mm deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 44       | m3   |           |
|                   | <u>FILLING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                   | <u>Backfilling with excavated material (previously set aside); include for making good finished made ground; all in accordance with Architects drawings and detail 5 on drawing 4002- D2- P01.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                   | <u>To excavations</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| G                 | > 250mm deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 44       | m3   |           |
|                   | <u>IRONMONGERY, ACCESSORIES &amp; SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                   | <u>Insulation; XPS insulation fixed to existing rising walls; to achieve thermal conductivity of 0.034W/mKall in accordance with Architects drawings and specification and detail 5 on drawing 4002- D2- P01.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                   | <u>Insulation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| H                 | 140mm thick; vertical; below ground level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 89       | m2   |           |
|                   | (19) SUBSTRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |

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| Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (21) EXTERNAL WALLS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                     | (21) EXTERNAL WALLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
|                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                   | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                   | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                   | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                     | SURVEYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                     | <u>THERMOGRAPHIC SURVEY</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| F                   | Provide for conducting a thermographic survey to the building; survey to be carried out prior to the commencement of the works; in accordance with Architects specification and works requirements                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| G                   | Provide for conducting a thermographic survey to the building; survey to be carried out upon completion of the works; in accordance with Architects specification and works requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |           |
|                     | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                     | <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                     | <u>Insulation; EPS beads insulation pumped into existing wall cavities ; installed by injection with compatible binding agent to form bonded insulation system within the cavity to achieve a thermal conductivity of 0.033W/ m2K;include for making good adjacent finishes; all in accordance with manufacturers instructions; Architects drawings and specifications</u>                                                                                                                                                                                                                                                                       |          |      |           |
|                     | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| H                   | > 300mm; within 50mm wide cavity to blockwalls; wall type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 353      | m2   |           |
| I                   | > 300mm; within 50mm wide cavity to blockwalls; wall type C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 54       | m2   |           |
| J                   | > 300mm; within 50mm wide cavity to blockwalls; wall type D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55       | m2   |           |
| K                   | > 300mm; within 50mm wide cavity to blockwalls; wall type E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 295      | m2   |           |
| L                   | > 300mm; within 50mm wide cavity to blockwalls; wall type G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 43       | m2   |           |
|                     | (21) EXTERNAL WALLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |

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| Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (27) ROOF   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|             | (27) ROOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|             | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A           | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B           | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C           | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D           | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E           | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|             | CONCRETE WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|             | <u>COMPOSITE CONSTRUCTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|             | <u>150mm thick composite construction slab with metal trapezoidal profile decking; including 1 layer of 393 mesh; laid over supporting steel structure ; assembled and installed in accordance with manufacturers instructions as per Engineers and Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|             | <u>Roof slabs</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| F           | composite floor slab; < 5.0m span                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 57       | m2   |           |
|             | <u>REINFORCEMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
|             | <u>All reinforcement bars shall be Ductility Class B in accordance with BS 4449 and I.S. EN 10080 with yield strength of 500 N/mm and shall be denoted H; cutting &amp; bending to schedules in accordance with BS 8666; min lap lengths of 40 x diameter of bar or 400mm whichever is greater; 50mm nominal cover; tying with black annealed mild steel 16 gauge tying wire; supply, detail and fix all formed concrete spacers blocks &amp; chairs to BS 7973; all in accordance with Engineer's specification</u>                                                                                                                             |          |      |           |
|             | <u>Bar; straight or bent including all connection pieces, U- bars, links etc.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| G           | nominal bar size 12 - 25mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.712    | t    |           |
| H           | 600mm long; H16 bars chemically anchored into existing slab @ 200cc ; 300mm embedment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 74       | nr   |           |
|             | <u>Fabric Mesh reinforcement; standard in accordance with BS 4483 Grade B500B; supply and installation of mesh reinforcement and all required proprietary tie wire, spacer blocks and chairs etc; include for minimum 400mm side and end laps to all edges and minimum 50mm cover; all in accordance with Engineer's specification</u>                                                                                                                                                                                                                                                                                                           |          |      |           |
|             | <u>Fabric; horizontal</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
| I           | A393 Mesh; horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57       | m2   |           |

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| Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Rate | Total (€)   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (27) ROOF   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      | (Continued) |
|             | METALWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |             |
|             | <u>STRUCTURAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |             |
| A           | Note: steel to steel bolt fixings, washers, nuts etc are deemed to be included and are therefore not measured in the BQ all as per ARM 4 page 86- 89 'deemed to be included'<br><br><u>The following to rooflight opes:</u><br><br><u>Galvanised structural steelwork Grade S355 TO BS EN10025; fabricated, welded and erected in accordance with IS EN 1090 - Part 2; factory applied hot dipped galvanised coating in accordance with BS EN ISO 1461; all in accordance with Engineer's specification</u><br><br><u>Fabricated members: Beams</u> |          |      |             |
| B           | <= 25kg/m; EA100 x 100 x 10mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.066    | t    |             |
| C           | 25 - 50kg/m; PFC180 x 90 x 26<br><br><u>Fabricated members: beams; fittings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.210    | t    |             |
| D           | 10mm thick end plate with 4nr opes for M12 bolts ; onto face of opening<br><br><u>Bolts</u><br><br><u>Bolts; resin anchors, nuts and washers</u>                                                                                                                                                                                                                                                                                                                                                                                                    | 74       | nr   |             |
| E           | M12 bolts<br><br><u>Drilling /forming holes in other construction for fittings; in accordance with Engineers specification and drawings</u><br><br><u>Sundries</u>                                                                                                                                                                                                                                                                                                                                                                                  | 296      | nr   |             |
| F           | opes in existing roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 296      | nr   |             |
| (27) ROOF   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |             |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                | (31) EXTERNAL WALL COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                              | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                              | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                              | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                              | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                              | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                | ROOFING CLADDING & WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                                | <u>WATERPROOFING NON METAL SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                | <u>EPDM membrane ; minimum 1mm thick; fully bonded to perimeter of all openings within the facade on the internal face of external walls using bituminous bonding agent; installed lapped bonded and sealed in strict accordance with manufacturers instructions and Architects specifications</u>                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                | <u>Flashings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| F                              | EPDM to external wall openings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 231      | m    |           |
|                                | <u>Airtightness seal; supply, installation and sealing of airtight tape &amp; fleece to perimeter of openings to windows and doors; include for all necessary preparatory works, priming and glue sealing where required; airtightness to achieve performance required performance; all in accordance with manufacturers instructions and Architects drawings and specification</u>                                                                                                                                                                                                                                                              |          |      |           |
|                                | <u>Airtightness tape</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| G                              | Airtight tape to external wall openings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 231      | m    |           |
|                                | <u>DPC; supply and install DPC to heads and cills of windows and curtain walls where DPC is damaged or missing; including lapping; include for all preparatory works; all in accordance with manufacturers instructions and Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                                | <u>Dampproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
| H                              | horizontal; approx 330mm girth; to window cills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23       | m2   |           |
| I                              | stepped; approx 400mm girth; to window and door heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30       | m2   |           |
|                                | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                                | <u>BOARDING AND SECOND FIXINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |

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| Description                    |                                                                                                                                                                                                                                                                                                                                       | Quantity    |    | Rate | Total (€) |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|------|-----------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                       | (Continued) |    |      |           |
| A                              | <u>Window boards; 19mm thick softwood; rounded edge; fixed including all required timber supports, grounds and noggings; mastic sealed to all perimeter junctions; thoroughly sanded and sealed and left ready to receive paint finish (e.m); all in accordance with Architects specification and Architects drawings</u>             |             |    |      |           |
|                                | <u>Second fixings: Window boards</u>                                                                                                                                                                                                                                                                                                  |             |    |      |           |
|                                | 170mm wide                                                                                                                                                                                                                                                                                                                            | 53          | m  |      |           |
|                                | WOODWORK                                                                                                                                                                                                                                                                                                                              |             |    |      |           |
|                                | <u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>                                                                                                                                                                                                                                                                                          |             |    |      |           |
|                                | <u>Supply and install ironmongery to doors; all in accordance with Architects specification and door and window schedules</u>                                                                                                                                                                                                         |             |    |      |           |
|                                | <u>Ironmongery</u>                                                                                                                                                                                                                                                                                                                    |             |    |      |           |
| B                              | Push bars; installed on internal side of door                                                                                                                                                                                                                                                                                         | 7           | nr |      |           |
|                                | <u>Insulation; 25mm thick PIR insulation; thermal conductivity 0.022W/m2k; to internal sills; include for all required fixings; include for 25 x 50mm battens; include for installation of tiles to match existing; all in accordance with Architects specification and drawings</u>                                                  |             |    |      |           |
|                                | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                        |             |    |      |           |
| C                              | < 300mm wide; refer to Architects detail 5 on Architects drawing 4002- D2- P01                                                                                                                                                                                                                                                        | 7           | m2 |      |           |
|                                | <u>Insulation; structural foam with thermal conductivity of 0.68W/m2k to bottom of curtain walls; all in accordance with manufacturers specification and Architects drawings and specification</u>                                                                                                                                    |             |    |      |           |
|                                | <u>Thermal</u>                                                                                                                                                                                                                                                                                                                        |             |    |      |           |
| D                              | < 300mm high                                                                                                                                                                                                                                                                                                                          | 69          | m  |      |           |
|                                | METALWORK                                                                                                                                                                                                                                                                                                                             |             |    |      |           |
|                                | <u>COMPOSITE ITEMS</u>                                                                                                                                                                                                                                                                                                                |             |    |      |           |
|                                | <u>Supply and install; thermally broken aluminium pressure equalised stick system; triple glazed; thermal performance 0.85W/m2K; curtain walling retrofitted into existing openings; include for all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings and schedules</u> |             |    |      |           |
|                                | <u>Curtain walling</u>                                                                                                                                                                                                                                                                                                                |             |    |      |           |
| E                              | Curtain wall type 1; overall size 13130 x 3600mm high; ref CW00.01                                                                                                                                                                                                                                                                    | 1           | nr |      |           |
| F                              | ^^^^extra over for panels glazed with safety glass; size approx 1190 x 1800mm high                                                                                                                                                                                                                                                    | 11          | nr |      |           |
| G                              | Curtain wall type 2; overall size 6000 x 3950mm high; ref CW00.02                                                                                                                                                                                                                                                                     | 1           | nr |      |           |
| H                              | ^^^^extra over for for panels glazed with safety glass; size approx 1500 x 1590mm high                                                                                                                                                                                                                                                | 4           | nr |      |           |
| I                              | Curtain wall type 3; L- shaped; overall size approx 5208 x 3950mm high; ref CW00.03                                                                                                                                                                                                                                                   | 1           | nr |      |           |
| J                              | ^^^^extra over for glazed one and half leaf door; overall size 1519 x 2245mm high                                                                                                                                                                                                                                                     | 1           | nr |      |           |
| K                              | ^^^^extra over for panels glazed with safety glass; size approx 800 x 1590mm high                                                                                                                                                                                                                                                     | 1           | nr |      |           |
| L                              | ^^^^extra over for panels glazed with safety glass; size approx 1412 x 1590mm high                                                                                                                                                                                                                                                    | 2           | nr |      |           |
| M                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                              | 2           | nr |      |           |
| N                              | ^^^^extra over for secondary support steel work at corner 3950mm high                                                                                                                                                                                                                                                                 | 1           | nr |      |           |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Rate | Total (€)   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      | (Continued) |
| A                              | Curtain wall type 4; overall size 4420 x 2785mm high; ref CW00.04                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr   |             |
| B                              | ^^^^extra over for sliding door; size 1800 x 2110mm high                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr   |             |
| C                              | ^^^^extra over for panels glazed with safety glass; size approx 830 x 2110mm high                                                                                                                                                                                                                                                                                                                                                                                   | 2        | nr   |             |
| D                              | ^^^^extra over for panels glazed with safety glass; size approx 340 x 2110mm high                                                                                                                                                                                                                                                                                                                                                                                   | 2        | nr   |             |
| E                              | ^^^^extra over for spandrel panel; size approx 4420 x 150mm high                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | nr   |             |
| F                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr   |             |
| G                              | ^^^^extra over for electrical works and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr   |             |
| H                              | ^^^^extra over for builders works associated with automation of door                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |             |
| I                              | ^^^^extra over for manifestation                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12       | m2   |             |
| J                              | Curtain wall type 5; overall size 5743 x 2710mm high; ref CW01.01                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr   |             |
| K                              | ^^^^extra over for glazed leaf and half door; size 1605 x 2122mm high                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr   |             |
| L                              | ^^^^extra over for panels glazed with safety glass; size approx 1035 x 893mm high                                                                                                                                                                                                                                                                                                                                                                                   | 4        | nr   |             |
| M                              | ^^^^extra over for metal rail with cane protection fixed at ground level                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr   |             |
|                                | <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; window frame to be slimline frame; u-value requirement &lt;= 0.85W/m2K; powder coated finish; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u> |          |      |             |
|                                | <u>Windows and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |
| N                              | Window Type 1; size 660 x 620mm high                                                                                                                                                                                                                                                                                                                                                                                                                                | 4        | nr   |             |
| O                              | ^^^^extra over for acid etched sanitised glass for privacy                                                                                                                                                                                                                                                                                                                                                                                                          | 4        | nr   |             |
| P                              | ^^^^extra over for extender piece to window frame                                                                                                                                                                                                                                                                                                                                                                                                                   | 4        | nr   |             |
| Q                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                            | 4        | nr   |             |
|                                | <u>Supply and install; thermally broken triple glazed aluminium window system; with fixed panes; u-value requirement &lt;= 0.85W/m2K; powder coated finish; include for all associated ironmongery; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u>                                           |          |      |             |
|                                | <u>Windows and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |             |
| R                              | Window type 2; size 820 x 1820mm high                                                                                                                                                                                                                                                                                                                                                                                                                               | 3        | nr   |             |
| S                              | ^^^^extra over for glazing with safety glass                                                                                                                                                                                                                                                                                                                                                                                                                        | 3        | nr   |             |
| T                              | ^^^^extra over for acid etched sanitised glass for privacy                                                                                                                                                                                                                                                                                                                                                                                                          | 3        | nr   |             |
| U                              | ^^^^extra over for openable section                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3        | nr   |             |
| V                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                            | 3        | nr   |             |
| W                              | Window type 6; size 660 x 1550mm high                                                                                                                                                                                                                                                                                                                                                                                                                               | 2        | nr   |             |
| X                              | ^^^^extra over for glazing with safety glass                                                                                                                                                                                                                                                                                                                                                                                                                        | 2        | nr   |             |
| Y                              | ^^^^extra over for openable section                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr   |             |
| Z                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                                                            | 2        | nr   |             |
| AA                             | Window type 7; size 430 x 630mm high                                                                                                                                                                                                                                                                                                                                                                                                                                | 3        | nr   |             |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity |    | Rate | Total (Γ)   |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|------|-------------|
| (31) EXTERNAL WALL COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |    |      | (Continued) |
| A                              | ^^^^extra over for acid etched sanitised glass for privacy                                                                                                                                                                                                                                                                                                                                                                       | 3        | nr |      |             |
| B                              | ^^^^extra over for openable section                                                                                                                                                                                                                                                                                                                                                                                              | 3        | nr |      |             |
| C                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                         | 3        | nr |      |             |
|                                | <u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; u-value requirement &lt;= 0.85W/m2K; powder coated finish; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u> |          |    |      |             |
|                                | <u>Windows and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                     |          |    |      |             |
| D                              | Window Type 5; size 880 x 850mm high                                                                                                                                                                                                                                                                                                                                                                                             | 5        | nr |      |             |
| E                              | ^^^^extra over for works associated with electrical and BMS requirements                                                                                                                                                                                                                                                                                                                                                         | 5        | nr |      |             |
| F                              | Window type 3; circular; size 840mm diameter                                                                                                                                                                                                                                                                                                                                                                                     | 7        | nr |      |             |
| G                              | Window type 4; size 650 x 650mm high                                                                                                                                                                                                                                                                                                                                                                                             | 3        | nr |      |             |
| H                              | Window type 8; size 1380 x 1680mm high                                                                                                                                                                                                                                                                                                                                                                                           | 1        | nr |      |             |
| I                              | ^^^^extra over for glazing with safety glass                                                                                                                                                                                                                                                                                                                                                                                     | 1        | nr |      |             |
| J                              | ^^^^extra over for acid etched sanitised glass for privacy                                                                                                                                                                                                                                                                                                                                                                       | 1        | nr |      |             |
| K                              | Window type 9; size 3150 x 1050mm high                                                                                                                                                                                                                                                                                                                                                                                           | 4        | nr |      |             |
| L                              | ^^^^extra over for for glazing with safety glass                                                                                                                                                                                                                                                                                                                                                                                 | 4        | nr |      |             |
|                                | <u>Supply and install; solid aluminium doors; high performance solid door leaf and thermally broken aluminium frame; thermal performance u-value &lt;= 0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u>                                                                                                                                         |          |    |      |             |
|                                | <u>Doors and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                       |          |    |      |             |
| M                              | Door type 2; single swing single door; size 1020 x 2140mm high                                                                                                                                                                                                                                                                                                                                                                   | 1        | nr |      |             |
| N                              | Door type 3; single swing one and half leaf door; size 1545 x 2100mm high                                                                                                                                                                                                                                                                                                                                                        | 2        | nr |      |             |
|                                | <u>Pressed metal steel window cills; fixed at base of windows ; including fixings, gaskets and seals; all fixed in position ; profile and fixings in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                   |          |    |      |             |
|                                | <u>Window cills</u>                                                                                                                                                                                                                                                                                                                                                                                                              |          |    |      |             |
| O                              | window cill; approx 260mm wide; to existing blockwalls; refer to details on drawing 4101- D2- P01                                                                                                                                                                                                                                                                                                                                | 63       | m  |      |             |
|                                | GLAZING                                                                                                                                                                                                                                                                                                                                                                                                                          |          |    |      |             |
|                                | <u>COMPOSITE ITEMS</u>                                                                                                                                                                                                                                                                                                                                                                                                           |          |    |      |             |
|                                | <u>Supply and install; glazed aluminium doors; high performance and thermally broken aluminium frame; thermal performance u-value &lt;= 0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u>                                                                                                                                                        |          |    |      |             |
|                                | <u>Doors and framesets</u>                                                                                                                                                                                                                                                                                                                                                                                                       |          |    |      |             |
| P                              | Door type 1; single swing one and half leaf door; size 1500 x 2670mm high                                                                                                                                                                                                                                                                                                                                                        | 2        | nr |      |             |
| Q                              | ^^^^extra over for spandrel panel to door; size 1000 x 800mm high                                                                                                                                                                                                                                                                                                                                                                | 2        | nr |      |             |
| R                              | ^^^^extra over for spandrel panel to door; size 500 x 800mm high                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr |      |             |
|                                | PAINTING AND DECORATION                                                                                                                                                                                                                                                                                                                                                                                                          |          |    |      |             |
|                                | <u>PAINTING</u>                                                                                                                                                                                                                                                                                                                                                                                                                  |          |    |      |             |

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| Description                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (34) STAIR RAMP COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                             | (34) STAIR RAMP COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                             | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                           | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                           | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                           | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                           | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                           | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                             | METALWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                             | <u>NON STRUCTURAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                             | <u>Handrails; Supply and install galvanised steel handrails; fixed on top of parapet; include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                             | <u>Handrails</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| F                           | 1100mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16       | m    |           |
|                             | (34) STAIR RAMP COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (37) ROOF COMPLETIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (37) ROOF COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                     | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | METALWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                       | <u>NON STRUCTURAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | <u>Handrails; Supply and install galvanised steel handrails; fixed on top of parapet; include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                       | <u>Handrails</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| F                     | 1100mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 37       | m    |           |
|                       | <u>Skyway Access Constant Force or equal approved stainless steel restraint system; all systems installed to be suitable for roof type structure and finish as Architects specification; include for all required weathering, flashing installation, permanent labelling/signage and transfastener system for continuous movement around corners / across supports in strict accordance with Architects specification and manufacturers instructions</u>                                                                                                                                                                                         |          |      |           |
|                       | <u>Fall restraint system</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| G                     | to warm insulated roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 116      | m    |           |
| H                     | to curved metal deck roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 104      | m    |           |
|                       | <u>Fall Restraint accessories</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
| I                     | removable transfastner system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3        | nr   |           |
| J                     | full body harness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3        | nr   |           |
| K                     | energy absorbing lanyards; 2m long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6        | nr   |           |
| L                     | PPE storage holdall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |           |
|                       | (37) ROOF COMPLETIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |

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| Description                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (41) WALL FINISHES EXTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                               | (41) WALL FINISHES EXTERNALLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                               | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                             | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                             | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                             | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                             | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                             | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                               | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                               | <u>INSULATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                               | <u>Insulation; EWI mineral wool insulation; to achieve thermal conductivity of 0.036W/m2K; include for preparation of the existing substrate to receive insulation; include for all necessary accessories; all works in accordance with manufacturers instructions, Architects specifications, drawings and details</u>                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                               | <u>Thermal insulation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
| F                             | > 300mm ; 180mm thick; wall type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 299      | m2   |           |
| G                             | ^^^^extra over for reveals and window heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 62       | m    |           |
| H                             | > 300mm ; 120mm thick; wall type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 872      | m2   |           |
| I                             | ^^^^extra over for reveals and window heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 111      | m    |           |
| J                             | > 300mm ; 180mm thick; wall type D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 55       | m2   |           |
| K                             | ^^^^extra over for reveals and window heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5        | m    |           |
| L                             | > 300mm ; 180mm thick; wall type F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 187      | m2   |           |
| M                             | < 300mm; 90mm thick; 150mm high; at abutment of roof type 2 and wall type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 33       | m    |           |
|                               | <u>K- rend or equivalent external wall silicon reinforced render system; including trims, angles beads , reveals and the like as required; all in accordance with Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                               | <u>Walls</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| N                             | < 300mm; 10mm thick; wall type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 62       | m    |           |
| O                             | < 300mm; 10mm thick; wall type B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 111      | m    |           |
| P                             | < 300mm; 10mm thick; wall type D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5        | m    |           |

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| Description                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (42) WALL FINISHES INTERNALLY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                               | (41) WALL FINISHES INTERNALLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                               | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                             | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                             | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                             | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                             | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                             | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                               | WOODWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                               | INSULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
|                               | <u>Insulation; IWI mineral wool insulation; to achieve thermal conductivity of 0.036W/mK ; include for preparation of the existing substrate to receive insulation; include for all necessary accessories and proprietary metal framing/ bracket profiles ; all works in accordance with manufacturers instructions, Architects specifications, drawings and details</u>                                                                                                                                                                                                                                                                         |          |      |           |
|                               | <u>Thermal insulation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
| F                             | > 300mm ; 100mm thick; wall type G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 43       | m2   |           |
| G                             | ^^^^extra over for reveals and window heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |           |
|                               | FLOOR WALL AND CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                               | BOARD FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                               | <u>Plasterboard; 12.5mm thick plasterboard with 2.5mm skim coat; fixed to walls onto insulation (e.m); include for all fixings; all joints to be taped, filled and finished to smooth surface; all in accordance with Architects specification , drawings and details</u>                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                               | <u>Wall linings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |           |
| H                             | < 300mm girth; wall type G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 43       | m2   |           |
| I                             | ^^^^extra over for abutment to other finishes (adjacent walls, floors and ceilings)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |           |
| J                             | ^^^^extra over for reveals and window and door heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6        | m    |           |
| K                             | ^^^^extra over for forming 20mm wide cavity between insulation and plasterboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 43       | m2   |           |
|                               | PAINTING AND DECORATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |

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| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (45) CEILING FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (45) CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
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| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | FLOOR WALL CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
|                       | <u>FINISHES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | <u>Ceilings; acoustic ceiling system; fixed to underside of roofing system (e.m); include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                       | <u>Ceilings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| F                     | > 300mm; curved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 853      | m2   |           |
|                       | (45) CEILING FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |

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| Description       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (46) AIRTIGHTNESS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                   | (46) AIRTIGHTNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                   | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                 | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                                            | 1        | Note |           |
| B                 | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                 | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                 | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                 | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                   | <u>AIRTIGHTNESS UPGRADES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                   | <u>Allow for sealing all junctions between blockworks and window/door reveals/heads/cills, service penetrations through walls and ceilings and the like; to achieve an airtightness level of 5m3/hr/m2 @50Pa; using appropriate airtightness tapes and membranes; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                                                                                             |          |      |           |
| F                 | generally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
|                   | <u>AIRTIGHTNESS TESTING AND CERTIFICATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
|                   | <u>Allow for testing all works for airtightness; building required to achieve airtightness level of 5m3/hr/m2 @50Pa; testing to be carried out in accordance with Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| G                 | generally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
| H                 | Builders attendance preparing for tests (including taping up vents,dummy doors and the like)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |           |
|                   | (46) AIRTIGHTNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |

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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                    | (47) ROOF FINISHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
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| B                  | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
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| E                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                    | ROOFING, CLADDING, WATERPROOFING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                    | <u>NON METAL FLEXIBLE SHEET COVERINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                    | <u>Vapour control membrane; torch applied elastomeric bitumen air &amp; vapour control layer with aluminium reinforcement with nominal thickness 3.5mm; installed in accordance with manufacturers instructions; lapped at ends; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                    | <u>Waterproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| F                  | > 300mm; roof type 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 90       | m2   |           |
| G                  | > 300mm; roof type 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 231      | m2   |           |
| H                  | > 300mm; horizontal; infill panels to roof light locations [6nr locations]; roof type 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 57       | m2   |           |
|                    | <u>Vapour control membrane; reinforced polyethylene or equivalent; side and end laps fully sealed with compatible sealant tape and sealed around perimeter; include for all necessary works and accessories; all in accordance with manufacturers instructions and Architects specifications</u>                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                    | <u>Waterproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| I                  | > 300mm; curved; roof type 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 853      | m2   |           |
|                    | <u>Vapour control membrane; reinforced; minimum thickness 2.5mm ; fully bonded or mechanically fixed ; include for side and end laps fully sealed; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                    | <u>Waterproofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
| J                  | > 300mm; horizontal; roof type 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 407      | m2   |           |
| K                  | ^^^^extra over for flashings and weathering where rainwater downpipes (e.m) passing through flat roof from the curved roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6        | nr   |           |
| L                  | > 300mm wide; horizontal; 460mm wide; to top of parapet; roof type 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21       | m2   |           |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
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| Description        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity    |    | Rate | Total (€) |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|------|-----------|
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (Continued) |    |      |           |
| A                  | > 300mm wide; horizontal; 750mm wide; to top of parapet; roof type 4<br><u>Upstands</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 67          | m2 |      |           |
| B                  | > 300mm; vertical; 500mm high; roof type 4<br><u>Warm roof; Reinforced bitumen membrane warm roof covering; two layer torch applied warm roof bitumen waterproofing system; system comprising of bitumen compatible primer applied to deck, air &amp; vapour control layer (e.m) fixed on to primer, rigid PIR insulation (e.m) laid on top of AVCL, elastomeric bitumen self adhesive underlayer (e.m), and reinforced elastomeric bitumen torch applied capping membrane; installed in accordance with manufacturers instructions; lapped at ends; all in accordance with Architects specification and drawings</u><br><u>Roofing</u> | 68          | m2 |      |           |
| C                  | > 300mm; roof type 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 90          | m2 |      |           |
| D                  | > 300mm; roof type 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 231         | m2 |      |           |
| E                  | > 300mm; horizontal; infill panels to roof light locations [6nr locations]; roof type 5<br><u>Upstands</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 57          | m2 |      |           |
| F                  | > 300mm; vertical; 965mm high; roof type 3<br><u>Single ply polymeric sheet system; comprising of air &amp; vapour control layer (e.m), Insulation (e.m), and reinforced polymeric membrane with a thickness of 1.8mm ; membrane to be mechanically fixed; all in accordance with manufacturers instructions and Architects specifications</u><br><u>Roofing</u>                                                                                                                                                                                                                                                                        | 25          | m2 |      |           |
| G                  | > 300mm; horizontal; roof type 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 407         | m2 |      |           |
| H                  | ^^^^extra over for flashings and weathering where rainwater downpipes (e.m) pass through flat roof from the curved roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6           | nr |      |           |
| I                  | > 300mm wide; horizontal; 460mm wide; to top of parapet; roof type 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 21          | m2 |      |           |
| J                  | > 300mm wide; horizontal; 750mm wide; to top of parapet; roof type 4<br><u>Upstands</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 67          | m2 |      |           |
| K                  | > 300mm; vertical; 500mm high; roof type 4<br><u>RIGID SHEET COVERINGS AND DECKING</u><br><u>Aluminium acoustic liner sheets; 0.9mm thick; perforated for acoustic performance; include for side and end laps; all in accordance with manufacturers instructions and Architects specification</u><br><u>Roofing</u>                                                                                                                                                                                                                                                                                                                     | 68          | m2 |      |           |
| L                  | > 300mm; curved; roof type 1<br><u>Metal profiled self supporting cladding system; aluminium standing seam; to achieve a thermal transmittance of 0.15W/m2K; to be fixed to existing steel structure and mechanically fixed to supporty clips; include for all necessary accessories; all in accordance with accordance manufacturers instructions and Architects specification</u><br><u>Roofing</u>                                                                                                                                                                                                                                   | 853         | m2 |      |           |
| M                  | > 300mm; curved; roof type 1<br><u>Reinstallation of canopy structure (previously set aside); all in accordance with Architects specification and drawings</u><br><u>Roofing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 853         | m2 |      |           |
| N                  | > 300mm wide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12          | m2 |      |           |

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| (47) ROOF FINISHES |                                                                                                                                                                                                                                                                    | (Continued) |    |      |           |
| A                  | <u>FLEXIBLE SHEET METAL COVERINGS</u>                                                                                                                                                                                                                              |             |    |      |           |
|                    | <u>Aluminium gutter; insulated; fixed as hidden within roofing system (e.m); include for all necessary fixings and accessories; all in accordance with manufacturers instructions and Architects specification, drawings and detail 4 on drawing 4002- D2- P01</u> |             |    |      |           |
|                    | <u>Gutters</u>                                                                                                                                                                                                                                                     |             |    |      |           |
|                    | approx 500mm wide x 150mm deep                                                                                                                                                                                                                                     | 39          | m  |      |           |
| B                  | <u>WOODWORK</u>                                                                                                                                                                                                                                                    |             |    |      |           |
|                    | <u>BOARDING &amp; SECOND FIXINGS</u>                                                                                                                                                                                                                               |             |    |      |           |
|                    | <u>Marine plywood securely fixed to parapet structure; include all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                             |             |    |      |           |
|                    | <u>Parapet capping</u>                                                                                                                                                                                                                                             |             |    |      |           |
| B                  | 18mm thick; approx 460mm wide                                                                                                                                                                                                                                      | 46          | m  |      |           |
| C                  | 18mm thick; 715mm wide                                                                                                                                                                                                                                             | 35          | m  |      |           |
| D                  | 18mm thick; 750mm wide                                                                                                                                                                                                                                             | 89          | m  |      |           |
| E                  | <u>IRONMONGERY, ACCESSORIES, AND SUNDRIES</u>                                                                                                                                                                                                                      |             |    |      |           |
|                    | <u>Insulation; Rigid PIR insulation; to achieve a thermal conductivity of 0.022W/m2K; installed on top of existing roof membrane; all in accordance with manufacturers instructions and Architects specification and drawings</u>                                  |             |    |      |           |
|                    | <u>Thermal</u>                                                                                                                                                                                                                                                     |             |    |      |           |
|                    | > 300mm; horizontal; roof type 2                                                                                                                                                                                                                                   | 90          | m2 |      |           |
| F                  | > 300mm; horizontal; roof type 3                                                                                                                                                                                                                                   | 231         | m2 |      |           |
| G                  | > 300mm; horizontal; 80mm thick; roof type 4                                                                                                                                                                                                                       | 407         | m2 |      |           |
| H                  | ^^^^extra over for forming recess for a gutter; approx 520mm wide; refer to Architects detail 2 on drawing 1104- D2- P02                                                                                                                                           | 57          | m  |      |           |
| I                  | > 300mm wide; horizontal; to top of parapets; roof type 4                                                                                                                                                                                                          | 76          | m2 |      |           |
| J                  | > 300mm; horizontal; 120mm thick; infill panels to roof light locations [6nr locations]; roof type 5                                                                                                                                                               | 57          | m2 |      |           |
| K                  | > 300mm; vertical; 60mm thick; approx 500mm high; roof type 4                                                                                                                                                                                                      | 68          | m2 |      |           |
| L                  | > 300mm; vertical; 60mm thick; approx 965mm high; roof type 3                                                                                                                                                                                                      | 25          | m2 |      |           |
| M                  | ^^^^extra over for fillet pieces to upstands                                                                                                                                                                                                                       | 161         | m  |      |           |
| N                  | <u>Insulation; structural foam; fixed around projecting steel members and finished with 10mm reinforced render finish; all in accordance with manufacturers instructions and Architects specifications and detail 3 on drawing 4002- D2- P01</u>                   |             |    |      |           |
|                    | <u>Thermal</u>                                                                                                                                                                                                                                                     |             |    |      |           |
|                    | < 300mm; 60mm thick; to steel members approx 1150mm long                                                                                                                                                                                                           | 22          | m  |      |           |
|                    | <u>Insulation; mineral wool rockfibre slab or equivalent with tissue facing ; with density 100kg/m3; installed as part of roof system; include all necessary accessories; all in accordance with manufacturers instructions and Architects specification</u>       |             |    |      |           |
| O                  | <u>Acoustic</u>                                                                                                                                                                                                                                                    |             |    |      |           |
|                    | > 300mm; 30mm thick; curved; roof type 1                                                                                                                                                                                                                           | 853         | m2 |      |           |

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| Description        |                                                                                                                                                                                                                                                        | Quantity | Rate | Total (€)   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                        |          |      | (Continued) |
| A                  | <u>Insulation; mineral wool or equivalent; to achieve a maximum u-value of 0.15W/m2K; 260mm thick compressed to 245mm thick; include for all necessary accessories; all in accordance with manufacturers instructions and Architects specification</u> |          |      |             |
|                    | <u>Thermal</u>                                                                                                                                                                                                                                         |          |      |             |
|                    | > 300mm; 245mm thick; curved; roof type 1                                                                                                                                                                                                              | 853      | m2   |             |
|                    | METALWORK                                                                                                                                                                                                                                              |          |      |             |
|                    | <u>NON STRUCTURAL</u>                                                                                                                                                                                                                                  |          |      |             |
|                    | <u>3mm thick PPC aluminium capping fixed to parapets; include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                              |          |      |             |
|                    | <u>Parapet capping</u>                                                                                                                                                                                                                                 |          |      |             |
|                    | B 600 - 750mm girth                                                                                                                                                                                                                                    | 35       | m    |             |
|                    | C 900 - 1050mm girth                                                                                                                                                                                                                                   | 46       | m    |             |
|                    | D 1050 - 1200mm girth                                                                                                                                                                                                                                  | 89       | m    |             |
| E                  | <u>PPC aluminum flashings; include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                                         |          |      |             |
|                    | <u>Flashings</u>                                                                                                                                                                                                                                       |          |      |             |
|                    | < 150mm girth; roof type 1                                                                                                                                                                                                                             | 39       | m    |             |
|                    | F 300 - 450mm girth; fixed to existing steel purlins; roof type 1                                                                                                                                                                                      | 78       | m    |             |
|                    | <u>Pressed steel; include for all necessary fixings; all in accordance with Architects specification and drawings</u>                                                                                                                                  |          |      |             |
|                    | <u>Fascias</u>                                                                                                                                                                                                                                         |          |      |             |
|                    | G 600 - 750mm girth                                                                                                                                                                                                                                    | 78       | m    |             |
|                    | H 600 - 750mm girth; curved                                                                                                                                                                                                                            | 44       | m    |             |
|                    | <u>Soffits</u>                                                                                                                                                                                                                                         |          |      |             |
|                    | I 750- 900mm girth                                                                                                                                                                                                                                     | 78       | m    |             |
| J                  | 750 - 900mm girth; curved                                                                                                                                                                                                                              | 44       | m    |             |
| (47) ROOF FINISHES |                                                                                                                                                                                                                                                        |          |      |             |

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| Description          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (48) RAINWATER GOODS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                      | (48) RAINWATER GOODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |
|                      | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                    | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                    | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                    | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                    | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                    | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                      | DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                      | <u>DISPOSAL ABOVE GROUND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                      | <u>Gutters; aluminium box gutter; 2mm thickness; include for strap brackets, jointing clips, stop ends; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                      | <u>Gutters</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| F                    | nominal size 500mm wide x 100mm deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 39       | m    |           |
|                      | <u>Extra over on above for</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
| G                    | 110mm diameter outlets to downpipe connections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6        | nr   |           |
| H                    | 110mm diameter, harmer head outlets, mechanically fixed into concrete deck; refer to Architects detail 2 on drawing 1104- D2- P02 and detail 4 on drawing 4004- D2- P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10       | nr   |           |
|                      | <u>Downpipes; stainless steel downpipes; 110mm diameter; include for all necessary fixings and accessories; all in accordance with Architects specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                      | <u>Downpipes</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
| I                    | 110mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 51       | m    |           |
| J                    | ^^^^extra over for 40mm thick mineral wool insulation wrapped around downpipes internally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 89       | m    |           |
| K                    | ^^^^extra over for bends                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20       | nr   |           |
|                      | (48) RAINWATER GOODS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |           |

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| Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                     | (51) HEATING CENTRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                   | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba mechanical drawings 10002-IRB-XX-XX-D-M-57001, 10002-IRB-XX-BM-D-M-57002, 10002-IRB-XX-BM-D-M-57001, 10002-IRB-XX-01-D-M-57001, 10002-IRB-XX-ZZ-D-M-55002, 10002-IRB-XX-ZZ-L-M-50001                                                                                                                                                                                                                                                     | 1        | note |           |
| B                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                   | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                   | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                   | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                   | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                   | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                   | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| J                   | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co- ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | note |           |
| K                   | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| L                   | The contractor shall note that all pipework and ductwork routes are indicative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| M                   | Water Service Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| N                   | Automatic air vents to be fitted at all high points throughout the pipework system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| O                   | Drain cocks to be fitted at all low points (per level and in each service riser) throughout the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| P                   | Ball- O- Fix valves for external taps shall be fitted internally with easy access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| Q                   | Pipework insulation shall be preformed sections of rigid mineral wool with aluminium foil laminate cover. Insulation shall be fitted to all connections, bends, tees and valves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| R                   | Proprietary jackets with velcro fixing shall be used on all valves over 32mm. Additional taping shall be provided at 2m intervals on insulation within plantrooms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | note |           |

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|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                           |          |      | (Continued) |
| A                   | All hot water outlets shall be provided with TMV3 fail- safe lockable thermostatic blending valves limiting maximum temperature to 43°C. Back- to- back or groups of wash hand basins shall be served by a single blending valve.                                                         | 1        | note |             |
| B                   | All outlets to be provided with quarter turn ball valves to facilitate maintenance.                                                                                                                                                                                                       | 1        | note |             |
| C                   | Refer to hydronic schematic for primary route valve arrangements. Line size lever- action isolating valves to be provided on ALL branch/tee connections (risers, primary runs, secondary runs and final equipment).                                                                       | 1        | note |             |
| D                   | Pressure reducing valves to be provided onto each floor level at each service riser (refer to schematic)                                                                                                                                                                                  | 1        | note |             |
| E                   | Contractor to finalize pump pressure (KPA) once pipes final routes are finalized                                                                                                                                                                                                          | 1        | note |             |
|                     | STRIP OUT                                                                                                                                                                                                                                                                                 |          |      |             |
|                     | <u>Decommission and strip out existing equipment or accessories; include for capping pipework to be retained; disconnect from electrical supply and wiring; include for disposal of equipment as directed by Client /ER ; all in accordance with Engineers specification and drawings</u> |          |      |             |
|                     | <u>Existing Equipment or accessories</u>                                                                                                                                                                                                                                                  |          |      |             |
| F                   | existing boilers                                                                                                                                                                                                                                                                          | 2        | nr   |             |
| G                   | flues to existing boilers; 350mm diameter; to be completely removed from boilers to roof vent terminations                                                                                                                                                                                | 2        | nr   |             |
| H                   | remove existing gas piping and cap at entry to boiler room                                                                                                                                                                                                                                | 1        | item |             |
| I                   | remove existing flow and return piping to and from boilers including main headers and piping support s                                                                                                                                                                                    | 1        | item |             |
| J                   | existing CHP unit, including all associated pipng and the like                                                                                                                                                                                                                            | 1        | item |             |
| K                   | existing pressurization tank; including all associated pipework and accessories                                                                                                                                                                                                           | 1        | item |             |
| L                   | existing expansion vessel; including all associated pipework and accessories                                                                                                                                                                                                              | 1        | item |             |
|                     | UPGRADE EXISTING EQUIPMENT                                                                                                                                                                                                                                                                |          |      |             |
| M                   | Allow for upgrading existing MCC panels; in accordance with Engineers specification                                                                                                                                                                                                       | 1        | item |             |
|                     | TRACKING/TRACING                                                                                                                                                                                                                                                                          |          |      |             |
|                     | <u>HEAT TRACING</u>                                                                                                                                                                                                                                                                       |          |      |             |
| N                   | Contractor to allow for heat tracing to new pipework; all in accordance with Engineers specification                                                                                                                                                                                      | 1        | item |             |
|                     | HEATING SERVICES                                                                                                                                                                                                                                                                          |          |      |             |
|                     | <u>PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                                                  |          |      |             |
|                     | <u>Supply , assemble, install, test &amp; commission the following equipment; in accordance with manufacturers instructions and Engineers specification and drawings</u>                                                                                                                  |          |      |             |
|                     | <u>Boilers</u>                                                                                                                                                                                                                                                                            |          |      |             |
| O                   | Boilers; Baxi or equivalent; natural gas boiler skid; gas consumption 13.1m3h each; each boiler complete with packaged shunt pump and combined concentric flue kit to be provided for boilers for flue exhaust and combustion air inlet; ref B- 01/02/03/04                               | 4        | nr   |             |
|                     | <u>Buffer tank</u>                                                                                                                                                                                                                                                                        |          |      |             |
| P                   | Buffer vessel; Mastertherm or equivalent; 1000L capacity; complete with 3nr internal baffles and 6nr 100mm diameter connection ports; ref BT- 01                                                                                                                                          | 1        | nr   |             |
|                     | <u>Air Source Heat pumps</u>                                                                                                                                                                                                                                                              |          |      |             |

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| Description         |                                                                                                                                                                                                                                                                                                                                                                                              | Quantity    |      | Rate | Total (€) |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                                                                                                                              | (Continued) |      |      |           |
| A                   | ASHP; Mastertherm or equivalent ; 50kw capacity; ref ASHP- 01, ASHP- 02, ASHP- 03, ASHP- 04<br><u>Pressurization unit</u>                                                                                                                                                                                                                                                                    | 4           | nr   |      |           |
| B                   | Pressurization unit; Pumps UK Autopress Twin Pump or equivalent; capacity 18 litres; pressure range exceeding 2.5 bar; include for twim pumps; include for all necessary works; all works in accordance with manufacturers instructions and specification<br><u>Expansion vessel</u>                                                                                                         | 1           | nr   |      |           |
| C                   | Expansion vessel; Xylem or equivalent; 150 Litre capacity; include for all accessories; all in accordance with manufacturers instructions and specification<br><u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u><br><u>Supply and install; the following associated with plant and equipment; in accordance with Engineers specification</u><br><u>Control panels</u>                     | 1           | nr   |      |           |
| D                   | Heat pump control panel , complete with extension box; include for connection to existing BMS, temp probes and DHW tank temp probes; refer to drawing M- 55002<br><u>Pumps</u>                                                                                                                                                                                                               | 1           | nr   |      |           |
| E                   | Pumps; Grundfos Magna3 D 32- 100 or equivalent; flow 0.91 l/s; ref P- 06                                                                                                                                                                                                                                                                                                                     | 1           | nr   |      |           |
| F                   | Pumps; Grundfos Magna3 D65- 60F or equivalent; flow 6.38 l/s; ref P- 07<br><u>Valves and the like</u>                                                                                                                                                                                                                                                                                        | 1           | nr   |      |           |
| G                   | Isolating valves                                                                                                                                                                                                                                                                                                                                                                             | 20          | nr   |      |           |
| H                   | Strainer valves                                                                                                                                                                                                                                                                                                                                                                              | 4           | nr   |      |           |
| I                   | Non return valves                                                                                                                                                                                                                                                                                                                                                                            | 5           | nr   |      |           |
| J                   | Heat meters                                                                                                                                                                                                                                                                                                                                                                                  | 2           | nr   |      |           |
| K                   | low loss header                                                                                                                                                                                                                                                                                                                                                                              | 1           | nr   |      |           |
| L                   | drain cock                                                                                                                                                                                                                                                                                                                                                                                   | 2           | nr   |      |           |
| M                   | automatic air valve                                                                                                                                                                                                                                                                                                                                                                          | 1           | nr   |      |           |
| N                   | temperature gauge                                                                                                                                                                                                                                                                                                                                                                            | 4           | nr   |      |           |
| O                   | 2- port PIC valves                                                                                                                                                                                                                                                                                                                                                                           | 6           | nr   |      |           |
| P                   | Gas sniffers and emergency shut off system<br><u>DISTRIBUTION SYSTEM</u><br><u>Supply &amp; install, test and commission distribution pipework; including bends, tees; fittings, joints, supports and connections to existing pipework as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001 &amp; M- 55002</u><br><u>Pipework</u> | 1           | item |      |           |
| Q                   | 80mm diameter; to connect gas boilers to buffer vessel<br><u>Supply &amp; install, test and commission distribution pipework; including bends, tees; fittings, joints, supports and connections to existing pipework as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001 &amp; M- 55002</u><br><u>Pipework</u>                   | 1           | item |      |           |
| R                   | 32mm diameter; to connect gas boilers to calorifie r                                                                                                                                                                                                                                                                                                                                         | 1           | item |      |           |

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| Description         |                                                                                                                                                                                                                                                                                                         | Quantity | Rate | Total (€)   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                                         |          |      | (Continued) |
|                     | <u>Supply &amp; install, test and commission distribution pipework; including bends, tees, fittings, joints, supports and connections to existing pipework as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001, M- 57002 &amp; M- 55002</u> |          |      |             |
|                     | <u>Pipework</u>                                                                                                                                                                                                                                                                                         |          |      |             |
| A                   | 65mm diameter; to connect air source heat pumps to buffer vessel                                                                                                                                                                                                                                        | 1        | item |             |
|                     | <u>Supply &amp; install, test and commission distribution pipework; including bends, tees, fittings, joints, supports and connections to existing pipework as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001</u>                          |          |      |             |
|                     | <u>Pipework</u>                                                                                                                                                                                                                                                                                         |          |      |             |
| B                   | 32mm diameter; LTHW pipework; in connection with coil in AHU- 02                                                                                                                                                                                                                                        | 1        | item |             |
| C                   | 65mm diameter; LTHW pipework; in connection with coil in AHU- 01                                                                                                                                                                                                                                        | 1        | item |             |
|                     | <u>INSULATION</u>                                                                                                                                                                                                                                                                                       |          |      |             |
|                     | <u>Supply and install; insulation in accordance with Engineers specification</u>                                                                                                                                                                                                                        |          |      |             |
| D                   | to pipework; outside the building                                                                                                                                                                                                                                                                       | 1        | item |             |
| E                   | to pipework; inside the building                                                                                                                                                                                                                                                                        | 1        | item |             |
|                     | <u>GENERAL</u>                                                                                                                                                                                                                                                                                          |          |      |             |
| F                   | Allow for rebalancing of existing hydronic circuits upon completion of the works; all in accordance with Engineers specification                                                                                                                                                                        | 1        | item |             |
| G                   | Testing and commissioning of heating installations; in accordance with the Engineers specification                                                                                                                                                                                                      | 1        | item |             |
| H                   | Operating and maintenance manuals                                                                                                                                                                                                                                                                       | 1        | item |             |
| I                   | As built drawings                                                                                                                                                                                                                                                                                       | 1        | item |             |
| J                   | Identification plates, labels and the like                                                                                                                                                                                                                                                              | 1        | item |             |
| (51) HEATING CENTRE |                                                                                                                                                                                                                                                                                                         |          |      |             |

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| Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity |      | Rate | Total (Γ) |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-----------|
| (53) WATER DISTRIBUTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |      |           |
|                         | (53) WATER DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |      |           |
|                         | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |      |           |
| A                       | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba mechanical drawings 10002-IRB-XX-XX- D- M- 57001, 10002-IRB-XX- BM- D- M- 57002, 10002-IRB-XX- BM- D- M- 57001, 10002-IRB-XX-01- D- M- 57001, 10002-IRB-XX- ZZ- D- M- 55002, 10002-IRB-XX- ZZ- L- M- 50001                                                                                                                                                                                                                               | 1        | note |      |           |
| B                       | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |      |           |
| C                       | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |      |           |
| D                       | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |      |           |
| E                       | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |      |           |
| F                       | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |      |           |
| G                       | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |      |           |
| H                       | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| I                       | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |      |           |
| J                       | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co- ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | note |      |           |
| K                       | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |      |           |
| L                       | The contractor shall note that all pipework and ductwork routes are indicative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |      |           |
| M                       | Water Service Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      |           |
| N                       | Automatic air vents to be fitted at all high points throughout the pipework system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| O                       | Drain cocks to be fitted at all low points (per level and in each service riser) throughout the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |      |           |
| P                       | Ball- O- Fix valves for external taps shall be fitted internally with easy access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |      |           |
| Q                       | Pipework insulation shall be preformed sections of rigid mineral wool with aluminium foil laminate cover. Insulation shall be fitted to all connections, bends, tees and valves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |      |           |
| R                       | Proprietary jackets with velcro fixing shall be used on all valves over 32mm. Additional taping shall be provided at 2m intervals on insulation within plantrooms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | note |      |           |

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| Description             |                                                                                                                                                                                                                                                                                            | Quantity | Rate | Total (€)   |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (53) WATER DISTRIBUTION |                                                                                                                                                                                                                                                                                            |          |      | (Continued) |
| A                       | All hot water outlets shall be provided with TMV3 fail- safe lockable thermostatic blending valves limiting maximum temperature to 43°C. Back- to- back or groups of wash hand basins shall be served by a single blending valve.                                                          | 1        | note |             |
| B                       | All outlets to be provided with quarter turn ball valves to facilitate maintenance.                                                                                                                                                                                                        | 1        | note |             |
| C                       | Refer to hydronic schematic for primary route valve arrangements. Line size lever- action isolating valves to be provided on ALL branch/tee connections (risers, primary runs, secondary runs and final equipment).                                                                        | 1        | note |             |
| D                       | Pressure reducing valves to be provided onto each floor level at each service riser (refer to schematic)                                                                                                                                                                                   | 1        | note |             |
| E                       | Contractor to finalize pump pressure (KPA) once pipes final routes are finalized                                                                                                                                                                                                           | 1        | note |             |
|                         | STRIP OUT                                                                                                                                                                                                                                                                                  |          |      |             |
|                         | <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                   |          |      |             |
|                         | <u>Decommission and strip out existing equipment or accessories; include for capping pipework to be retained; disconnect from electrical supply and wiring; include for disposal of equipment as directed by Client / ER ; all in accordance with Engineers specification and drawings</u> |          |      |             |
|                         | <u>Existing Equipment or accessories</u>                                                                                                                                                                                                                                                   |          |      |             |
| F                       | existing storage tank and heat exchanger; pump to be retained                                                                                                                                                                                                                              | 1        | nr   |             |
|                         | WATER DISTRIBUTION INSTALLATION                                                                                                                                                                                                                                                            |          |      |             |
|                         | <u>PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                                                   |          |      |             |
|                         | <u>Supply and install; primary equipment associated with water distribution installation; all in accordance with Engineers drawings and specification</u>                                                                                                                                  |          |      |             |
|                         | <u>Calorifier</u>                                                                                                                                                                                                                                                                          |          |      |             |
| G                       | Calorifier; Mastertherm or equivalent Maxi 1000/2; preinsulated twin coil cylinder; approximate size 1060mm diameter x 2135mm high; 985L capacity; ref DHWC- 01                                                                                                                            | 1        | nr   |             |
|                         | <u>Water- to- water Heat Pumps</u>                                                                                                                                                                                                                                                         |          |      |             |
| H                       | WWHP; Mastertherm or equivalent AQ40Z, 40kW capacity; including heat exchanger; ref WWHP- 01                                                                                                                                                                                               | 1        | nr   |             |
|                         | <u>Flow and return headers</u>                                                                                                                                                                                                                                                             |          |      |             |
| I                       | 150mm diameter                                                                                                                                                                                                                                                                             | 1        | item |             |
|                         | <u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                       |          |      |             |
|                         | <u>Supply and install; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                     |          |      |             |
|                         | <u>Valves, pumps and the like</u>                                                                                                                                                                                                                                                          |          |      |             |
| J                       | Pumps; Grundfos Magna3 D65- 150F or equivalent; flow 7.4l/s; ref P- 01                                                                                                                                                                                                                     | 1        | nr   |             |
| K                       | Pumps; Grundfos Magna3 D40- 150F or equivalent; flow 1.9l/s; ref P- 02                                                                                                                                                                                                                     | 1        | nr   |             |
| L                       | Pumps; Grundfos Magna3 D40- 80F or equivalent; flow 2.12l/s; ref P- 03                                                                                                                                                                                                                     | 1        | nr   |             |
| M                       | Pumps; Grundfos Magna3 D65- 150F or equivalent; flow 7.15l/s; ref P- 04                                                                                                                                                                                                                    | 1        | nr   |             |
| N                       | Pumps; Grundfos Magna3 D40- 60F or equivalent; flow 1.32l/s; ref P- 05                                                                                                                                                                                                                     | 1        | nr   |             |
| O                       | Isolating valves                                                                                                                                                                                                                                                                           | 13       | nr   |             |
| P                       | 3- port control valve                                                                                                                                                                                                                                                                      | 1        | nr   |             |
| Q                       | Thermostat                                                                                                                                                                                                                                                                                 | 3        | nr   |             |
| R                       | Temperature gauge                                                                                                                                                                                                                                                                          | 5        | nr   |             |
| S                       | Magnetic filter/ separator                                                                                                                                                                                                                                                                 | 1        | nr   |             |

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| Description             |                                                                                                                                                                   | Quantity    |      | Rate | Total (€) |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (53) WATER DISTRIBUTION |                                                                                                                                                                   | (Continued) |      |      |           |
|                         | <u>DISTRUBUTION SYSTEM</u>                                                                                                                                        |             |      |      |           |
|                         | <u>Pipework; supply and install; pipework to connect buffer vessel to flow and return headers; in accordance with Engineers specification and drawing M-55002</u> |             |      |      |           |
|                         | <u>Pipework</u>                                                                                                                                                   |             |      |      |           |
| A                       | 100mm diameter                                                                                                                                                    | 1           | item |      |           |
|                         | <u>Pipework; Supply and install; pipework to connect calorifier to flow and return headers; in accordance with Engineers specification and drawing M-55002</u>    |             |      |      |           |
|                         | <u>Pipework</u>                                                                                                                                                   |             |      |      |           |
| B                       | 50mm diameter                                                                                                                                                     | 1           | item |      |           |
|                         | <u>INSULATION</u>                                                                                                                                                 |             |      |      |           |
|                         | <u>Supply and install; insulation; in accordance with Engineers specification and drawings</u>                                                                    |             |      |      |           |
|                         | <u>Insulation</u>                                                                                                                                                 |             |      |      |           |
| C                       | to pipework; outside the building                                                                                                                                 | 1           | item |      |           |
| D                       | to pipework ; inside the building                                                                                                                                 | 1           | item |      |           |
|                         | <u>GENERAL</u>                                                                                                                                                    |             |      |      |           |
| E                       | Testing and commissioning of water distribution installations; in accordance with the Engineers specification                                                     | 1           | item |      |           |
| F                       | Operating and maintainance manuals                                                                                                                                | 1           | item |      |           |
| G                       | As built drawings                                                                                                                                                 | 1           | item |      |           |
| H                       | Identification plates, labels and the like                                                                                                                        | 1           | item |      |           |
|                         | (53) WATER DISTRIBUTION                                                                                                                                           |             |      |      |           |

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| Description               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (57) VENTILATION SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                           | (57) VENTILATION SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                           | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                         | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba mechanical drawings 10002-IRB-XX-XX-D-M-57001, 10002-IRB-XX-BM-D-M-57002, 10002-IRB-XX-BM-D-M-57001, 10002-IRB-XX-01-D-M-57001, 10002-IRB-XX-ZZ-D-M-55002, 10002-IRB-XX-ZZ-L-M-50001                                                                                                                                                                                                                                                     | 1        | note |           |
| B                         | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                         | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                         | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                         | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                         | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                         | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                         | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                         | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| J                         | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| K                         | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| L                         | The contractor shall note that all pipework and ductwork routes are indicative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
|                           | STRIP OUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
|                           | <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                           | <u>Decommission and strip out existing equipment or accessories; include for strip out pipework and ductwork; include for disposal as directed by Client/ER; all in accordance with Engineers specification and drawing M-57001</u>                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                           | <u>Existing equipment or accessories</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
| M                         | existing AHU; including associated connections, wiring and ancillaries; ref AHU-01 and AHU-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2        | nr   |           |
| N                         | existing ductwork; including insulation, supports and hangers, include for capping retained ductwork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |           |
| O                         | existing LTHW heating pipework stripped back to main valves at entry of plantroom; including insulation, supports and hangers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |           |

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| Description                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           | Quantity    |      | Rate | Total (€) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-----------|
| (57) VENTILATION SERVICES                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           | (Continued) |      |      |           |
| VENTILATION INSTALLATIONS                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |             |      |      |           |
| <u>PLANT AND EQUIPMENT</u>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                           |             |      |      |           |
| <u>Supply, assemble, install, test &amp; commission the following primary equipment; in accordance with the manufacturer's instructions and as per Engineers specification and drawings</u>                                                                                                                                                                     |                                                                                                                                                                                           |             |      |      |           |
| <u>AHU units</u>                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |             |      |      |           |
| A                                                                                                                                                                                                                                                                                                                                                               | AHU; Recotherm Artis 550 or equivalent; supply air volume 5.5m3/s; return air volume 5.5m3/s; complete with integral control panel; include for connection into existing BMS; ref AHU- 01 | 1           | nr   |      |           |
| B                                                                                                                                                                                                                                                                                                                                                               | AHU; Recotherm Aeris 100 or equivalent; supply air volume 1.0m3/s; return air volume 1.0m3/s; complete with integral control panel; include for connection into existing BMS; ref AHU- 02 | 1           | nr   |      |           |
| <u>FITTINGS &amp; ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                           |             |      |      |           |
| <u>Supply, assemble, install, test &amp; commission the following accessories associated with terminal equipment/fittings in accordance with the manufacturer's instructions and Engineers specification</u>                                                                                                                                                    |                                                                                                                                                                                           |             |      |      |           |
| <u>Accessories</u>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                           |             |      |      |           |
| C                                                                                                                                                                                                                                                                                                                                                               | Equipment supports; in accordance with manufacturers instructions and Engineers specification                                                                                             | 1           | item |      |           |
| D                                                                                                                                                                                                                                                                                                                                                               | Anti vibration mountings; in accordance with manufacturers instructions and Engineers specifications                                                                                      | 1           | item |      |           |
| E                                                                                                                                                                                                                                                                                                                                                               | Temperature sensors; to be fixed within pool hall                                                                                                                                         | 1           | item |      |           |
| F                                                                                                                                                                                                                                                                                                                                                               | Humidity sensors; to be fixed within pool hall                                                                                                                                            | 1           | item |      |           |
| <u>DISTRIBUTION</u>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                           |             |      |      |           |
| <u>Supply &amp; install, test and commission distribution pipework; including bends, tees; fittings, joints, supports and connections to existing pipework as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001</u>                                                                                  |                                                                                                                                                                                           |             |      |      |           |
| <u>Pipework</u>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                           |             |      |      |           |
| G                                                                                                                                                                                                                                                                                                                                                               | 32mm diameter; LTHW pipework in connection with coil in AHU- 02                                                                                                                           | 1           | item |      |           |
| H                                                                                                                                                                                                                                                                                                                                                               | 65mm diameter; LTHW pipework in connection with coil in AHU- 01                                                                                                                           | 1           | item |      |           |
| <u>Supply &amp; install, test &amp; commission of distribution ductwork including bends, transition pieces, plenum boxes, reducers, duct access hatches and other fittings; joints, supports, finishes and connections to existing ductwork as required; all in accordance with manufacturers instructions and Engineers specification and drawing M- 57001</u> |                                                                                                                                                                                           |             |      |      |           |
| <u>Ductwork</u>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                           |             |      |      |           |
| I                                                                                                                                                                                                                                                                                                                                                               | 350 x 350mm                                                                                                                                                                               | 1           | item |      |           |
| J                                                                                                                                                                                                                                                                                                                                                               | 650 x 300mm                                                                                                                                                                               | 1           | item |      |           |
| K                                                                                                                                                                                                                                                                                                                                                               | 650 x 500mm                                                                                                                                                                               | 1           | item |      |           |
| L                                                                                                                                                                                                                                                                                                                                                               | 900 x 900mm                                                                                                                                                                               | 1           | item |      |           |
| M                                                                                                                                                                                                                                                                                                                                                               | 1200 x1200mm                                                                                                                                                                              | 1           | item |      |           |
| N                                                                                                                                                                                                                                                                                                                                                               | 2200 x 750mm                                                                                                                                                                              | 1           | item |      |           |
| O                                                                                                                                                                                                                                                                                                                                                               | ^^^^extra over ductwork for aligning new ductwork to existing ductwork and louvres including all necessary accessories                                                                    | 1           | item |      |           |
| <u>INSULATION</u>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                           |             |      |      |           |

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| Description                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (58) BWIC MECHANICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | (58) BUILDERS WORKS IN CONNECTION WITH MECHANICAL INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                  | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                              | 1        | Note |           |
| B                                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| C                                  | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| D                                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                    | <u>BUILDERS WORKS IN CONNECTION WITH MECHANICAL INSTALLATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>ATTENDANCES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                    | <u>Provide or the following general and specialist attendance:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| E                                  | Provide for unloading, hoisting / crange and distribution of materials, plant or equipment too designated final positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
| F                                  | Provide for weatherproof covered storage accomodation /workshop facility for materials, plant, equipment and tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| G                                  | Provide for temporary power and power for commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |           |
| H                                  | Provide for specialist scaffolding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| I                                  | Provide for temporary lighting and water supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| J                                  | Provide for clearing away and disposal of rubbish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>Provide for unloading, hoisting, distribution of the following plant and equipment; include for suitable size crane</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| K                                  | Gas boiler skid; weight 96kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4        | nr   |           |
| L                                  | Buffer tank vessel; 1000L capacity; size 1100mm diameter x 1985mm high; weight 1215kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | nr   |           |
| M                                  | Heat Pumps; weight 275kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5        | nr   |           |
| N                                  | Calorifier; 985L capacity; size 1060mm diameter x 2135mm high; weight 520kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | nr   |           |
| O                                  | Air Handling Unit; weight 2100kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
| P                                  | Air Handling Unit; weight 450kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | nr   |           |
| Q                                  | Water to Water heat pump; weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | nr   |           |
| R                                  | Pump; weight 42kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| S                                  | Pump; weight 35kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| T                                  | Pump; weight 36kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| U                                  | Pump; weight 52kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |
| V                                  | Pump; weight 21kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | nr   |           |

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| Description                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                         | Quantity |      | Rate | Total (Γ)   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| (58) BWIC MECHANICAL INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |          |      |      | (Continued) |
| A                                                                                                                                                                                                                                                                                                                                                                                      | Pump; weight 15kg                                                                                       | 1        | nr   |      |             |
| B                                                                                                                                                                                                                                                                                                                                                                                      | Pump; weight 23kg                                                                                       | 1        | nr   |      |             |
| C                                                                                                                                                                                                                                                                                                                                                                                      | Heat pump control panel                                                                                 | 1        | nr   |      |             |
| D                                                                                                                                                                                                                                                                                                                                                                                      | Ducts                                                                                                   | 1        | item |      |             |
| <u>SUNDRIES AND BUILDERS WORK</u>                                                                                                                                                                                                                                                                                                                                                      |                                                                                                         |          |      |      |             |
| <u>Sundries</u>                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                         |          |      |      |             |
| E                                                                                                                                                                                                                                                                                                                                                                                      | marking the positions of holes , mortices, chases                                                       | 1        | item |      |             |
| <u>Chases</u>                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |          |      |      |             |
| F                                                                                                                                                                                                                                                                                                                                                                                      | chases for concealed conduit/pipe; include for making good upon completion                              | 1        | item |      |             |
| <u>Forming opes for pipework; in existing roofs; include for coring/ cutting out hole in roof; include for all necessary steel/timer support to opes; include for all necessary alterations to roof including cutting back roof finishes and fully sealing and weathering ducting passing through the roof; include for all necessary firestopping of service penetrations to roof</u> |                                                                                                         |          |      |      |             |
| <u>Forming opes</u>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |          |      |      |             |
| G                                                                                                                                                                                                                                                                                                                                                                                      | ope in walls to facilitate the installation of pipework from Heat pumps to buffer vessel; 65mm diameter | 5        | nr   |      |             |
| H                                                                                                                                                                                                                                                                                                                                                                                      | ^^^^extra over for fully weathering and making good around penetrations                                 | 5        | nr   |      |             |
| I                                                                                                                                                                                                                                                                                                                                                                                      | opes in roof for boiler flue pipes; approx 230mm diameter                                               | 1        | nr   |      |             |
| J                                                                                                                                                                                                                                                                                                                                                                                      | ^^^^extra over for fully weathering and making good around penetrations                                 | 1        | nr   |      |             |
| <u>Fire sleeves</u>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |          |      |      |             |
| K                                                                                                                                                                                                                                                                                                                                                                                      | Supply and install; fire sleeves for pipework passing through walls, roofs and the like where required  | 1        | item |      |             |
| <u>CONCRETE WORK</u>                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                         |          |      |      |             |
| <u>IN SITU CONCRETE</u>                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         |          |      |      |             |
| <u>In situ concrete; Grade C40/50; include for all excavation, backfilling, reinforcement and formwork; all in accordance with Architects specification</u>                                                                                                                                                                                                                            |                                                                                                         |          |      |      |             |
| <u>Concrete plinths for Heat pumps</u>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                         |          |      |      |             |
| L                                                                                                                                                                                                                                                                                                                                                                                      | 200mm thick; approx size 2000 x 2000mm; with brushed finish                                             | 5        | nr   |      |             |
| PLANT SUPPORT SYSTEM, FOR MECHANICAL PLANT AND EQUIPMENT                                                                                                                                                                                                                                                                                                                               |                                                                                                         |          |      |      |             |
| <u>PLANT SUPPORT SYSTEM</u>                                                                                                                                                                                                                                                                                                                                                            |                                                                                                         |          |      |      |             |
| <u>Design supply and install; Big Foot or equivalent; heavy duty support system for mechanical plant and equipment; include for support frames, legs, cross bars, and anti vibration mats and the like</u>                                                                                                                                                                             |                                                                                                         |          |      |      |             |
| <u>Support System for mechanical equipment</u>                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |          |      |      |             |
| M                                                                                                                                                                                                                                                                                                                                                                                      | Heat pumps; weight 275kg                                                                                | 5        | nr   |      |             |
| N                                                                                                                                                                                                                                                                                                                                                                                      | AHU; weight 2100kg                                                                                      | 1        | nr   |      |             |
| O                                                                                                                                                                                                                                                                                                                                                                                      | AHU; weight 450kg                                                                                       | 1        | nr   |      |             |
| P                                                                                                                                                                                                                                                                                                                                                                                      | Ducts                                                                                                   | 1        | item |      |             |
| ENCLOSURES FOR MECHANICAL PLAND AND EQUIPMENT                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |          |      |      |             |
| <u>ENCLOSURES</u>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                         |          |      |      |             |

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| Description                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| <b>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                                                     | (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
|                                                     | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                                                   | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba electrical drawings 10002-IRB-XX-XX-G-E-60001, 10002-IRB-XX-XX-G-E-60002, 10002-IRB-XX-B1-D-E-62002, 10002-IRB-XX-GF-D-E-62002, 10002-IRB-XX-01-D-E-62002, 10002-IRB-XX-RF-D-E-62003, 10002-IRB-XX-01-D-E-63001                                                                                                                                                                                                                          | 1        | note |           |
| B                                                   | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                                                   | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                                                   | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                                                   | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                                                   | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                                                   | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                                                   | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                                                   | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                                                   | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                                                   | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                                                   | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                                                   | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                                                   | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                                                   | All elements of the electrical supply and mains distribution shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
|                                                     | <u>WORKS TO EXISTING DISTRIBUTION BOARDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |           |
| P                                                   | Allow for works associated with connecting new mechanical plant to the existing DB including all necessary wiring, switches and the like; all works in accordance with Engineers drawings and specifications                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |           |

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| Description                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (62) GENERAL POWER SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                             | (62) GENERAL POWER SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
|                             | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                           | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba electrical drawings 10002-IRB-XX-XX-G-E-60001, 10002-IRB-XX-XX-G-E-60002, 10002-IRB-XX-B1-D-E-62002, 10002-IRB-XX-GF-D-E-62002, 10002-IRB-XX-01-D-E-62002, 10002-IRB-XX-RF-D-E-62003, 10002-IRB-XX-01-D-E-63001                                                                                                                                                                                                                          | 1        | note |           |
| B                           | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                           | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                           | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                           | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                           | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                           | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                           | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                           | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                           | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                           | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                           | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                           | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                           | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                           | All elements of the electrical supply and mains distribution shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
|                             | <u>STRIP OUT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                             | <u>EXISTING SERVICES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |

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| Description                 |                                                                                                                                                                                                                                   | Quantity | Rate | Total (€)   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (62) GENERAL POWER SERVICES |                                                                                                                                                                                                                                   |          |      | (Continued) |
| A                           | <u>Isolate, disconnect and remove existing electrical installations; include for disposal offsite as directed by the Client/ ER ; all in accordance with Engineers drawing D- E- 62002</u>                                        |          |      |             |
|                             | Existing power installations                                                                                                                                                                                                      | 1        | item |             |
|                             | POWER INSTALLATION                                                                                                                                                                                                                |          |      |             |
|                             | <u>FITTINGS &amp; ACCESSORIES</u>                                                                                                                                                                                                 |          |      |             |
| B                           | <u>Supply and install; fittings and accessories; all in accordance with Engineers specification and drawings</u>                                                                                                                  |          |      |             |
|                             | <u>Switches</u>                                                                                                                                                                                                                   |          |      |             |
|                             | three phase isolator switch; to AHUs                                                                                                                                                                                              | 2        | nr   |             |
|                             | <u>CABLING</u>                                                                                                                                                                                                                    |          |      |             |
| C                           | <u>Supply and install; cabling/circuits; including tie- ins, connections, terminations, supports, earthing, bonding, insulation, protection and the like; all in accordance with Engineers specification and drawing E- 62002</u> |          |      |             |
|                             | <u>Cabling</u>                                                                                                                                                                                                                    |          |      |             |
|                             | All cabling associated with power installations                                                                                                                                                                                   | 1        | item |             |
|                             | Allow for cable extensions for devices mounted on walls after installation of EWI (e.m)                                                                                                                                           | 1        | item |             |
| D                           | <u>FINAL CIRCUIT (Connection and terminations)</u>                                                                                                                                                                                |          |      |             |
|                             | <u>Final circuits to power installations with cable size in accordance with Introba specification</u>                                                                                                                             |          |      |             |
|                             | <u>Switches</u>                                                                                                                                                                                                                   |          |      |             |
|                             | three phase isolator switch                                                                                                                                                                                                       | 2        | nr   |             |
| E                           | <u>GENERAL</u>                                                                                                                                                                                                                    |          |      |             |
|                             | Testing and commissioning to general power installations; in accordance with Engineers specification                                                                                                                              | 1        | item |             |
|                             | Earthing and bonding to general pwer services                                                                                                                                                                                     | 1        | item |             |
|                             | Operating and maintainance manuals                                                                                                                                                                                                | 1        | item |             |
| I                           | As built drawings                                                                                                                                                                                                                 | 1        | item |             |
|                             | Identification plates, labels and the like                                                                                                                                                                                        | 1        | item |             |
| (62) GENERAL POWER SERVICES |                                                                                                                                                                                                                                   |          |      |             |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                        | (63) LIGHTING SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                        | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                      | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba electrical drawings 10002-IRB-XX-XX-G-E-60001, 10002-IRB-XX-XX-G-E-60002, 10002-IRB-XX-B1-D-E-62002, 10002-IRB-XX-GF-D-E-62002, 10002-IRB-XX-01-D-E-62002, 10002-IRB-XX-RF-D-E-62003, 10002-IRB-XX-01-D-E-63001                                                                                                                                                                                                                          | 1        | note |           |
| B                      | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                      | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                      | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                      | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                      | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                      | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                      | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                      | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                      | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                      | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                      | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                      | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                      | There shall be no more than ten luminaires per circuit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| O                      | Toilets circuits to be RCBO protected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| P                      | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| Q                      | All elements of the lighting and emergency lighting installation shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
|                        | <u>ALTERATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |

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Pricing Document

| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quantity |      | Rate | Total (€)   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      | (Continued) |
|                        | <u>ALTERATIONS TO EXISTING WORKS</u><br><u>Carefully isolate and remove all existing electrical fittings in locations where ceilings are to be removed (removal of ceilings e.m); fittings including but not limited to lighting, fire alarm, security, communication, cable trays and cables; set aside fittings; include for reinstallation of light fittings upon completion of works to the ceiling (works to ceiling e.m); make good all adjacent works upon completion; Contractor to take note of mountings and aiming angles prior to the removal of luminaires; all in accordance with Engineers drawing E-63001</u> |          |      |      |             |
| A                      | Electrical fittings and installations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | item |      |             |
|                        | <u>GENERAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |      |             |
| B                      | Testing and commissioning to general lighting installations; in accordance with Engineers specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | item |      |             |
| C                      | Earthing and bonding to general power services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |             |
| D                      | Operating and maintenance manuals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |      |             |
| E                      | As built drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |      |             |
| F                      | Identification plates, labels and the like                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | item |      |             |
| (63) LIGHTING SERVICES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |      |             |

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document - Addendum

| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (- -) PV INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                        | (- -) PHOTOVOLTAIC INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| A                      | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba electrical drawings 10002-IRB-XX-XX-G-E-60001, 10002-IRB-XX-XX-G-E-60002, 10002-IRB-XX-B1-D-E-62002, 10002-IRB-XX-GF-D-E-62002, 10002-IRB-XX-01-D-E-62002, 10002-IRB-XX-RF-D-E-62003, 10002-IRB-XX-01-D-E-63001                                                                                                                                                                                                                          | 1        | note |           |
| B                      | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                      | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                      | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                      | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                      | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                      | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                      | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                      | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                      | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                      | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                      | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                      | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                      | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                      | All elements of the electrical supply and mains distribution shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
|                        | PHOTOVOLTAIC INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                        | <u>PLANT AND EQUIPMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |
|                        | <u>Supply and install; Contractor to submit proposal for PV array system; each PV panel to be 565W - 585W; all in accordance with Engineers specification and drawing</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |

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| Description            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Rate | Total (€) |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (68) MECHANICAL WIRING |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |
|                        | (68) MECHANICAL WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
|                        | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                      | The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Introba electrical drawings 10002-IRB-XX-XX-G-E-60001, 10002-IRB-XX-XX-G-E-60002, 10002-IRB-XX-B1-D-E-62002, 10002-IRB-XX-GF-D-E-62002, 10002-IRB-XX-01-D-E-62002, 10002-IRB-XX-RF-D-E-62003, 10002-IRB-XX-01-D-E-63001                                                                                                                                                                                                                          | 1        | note |           |
| B                      | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | note |           |
| C                      | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period. | 1        | note |           |
| D                      | This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves                                                                                                                                                                              | 1        | note |           |
| E                      | This is a performance drawing only which should be used for guidance and pricing only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | note |           |
| F                      | Construction/ working drawings are the sole responsibility of the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | note |           |
| G                      | These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | note |           |
| H                      | Do not scale. This drawing is representative only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | note |           |
| I                      | Electrical services to be co-ordinated with all other trades, and to be agreed on site prior to installation. additional costs incurred by the contractor due to the lack of co-ordination, will not be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | note |           |
| J                      | The final coordinated location of all services and fittings must be agreed in advance with the architect and engineers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | note |           |
| K                      | The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | note |           |
| L                      | Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
| M                      | The contractor shall note that conduits are not shown. The contractor shall include for planning and co-ordination of the conduit installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | note |           |
| N                      | Fire cert drawings should be read in conjunction with this drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | note |           |
| O                      | All elements of the mechanical wiring installation shall be carried out in accordance with ET101:2008, IS3217:2013, contract specifications, schedules and manufacturers recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1        | note |           |
|                        | MECHANICAL WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |           |
|                        | <u>FITTINGS INCLUDING ACCESSORIES ASSOCIATED WITH MECHANICAL WIRING</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                        | <u>Supply and installation of fittings; all in accordance with Engineers specification</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |           |

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# Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo

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| Description            |                                                                                                                                                                                                      | Quantity | Rate | Total (Γ)   |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|
| (68) MECHANICAL WIRING |                                                                                                                                                                                                      |          |      | (Continued) |
| A                      | to mechanical installations<br><u>CABLING</u><br><u>Supply and install cabling; all in accordance with Engineers specification</u>                                                                   | 1        | item |             |
| B                      | Power wiring to Mechanical Installations                                                                                                                                                             | 1        | item |             |
| C                      | Control wiring to Mechanical Installation<br><u>FINAL CIRCUIT (including point terminations)</u><br><u>Supply and installation of final circuits; all in accordance with Engineers specification</u> | 1        | item |             |
| D                      | to mechanical installations<br><u>GENERAL</u>                                                                                                                                                        | 1        | item |             |
| E                      | Testing and commissioning to mechanical wiring; in accordance with Engineers specification                                                                                                           | 1        | item |             |
| F                      | Earthing and bonding associated with installation of mechanical works                                                                                                                                | 1        | item |             |
| G                      | Operating and maintainance manuals                                                                                                                                                                   | 1        | item |             |
| H                      | As built drawings                                                                                                                                                                                    | 1        | item |             |
| I                      | Identification plates, labels and the like                                                                                                                                                           | 1        | item |             |
| (68) MECHANICAL WIRING |                                                                                                                                                                                                      |          |      |             |

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| Description                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (69) BWIC ELECTRICAL INSTALLATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | (69) BUILDERS WORKS IN CONNECTION WITH ELECTRICAL INSTALLATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| A                                  | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications as listed on drawing registers                                                                                                                                                                                                                                                                                                                                                              | 1        | Note |           |
| B                                  | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification XXXXX and relevant drawings as listed on Engineers drawing register XXXXX                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| C                                  | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                                  | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                                  | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                    | <u>BUILDERS WORKS IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>ATTENDANCES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
|                                    | <u>Provide or the following general and specialist attendance:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| F                                  | Provide for unloading, hoisting / crange and distribution of materials, plant or equipment too designated final positions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | item |           |
| G                                  | Provide for weatherproof covered storage accomodation /workshop facility for materials, plant, equipment and tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| H                                  | Provide for temporary power and power for commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | item |           |
| I                                  | Provide for specialist scaffolding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |           |
| J                                  | Provide for temporary lighting and water supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
| K                                  | Provide for clearing away and disposal of rubbish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>Provide for unloading, hoisting, distribution of the following plant and equipment; include for suitable size crane</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |           |
| L                                  | PV panels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 116      | nr   |           |
|                                    | <u>SUNDRIES AND BUILDERS WORK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                    | <u>Sundries</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
| M                                  | marking the positions of holes , mortices, chases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |           |
|                                    | <u>Chases</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| N                                  | chases for concealed conduit; include for making good upon completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        | item |           |
|                                    | <u>Forming opes in new plasterboard ceilings; all in accordance with Engineers specification and drawings</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |           |
| O                                  | 200mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |           |
| P                                  | 300mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |           |

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| Description                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (72) WORK, REST, PLAY FITTINGS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                                | (72) WORK REST PLAY FITTINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |           |
| A                              | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                              | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                              | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                              | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                              | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                                | FITTINGS, FURNITURE AND EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                                | <u>SPORTS FITTINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |           |
|                                | <u>Supply and install; polyethylene closed cell foam insulated pool cover; 8mm thick; suitable for heated pools; with woven coated blue polyethylene top surface with reinforced hemming to outer edge; to achieve a u-value of 2.85W/m2; include for motorised reel system; include for all necessary accessories and fittings; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                              |          |      |           |
|                                | <u>Pool covers</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |           |
| F                              | pool cover; for adult pool approx size 25170mm long x 12170mm wide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | nr   |           |
| G                              | pool cover; for kids pool approx size 40m2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | nr   |           |
|                                | (72) WORK, REST, PLAY FITTINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |      |           |

To Collection

Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co. Mayo  
Pricing Document

| Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Total (€) |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|
| (77) SOFT FURNISHINGS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |           |
|                       | (77) SOFT FURNISHINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |
| A                     | The Contractor's attention is drawn to the following Architects tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Architects and Engineers drawings and specifications 0000 Series - Site Plan, 1000 Series - Floor Plans, 2000 Series - Elevations, 3000 Series - Sections, 4000 Series - Details, 6000 Series - Schedules, 24064- MA- 04- XX- HS- A- XXXX- D2- P01                                                                                                                                                                                               | 1        | Note |           |
| B                     | The Contractor's attention is drawn to the following Engineers tender information associated with this element of the works for the purposes of accurately pricing this section; In particular Engineers Specification and relevant drawings as listed on Engineers drawing register                                                                                                                                                                                                                                                                                                                                                             | 1        | Note |           |
| C                     | The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | Note |           |
| D                     | The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period | 1        | Note |           |
| E                     | This section of the BQ is measured in accordance with the Agreed Rules of Measurement 4 2009, Supplement 1 Issue 1, 2010 subject to the preambles amendments noted in the introduction to the pricing document                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | Note |           |
|                       | FITTINGS, EQUIPMENT AND FURNITURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |           |
|                       | <u>SOFT FURNISHINGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |           |
|                       | <u>Manually operated roller blinds; mounted within or above window reveals; manual operation via chain mechanism with smooth, self braking clutch mechanism; suitable for glare and solar control in office environments; include for all necessary accessories; all in accordance with manufacturers instructions and Architects specification</u>                                                                                                                                                                                                                                                                                              |          |      |           |
|                       | <u>Roller blinds to external windows</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |           |
| F                     | Blinds; for opening approx size 660 x 620mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2        | nr   |           |
| G                     | Blinds; for opening approx size 820 x 1820mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3        | nr   |           |
| H                     | Blinds; for opening approx size 880 x 850mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4        | nr   |           |
| I                     | Blinds; for opening approx size 660 x 1550mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        | nr   |           |
|                       | (77) SOFT FURNISHINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |           |

To Collection

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| Description                                  |           | Quantity | Rate | Total (€) |
|----------------------------------------------|-----------|----------|------|-----------|
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| Total Amount:                                |           |          |      |           |

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## Pricing Document

| Description             |  | Quantity | Rate | Total (€) |
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| Total Amount:           |  |          |      |           |

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