

TOBIN

Údarás na Gaeltachta

Refurbishments & Extension at Cape Clear Heritage Centre at Oileán Chléire, Co. Corcaigh

Volume C – Bill of Quantities



Údarás na
Gaeltachta

BUILT ON KNOWLEDGE

Document Control Sheet	
Document Reference	Volume C – Bill of Quantities
Client:	Údarás na Gaeltachta
Project Reference	12085-02

Rev	Description	Author	Date	Reviewer	Date	Approval	Date
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Preamble

1.0 General

This Preamble is to be read with all other Contract Documents, including the Conditions of Contract, Drawings, Specifications, and the Bills of Quantities. The Bills of Quantities are prepared in accordance with ARM4 and form the basis for valuing the Works. All items, whether or not specifically listed, are deemed to include all labour, materials, plant, and everything necessary for the proper completion of the Works.

2.0 Scope of Works

The Works comprise the Refurbishments & Extension at Cape Clear Heritage Centre at Oileán Chléire, Co. Corcaigh. The scope includes:

The Contractor shall carry out all works accordance with the drawings, specifications, and design documentation. The proposed works consist of the demolition works of the existing building, including internal modification, the construction of a toilet block extension, a glazed entrance lobby and a covered outdoor area, replacement of the existing wastewater treatment system and percolation area with a packaged Wastewater Treatment System, provision of wayfinding signage and all associated works.

3.0 Contract Administration

All correspondence and submissions shall be made through the channels specified in the Conditions of Contract.

BILL NR. 1 – General Items

	Description	Qty	Unit	Rate	Amount
	<u>BILL NR 1 - GENERAL ITEMS</u>				
	<u>PRELIMINARIES</u>				
	Notes:				
A	This Bill shall be read in conjunction with the Volume A Description of Works and Contract Requirements document. The requirements and obligations as listed in the Volume A document shall be deemed to be included under the relevant headings below.		Note		
	Contract				
	<u>Form, Type and Conditions of Contract</u>				
	Form of Contract				
B	The Articles of Agreement and Conditions of Contract shall be the 'Short Public Works Contract' Document Reference PW-CF6 v1.15 - 25 December 2025		Note		
	Schedule of clause headings				
C	Clause 1: The Contract		Note		
D	Clause 2: The Site, starting and completing the Works		Note		
E	Clause 3: The Works		Note		
F	Clause 4: Price and payment		Note		
G	Clause 5: Representations and communications		Note		
H	Clause 6: Contractor's Personnel		Note		
J	Clause 7: Pay and condition of employment of workers		Note		
K	Clause 8: Loss and damage to the Works		Note		
L	Clause 9: Indemnity for claims and damage		Note		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>Contract (Cont)</u>				
	<u>Form, Type and Conditions of</u>				
	<u>Contract (Cont)</u>				
	Schedule of clause headings (Cont)				
A	Clause 10: Insurance		Note		
B	Clause 11: Property		Note		
C	Clause 12: Termination		Note		
D	Clause 13: Ethics in Public Office		Note		
E	Clause 14: Project Supervisor for the Construction Stage		Note		
F	Clause 15: Law, jurisdiction and disputes		Note		
G	Clause 16: Covid-19 Mandatory Closure		Note		
H	Clause 17: Limit on Liability		Note		
J	Clause 18: Price Variation		Note		
	Form of Tender				
K	To be completed in full by the tenderer as part of his tender submission; Failure to complete will render the tender submission invalid.		Note		
	<u>Contractors Liability</u>				
L	Contractors Liability shall be as set out in Volume B of the Form of Tender and the Works Requirements		Note		
	<u>Requirement of Contractor to effect insurance as outlined in Tender Schedule Part 1 D</u>				
M	The insurance shall name the Contractor, the Employer and any other persons the Employer requires as insured	1	Item		
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1/2				To Collection €	

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>Contract (Cont)</u>				
	<u>Requirement of Contractor to effect insurance as outlined in Tender Schedule Part 1 D (Cont)</u>				
A	The Contract requires that the minimum limit of Public Liability Indemnity should be €6,500,000.00 in relation to all contracts built for the County Council in respect of any one accident.	1	Item		
B	The Contract requires that the minimum limit of Employers Liability Insurance should be €13,000,000.00	1	Item		
	<u>Local Authority Fees and Charges</u>				
C	The Contractor shall pay all costs in connection with obtaining any consents, complying with notices and shall pay all taxes, fees and charges in connection therewith, other than those that the Employer undertakes to pay for in the Works Requirements.	1	Item		
	<u>Obligations and restrictions imposed by the Employer</u>				
D	All obligations and restrictions imposed by the Employer are as set out in the Works Requirements	1	Item		
12085-02 - Cape Clear Heritage Centre Bill Nr 1 - General Items Volume C - Pricing Document		1/3	To Collection €		

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	1.0 Section 1 - Description of Works				
	<u>1.1 Documents</u>				
A	Volume A: Works Requirements, comprising a series of documents (Volume A-1 - Works Requirements, Volume A-2 - Specification & Volume A-3 - Drawings) , these include the description of works and contractual obligations, general specifications for materials, workmanship, and construction methods, as well as the relevant drawings. Additionally, mechanical and electrical specifications with accompanying drawings, and the M&E Builders Work Schedule form part of the documentation; as per 1.1 of the Project Particulars		Note		
B	Volume B: Tender & Schedule		Note		
C	Volume C: Pricing Document		Note		
D	Volume D: Non-Contract Documents : The non-contract documents provided for reference include relevant Background Information such as the Preliminary Construction Environmental Management Plan, Appropriate Assessment Screening Report, Natura Impact Statement, Site Characterisation Assessment Report & Preliminary Health and Safety Plan. It is the contractor's duty to ensure all works are compliant with current building regulations. The pricing schedule is not a contract document, but rather a tool to determine the final contract sum.		Note		
	<u>1.2 Summary of Scope of Works</u>				
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>1.0 Section 1 - Description of Works (Cont)</u>				
	<u>1.2 Summary of Scope of Works (Cont)</u>				
A	The proposed works consist of the demolition works of the existing building, including internal modification, the construction of a toilet block extension, a glazed entrance lobby and a covered outdoor area, replacement of the existing wastewater treatment system and percolation area with a packaged Wastewater Treatment System, provision of wayfinding signage and all associated works.		Note		
	<u>1.3 Project, parties and consultants</u>				
	<u>1.3a Name and nature of project</u>				
B	Refurbishments & Extension at Cape Clear Heritage Centre at Oileán Chléire, Co. Corcaigh		Note		
C	The works forming the subject matter of this contract involve the Refurbishments & Extension including internal modification. The works are to include all associated services.		Note		
	<u>1.3b Location of project</u>				
D	Cape Clear Heritage Centre at Oileán Chléire, Co. Corcaigh		Note		
	<u>1.3c General correspondence</u>				
	<i>Names and addresses of Employer and Consultants as outlined in Volume A of the Works Requirements</i>				
	<i>Employer</i>				
E	Údarás na Gaeltachta Páirc Ghno an Daingin Daingean Uí Chúis Co. Chiarraí		Note		
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Description	Qty	Unit	Rate	Amount
<u>PRELIMINARIES (Cont)</u>				
1.0 Section 1 - Description of Works (Cont)				
<u>1.3 Project, parties and consultants (Cont)</u>				
1.3c General correspondence (Cont)				
(Employer's Representative) (ER):				
A TOBIN Fairgreen House Fairgreen Road Galway Phone: 091 565 211		Note		
<i>Civil & Structural Engineer</i>				
B TOBIN Fairgreen House Fairgreen Road Galway Phone: 091 565 211		Note		
<i>PSDP</i>				
C TOBIN Fairgreen House Fairgreen Road Galway Phone: 091 565 211		Note		
<i>Quantity Surveyor</i>				
D TOBIN Fairgreen House Fairgreen Road Galway Phone: 091 565 211		Note		
<i>The Project Architect is:</i>				
E Vincent Hannon Architects Suite 4 Cloch Mhíle Dublin Road Galway, H91 V97E Phone: 091 483 934		Note		
12085-02 - Cape Clear Heritage Centre			To Collection €	
Bill Nr 1 - General Items	1/6			
Volume C - Pricing Document				

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>1.0 Section 1 - Description of Works (Cont)</u>				
	<u>1.3 Project, parties and consultants (Cont)</u>				
	1.3c General correspondence (Cont)				
	<i>The Project Mechanical & Electrical Engineer</i>				
A	CBS Consulting Engineering Deerpark Business Centre, 2A Claregalway Road Co. Galway, H91 H9T8 Phone: 087 738 8757		Note		
B					
C					
	<u>1.4 Other OPW approved sub contractors</u>				
D	The Main Contractor must use OPW-approved subcontractors for the works and is fully responsible for all M&E installation, builder's works, attendances, testing, and commissioning		Note		
E	The Main Contractor must make provision for all required attendances and carry out all associated builders works as needed by the approved sub-contractors to ensure the project at the Oranmore Garda Station is completed according to the tender specifications; as per 1.4 of works requirements		Note		
	<u>1.5 Drawings and other documents</u>				
	1.5 Drawings and other documents used for the preparation of this Pricing Document and issued to Tenderers				
F	These are listed in Volume A1 of the Works Requirements		Note		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>1.0 Section 1 - Description of Works (Cont)</u>				
	<u>1.6 PC Sums</u>				
A	Sub clause not used		Note		
	<u>1.7 Preliminaries</u>				
B	The Tenderer must make adequate allowance for all preliminary costs associated with the works. These costs include, but are not limited to, administration, supervision, liaison with the Engineer/PSDP, equipment hire, fencing, insurances, temporary lighting, safety, health and welfare, scaffolding, setting out, temporary stands, hoarding and guardrails, and all other necessary temporary services	1	Item		
C	An allowance should also be made for a Contract Manager to attend monthly site meetings throughout the duration of the project, as outlined in the Work requirements	1	Item		
	<u>1.8 Temporary Works Designer</u>				
D	The Contractor must appoint a competent Temporary Works Designer to design all temporary works, including any demolition, de-commissioning, or dismantling work. This designer will be responsible for the stability of structures throughout the construction process. The Contractor must also employ a qualified site engineer to liaise with the Temporary Works Designer and Project Supervisors at all stages. The Contractor is responsible for ensuring the attendance of all specialist and temporary works designers at site meetings; as outlined in 1.8 of the works requirements	1	Item		
12085-02 - Cape Clear Heritage Centre Bill Nr 1 - General Items Volume C - Pricing Document		1/8	To Collection €		

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	2.0 Section 2 - Constraints and Requirements				
	<u>2.1 Schedule of Quantities</u>				
A	A detailed Schedule of Quantities and Rates is required after the tender is submitted but before it's accepted. This schedule, based on ARM4, supports the tender sum but isn't part of the final contract. The Bill of Quantities/Schedule of Quantities is also not a contract document. The contract sum covers all work detailed in the drawings and specifications	1	Item		
B	The contractor must provide a schedule of rates to the client three weeks before the articles of agreement are signed. This schedule of rates serves as a copy of the fully priced and detailed estimate used for the contractor's tender. All pricing documents are to be used as a guide only and don't reflect the full scope of work, which is derived from the Volume A - Works Requirements, including all drawings.	1	Item		
	<u>2.2 Performance Bond</u>				
C	(Sub Clause not used)		Note		
	<u>2.3 Parent Company Guarantee</u>				
D	(Sub Clause not used)		Note		
	<u>2.4 Consents</u>				
E	(Sub Clause not used)		Note		
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Description	Qty	Unit	Rate	Amount
<u>PRELIMINARIES (Cont)</u>				
2.0 Section 2 - Constraints and Requirements (Cont)				
<u>2.5 Provision of Project Supervisor Construction Stage</u>				
A The Project Supervisor Construction Stage (PSCS) is to be appointed in compliance with S.I. 504 of 2006, Safety, Health and Welfare at Work (Construction) Regulations, 2013. The Employer retains the right to terminate the PSCS's appointment at any time without liability for costs or losses.	1	Item		
B The PSCS must follow the 2013 Regulations, maintain the Safety & Health Plan with input from the PSDP and designers, coordinate with all parties, and promptly notify the PSDP of any design-impacting changes.	1	Item		
C The PSCS is responsible for confirming that all site personnel have the necessary training, Safe Pass, and CSCS cards, and must maintain records of this documentation.	1	Item		
D The PSCS and Contractor must assist the PSDP, coordinate with all designers, appoint a qualified Temporary Works Designer, and ensure the PSCS gathers Safety File information from contractors.	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.5 Provision of Project Supervisor Construction Stage (Cont)</u>				
A	The Contractor shall in consideration of the acceptance of his/her tender and by way of Collateral Agreement to the Main Contract, provide the services of Project Supervisor Construction Process within the meaning of the Safety, Health and Welfare at Work (Construction) Regulations 2006/2013. The cost of the provision of this service shall be deemed to be included in the Contract Sum.	1	Item		
B	The PSCS must collect all required documents from designers and contractors, including the final Safety & Health Plan, drawings, specifications, manuals, certificates, and other PSDP-requested information, for inclusion in the Safety File.	1	Item		
C	Finally, the PSCS must coordinate all contractors' arrangements for carrying out the works to ensure the Safety, Health and Welfare of all individuals affected by the construction, including employees, visitors, and the general public. This responsibility extends to the overall safety coordination of the entire construction process	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.5 Provision of Project Supervisor Construction Stage (Cont)</u>				
A	As PSCS, the Main Contractor must notify the OPW or Resident Engineering Staff in writing of any safety-related contractual restrictions. The Engineer will then issue instructions. The Contractor must also grant the client a transferable, non-exclusive license to use all Safety File documentation for future works	1	Item		
B	The Main Contractor must comply with all safety, health, and welfare laws, including the 2005 Act, relevant regulations, IEE standards, ESB requirements, and Construction Regulations 2006 covering noise, vibration, heights, and asbestos.	1	Item		
C	All work must also comply with local authority bylaws and all current legislation and building regulations. A Preliminary Safety and Health Plan has been prepared, and all tenders must familiarize themselves with it and make any necessary amendments to their proposed program of work	1	Item		
D	OPW has been appointed as the Project Supervisor for the Design Process (PSDP) in accordance with the Safety, Health and Welfare at Work (Construction) Regulations, 2013 (S.I. 504 of 2006). This appointment signifies that the OPW is responsible for the overall coordination of health and safety during the design stage of the project.	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.5 Provision of Project Supervisor Construction Stage (Cont)</u>				
A	The Contractor must provide HSA-approved certificates, including the temporary works design certificate, as per the HSA 2013 Construction Regulations guidance	1	Item		
B	The Contractor's attention is drawn to the fact that the existing facility will remain occupied and accessible throughout the entire construction stage. The Contractor must account for this in their method statements and programme of work.	1	Item		
	<u>2.7 General Requirements concerning Insurance</u>				
C	(Sub Clause not used)		note		
	<u>2.8 Limitations on the authority of the Employers Representative</u>				
D	The authority of the ER to perform their functions and powers under the Contract is limited as specified in the Schedule	1	Item		
	<u>2.9 Programme</u>				
E	The Contractor must submit a detailed programme showing the sequence, timing, and monitoring of all activities, including procurement, installation, commissioning, and when input from the Employer or ER is needed to prevent delays	1	Item		
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1/13					
To Collection €					

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.9 Programme (Cont)</u>				
A	The programme must meet Works Requirements, allow the Employer 's Representative to monitor progress, include submission schedules, resources, methods, temporary works, critical path, key resources, floats, and explain any changes to logic or durations	1	Item		
B	The Contractor must ensure the programme allows time for the Employer to meet obligations and follow all constraints in Works Requirements Clause 2.9; non-compliance may lead to rejection and revision	1	Item		
	<u>2.10 Progress Reports</u>				
C	Progress reports shall be prepared by Contracts Manager and submitted at monthly site meetings.	1	Item		
	<u>2.15 Collateral Warranties</u>				
D	Sub-Clause not used		Note		
	<u>2.19 Setting Out The Works</u>				
E	The Contract Drawings give reference points, lines, and levels. The Contractor must establish permanent and temporary Bench Marks in stable locations before excavation begins	1	Item		
F	The Contractor must submit a schedule of all Bench Marks and Reference Points for verification, protect them during construction, and replace any damaged Bench Marks	1	Item		
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1/14					
To Collection €					

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.19 Setting Out The Works (Cont)</u>				
A	After setting out, the Contractor must notify the Employer's Representative for checking. Approval allows work to proceed, but the Contractor remains fully responsible for accurate construction and must maintain all necessary instruments and equipment.	1	Item		
	<u>2.25 Method Statements</u>				
B	The Contractor must promptly submit method statements to the OPW detailing construction methods and risk management for works, including services, demolition, drainage, concrete, and internal M&E, partitions, and finishes, with updates as required by the ER		Item		
C	During construction, the Contractor must provide any additional information requested by the Engineer to document and review the construction process		Item		
	<u>2.26 Lands, Rights of Way and Wayleaves</u>				
D	Sub-clause not used		note		
	<u>2.27 Site Fencing</u>				
E	The contractor must secure the proposed site boundary for the entire duration of the works using temporary fencing, such as Harris fencing or another approved type, to ensure the area is safe.	1	Item		
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1/15					
To Collection €					

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.28 Order and Methods of Implementation</u>				
A	There should be no interference with existing water supplies, drainage systems, and other utilities. These services must be maintained at all times	1	Item		
B	The contractor is responsible for obtaining all necessary licences or permits under Planning and other Statutory Regulations, including those related to the off-site disposal of materials (both temporary and permanent) as per the current Waste Management Acts and Regulations	1	Item		
	<u>2.29 Requirements for Noise Control and Cleanliness of Site</u>				
C	The ER will not allow the use of noisy equipment such as pile driving plant, rock breakers, tunnelling equipment, compressors, or drills at night, specifically between 6 pm and 8 am. If pile sheeting is required, approved vibration methods must be used. The contractor must also comply with BS 5228, Noise Control on Construction and Open Sites.	1	Item		
D	No site vehicles may use public roads. The Contractor must prevent and promptly clear mud or debris from roads and footpaths and ensure third-party privacy	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.30 Testing</u>				
A	Upon completion of the works and prior to final valuation, the contractor shall carry out CCTV surveys of all foul and storm sewers with a diameter of 100mm or greater, air tightness testing in accordance with Part L TGD 2017, and M&E testing as outlined in the M&E documents as outlined in 2.30 of the Works requirements	1	Item		
	<u>2.31 As constructed drawings</u>				
B	The contractor must provide the Employer's Representative with 2 hard copies and 1 soft copy of fully accurate as-constructed drawings, showing all actual construction details, before final valuation. These must be verified by both parties' Senior Engineering Representatives prior to submission, as per clause 2.31 of the works requirements	1	Item		
	<u>2.32 Existing Services</u>				
C	Contractors must account for all existing above- and below-ground services before contract signing. No variations for undocumented services will be allowed unless pre-agreed with the Employer's Representative. Compliance with the ESB Overhead Lines Code and HSA Underground Services Code is required	1	Item		
D	The contractor must conduct a CAT survey to locate buried or hidden services before excavation and liaise with utility providers for any required service diversions or new connections.	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.33 BCAR Requirements</u>				
A	All work must comply with BCAR legislation, specifically S.I. no. 9 of 2014 and S.I. No. 105 of 2014. The contractor is required to provide all necessary certificates both before work begins (to lodge a commencement notice with the local authority) and after the works are completed	1	Item		
	<u>2.34 Site Visit</u>				
B	A site visit can be arranged by contacting OPW. It is strongly advised that contractors organize a visit to ensure they fully understand the scope of the works. Contractors are also advised that their temporary works designer will have a significant role in the project and should attend the site visit as well, as per 2.34 of Work Requirements	1	Item		
	<u>2.35 Condition Survey (Public Road/ Path Only)</u>				
C	The contractor is required to conduct a condition survey of existing public roads, parking, and footpaths. This survey must be carried out prior to any works beginning and submitted to the OPW before work commences	1	Item		
	<u>2.40 Hazardous Construction Waste</u>				
D	The European Waste Catalogue classifies bituminous mixtures containing coal tar as hazardous waste.	1	Item		
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				To Collection €	

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>2.0 Section 2 - Constraints and Requirements (Cont)</u>				
	<u>2.40 Hazardous Construction Waste (Cont)</u>				
A	Hazardous waste is governed by the 1998 Waste Management and Movement of Hazardous Waste Regulations, with local authorities overseeing waste originating in their area	1	Item		
B	Disposing of hazardous waste must be done at a licensed hazardous waste facility. To transfer hazardous material off-site, the contractor must obtain a waste collection permit and a consignment note (C1 Form) from the local authority	1	Item		
	<u>2.41 Damage to Works</u>				
C	The contractor is responsible for any damage to existing works or structures that happens during on-site construction. Any such damage must be repaired at the Main Contractor's own expense and to the satisfaction of the ER before the contract is completed	1	Item		
	<u>2.42 Safety File</u>				
D	The contractor is responsible for completing a safety file for the entire works. This file must contain all as-constructed details, certificates, data sheets, drawings, specifications, commissioning certificates, and test results.	1	Item		
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1/19					
To Collection €					

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	3.0 Section 3 - Site Requirements				
	<u>3.1 Headquarters and Portable Offices</u>				
A	The contractor must provide on-site cabins to meet the welfare needs of all personnel, including both their own employees and those of any sub-contractors.	1	Item		
	<u>3.2 Office Equipment for Site Supervisory Staff</u>				
B	Sub-clause not used		note		
	<u>3.3 Computer System</u>				
C	Sub-clause not used		note		
	<u>3.4 Photographic Equipment</u>				
D	Sub-clause not used		note		
	<u>3.5 Telephones</u>				
E	Sub-clause not used		note		
	<u>3.6 Charges for Light and Heat</u>				
F	All charges for light and heat for temporary offices and similar facilities must be included in the contractor's costs	1	Item		
	<u>3.7 Instruments for use of Employer Representative Site Staff</u>				
G	Sub-clause not used		note		
	<u>3.8 Inventory of Furniture Equipment and Instrumentation</u>				
H	Sub-clause not used		note		
	<u>3.9 Attendance on employers representative site staff</u>				
J	Sub-clause not used		note		
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Description	Qty	Unit	Rate	Amount
<u>PRELIMINARIES (Cont)</u>				
<u>3.0 Section 3 - Site Requirements (Cont)</u>				
<u>3.10 Service to site</u>				
A The contractor is responsible for arranging any water, electricity, telephone, or other services they need for the construction of the works.	1	Item		
<u>3.11 Sanitary Accomodation for Work People</u>				
B The contractor must provide and maintain sanitary accommodation and other welfare facilities for all employees and visitors on the construction site, in line with Part 14 of the 2006 Regulations. The contractor is responsible for coordinating and monitoring these arrangements. Importantly, the contractor's personnel are not allowed to use the existing toilets on-site.	1	Item		
<u>3.12 Temporary Storage Sheds</u>				
C The contractor must provide and pay for their own temporary storage sheds, hard standings, and other holding areas needed for materials that are on-site and awaiting incorporation into the permanent work. The cost for this is considered to be included in the contractor's general overheads.	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>3.0 Section 3 - Site Requirements (Cont)</u>				
	<u>3.13 No Residential accomodation on site</u>				
A	No residential accommodation is permitted on site. This means caravans or other accommodation for residential use are not allowed, and the contractor's staff cannot live on any part of the site. Any request for accommodation for night watchmen or security personnel must be made in writing to the ER, who will provide a decision in writing.	1	Item		
	<u>3.14 Bill Posting</u>				
B	The contractor must not allow any bill posting, advertising, or defacing of name boards that were properly erected with permission. The contractor should try to keep all name boards free from damage and must immediately repair or replace any damaged or defaced boards upon notification.	1	Item		
	<u>3.15 Waste Management</u>				
C	The Main Contractor is required to prepare a detailed Waste Management Plan for the construction and demolition work. This plan must comply with the guidelines from the DoEHLG and NCDWC and must be submitted to the Employer's Representative for approval before any on-site work begins.	1	Item		
	<u>Asbestos management</u>				
D	A detailed asbestos survey is to be carried out which will identify all asbestos containing materials present in the building.	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>3.0 Section 3 - Site Requirements (Cont)</u>				
	<u>Asbestos management (Cont)</u>				
A	An asbestos risk assessment is to be carried out.	1	Item		
B	An asbestos management plan is to be developed which aims to record the presences of ACMs and the manner in which exposure to asbestos fibres is managed, both during normal occupation and when work which may disturb ACMs is planned.	1	Item		
	<u>4.0 Section 4 - Traffic Management</u>				
	<u>4.1 & 4.2 Traffic Safety and Management requirements</u>				
C	This section of the specification outlines the roles, responsibilities, and definitions for Traffic Management. The contractor must comply with the requirements of two documents:	1	Item		
D	Traffic Signs Manual - Chapter 8 - Temporary Traffic Measures and Signs for Roadworks" from the Department of Transport, October 2008	1	Item		
E	Guidance for the Control and Management of Traffic at Roadworks" from the Department of Transport, NRA, and Local Government Management Services Board, October 2007.	1	Item		
F	The contractor must use the main access for all vehicular traffic, as shown on the H&S Site set-up drawing. If required, the Main Contractor must also prepare and/or obtain all necessary road opening licenses or traffic management plans at their own expense	1	Item		
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Description	Qty	Unit	Rate	Amount
<u>PRELIMINARIES (Cont)</u>				
<u>4.0 Section 4 - Traffic Management (Cont)</u>				
<u>4.3 Signage and Layout of Roadworks Guidelines</u>				
A The contractor must follow the Department of Transport Traffic Signs Manual, Chapter 8 guidelines for signage, roadworks layout, and traffic management, in conjunction with the Design Process Traffic Management Plan.	1	Item		
B For works on or near public roads, the contractor is required to first observe the works from all possible traffic directions. Following this, they must plan the work sequence and proposed traffic layout, select the appropriate control devices, and establish a full list of sign and device requirements before starting any site work	1	Item		
<u>4.4 Phasing of the works</u>				
C To be agreed prior to signing of Contract	1	Item		
<u>4.5 Design of Operational Traffic Management Plan Layout</u>				
D Sub-clause not used		note		
<u>4.6 General Principles</u>				
E Traffic safety requires signs spaced by speed and road type, workers outside marked areas to wear reflective orange waistcoats, equipment maintained, vehicles not blocking signs, and unused signs covered or removed.	1	Item		
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	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES (Cont)</u>				
	<u>4.0 Section 4 - Traffic Management (Cont)</u>				
	<u>4.7 Lighting</u>				
A	When floodlighting is used in poor daylight, the lights must be positioned to avoid causing glare to drivers. Workers must also be protected from inadvertently stepping from a lit area into an unlit traffic lane.	1	Item		
B	In addition to lighting, signs, chevrons, and barriers must be reflectorized. Reflectors are crucial for marking the work area in case the lighting fails or is vandalized.	1	Item		
	<u>4.8 Hazard Warning Lights</u>				
C	All vehicles and self-propelled plant used in the construction works must be fitted with roof-mounted amber flashing lights while they are in the working areas.	1	Item		
	<u>4.9 Traffic Signage</u>				
D	All traffic signage used for roadworks, including warning, regulatory, and information signs, must comply with Clause 8.2.1 of the Department of Transport Traffic Signs Manual, Chapter 8.	1	Item		
	<u>4.12 Maintenance Requirements</u>				
E	The Contractor must maintain site cleanliness, prevent pollution, keep traffic routes clear, protect drains, control dust, and ensure vehicles carrying materials are sheeted, except for surface dressing operations	1	Item		

Description	Qty	Unit	Rate	Amount
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Description	Qty	Unit	Rate	Amount
COLLECTION Page No. 1/24 Page No. 1/25 BILL NR 1 - GENERAL ITEMS Carried to Summary				
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Description	Qty	Unit	Rate	Amount
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BILL NR. 2- Demolition Works

	Description	Qty	Unit	Rate	Amount
	<u>BILL NR 2 - DEMOLITION WORKS</u>				
	<u>DEMOLITION AND ALTERATIONS:</u>				
	<u>Demolition</u>				
	General Clearance				
A	General clearance of all existing materials, including the disposal of all waste materials arising, to a licensed waste facility.	1	item		
	Demolishing individual structures				
B	Remove existing waste water treatment plant and percolation area to be decommissioned & disposed of off site to a suitably licensed facility; all as per drawing and specification.	1	item		
C	Remove existing foul sewer to be decommissioned; all as per drawing and specification.	1	item		

Description	Qty	Unit	Rate	Amount
<u>DEMOLITION AND ALTERATIONS:</u>				
<u>Demolition (Cont)</u>				
<u>Demolishing individual structures (Cont)</u>				
<u>Oil Tank Removal / Decommissioning</u>				
A Existing Oil Tank Removal / Decommissioning as shown on Engineer's Drawing No. 1001; including drain, isolate and remove the existing plastic oil storage tank, associated pipework, fill and vent pipes. Where the oil-fired heating system is being permanently replaced with a heat pump system, fully decommission the oil installation including removal of all residual fuel by a licensed contractor, cleaning and purging or removal of the tank, disconnection and removal of oil lines and boiler connections, permanent sealing/removal of redundant fill points and vents, and disposal of all redundant equipment at a licensed facility, all in accordance with current environmental, health and safety requirements, with certification of decommissioning to be provided on completion; all to the Engineer's specification and details.	1	item		
<u>DEMOLITION AND ALTERATIONS:</u>				
<u>Alterations</u>				
Cavities to be closed at opes using proprietary insulated cavity closers (Xtratherm Close-R or similar approved) to minimise thermal bridging.				

	Description	Qty	Unit	Rate	Amount
	DEMOLITION AND ALTERATIONS:				
	<u>Alterations (Cont)</u>				
	Cutting				
	<u>Openings or recesses in existing structures</u>				
A	Form new door opening for D01 (1050 × 2100 mm) from rear (north-facing) elevation through existing wall. Carefully cut and remove existing masonry, finishes, insulation and cavity trays as required. Provide new structural support over opening, including proprietary or engineer-designed lintels to inner and outer leaves, installed in accordance with Structural Engineer's details and TGD Part A; all as per drawing and specification.	1	Item		
B	Increase opening in location of existing window (near to proposed hall area) to accommodate new door opening, D01 (1050 × 2100 mm). Make good to wall on existing side; all as per drawing and specification.	1	Item		
C	Carefully cut and remove existing works. Where the new wall meets the existing wall, cut in DPC into the existing wall, all in accordance with the approved drawings and specifications.	1	Item		
	Removing				
	<u>Fittings and fixtures</u>				
D	Carefully remove existing 900mm x 1300mm window, cills and all associated fittings from rear (north-facing) elevation, all in accordance with drawings and specification.	2	nr		

	Description	Qty	Unit	Rate	Amount
	DEMOLITION AND ALTERATIONS: Alterations (Cont) Removing (Cont) <u>Fittings and fixtures (Cont)</u>				
A	Carefully strip-out and removal of all equipment, all in accordance with Mechanical drawing no M001 and specification. All works shall be performed safely in accordance with the Safety and Welfare at Work (General Application) Regulations 2007. The Contractor shall ensure safe termination of all live or potentially live electrical ends, remove all redundant materials and waste from site, dispose of them at a licensed facility, and submit a method statement prior to commencing the strip-out works. Building up <u>Openings or recesses in existing structures</u> Building up existing openings to match existing blockwork to match existing cavity construction, including inner and outer leaves, insulation to cavity, wall ties, DPCs/cavity trays where required, and toothed bonding into existing masonry. External face to be finished to match existing façade ; internal face to be plastered and finished to match adjoining wall. All works to be carried out in accordance with current Irish Building Regulations and best practice; all as per drawing and specification.	1	Item		
B	window opening - 900mm x 1300mm from rear (north-facing) elevation	1	nr		

Description	Qty	Unit	Rate	Amount
DEMOLITION AND ALTERATIONS: <u>Alterations (Cont)</u> <u>Building up (Cont)</u> <u>Openings or recesses in existing structures (Cont)</u> Building up existing openings; make good disturbed cavity, including installation of new lintels over (to SE's design), new insulated cavity closers, cavity trays and stop ends over opening, with weep vents to outer leaf, in accordance with TGD Part C. Maintain continuity of thermal insulation and airtightness to meet TGD Part L, including local airtightness sealing and insulation returns to reveal. Provide new damp proof courses and weathering details as required to prevent moisture ingress. Make good internal and external wall finishes to match existing, including plaster, render, cladding or facing brickwork as applicable. All works to be carried out without compromising fire resistance of the wall (TGD Part B) and to accommodate door threshold details in compliance with Part M where required; all as per drawing and specification.				
A new door opening - D01 (1050X2100mm) from rear (north-facing) elevation	1	nr		

	Description	Qty	Unit	Rate	Amount
	DEMOLITION AND ALTERATIONS: Alterations (Cont) Building up (Cont) <u>Openings or recesses in existing structures (Cont)</u> Building up existing openings; make good disturbed cavity, including installation of new lintels over (to SE's design). Make good to wall on existing side and provide new insulated cavity closers, cavity trays and stop ends over opening, with 100 mm timber stud partitions comprising 75 mm timber studs, filled with Rockwool insulation (or similar), with 12.5 mm plasterboard to either side, taped and skimmed; all as per drawing and specification.				
A	new door opening - D01 (1050X2100mm) from near to proposed hall area Building up with providing a polysulphide seal between the new and existing walls, and provide a proprietary starter bar fixed to the face of the existing masonry to connect the new blockwork construction, with ties installed at every second course, all in accordance with the approved drawings and specifications.	1	nr		
B	new wall meets the existing walls	2	nr		
	DEMOLITION AND ALTERATIONS: Treatment / Repairs Repair & Replacement				
C	Repair & Replacement of existing rising main (to be upgraded); all as per drawing and specification.	1	nr		
D	Repair & Replacement of existing pumping station (to be upgraded); all as per drawing and specification.	1	nr		

Description	Qty	Unit	Rate	Amount
COLLECTION Page No. 2/1 Page No. 2/2 Page No. 2/3 Page No. 2/4 Page No. 2/5 Page No. 2/6 BILL NR 2 - DEMOLITION WORKS Carried to Summary				
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Description	Qty	Unit	Rate	Amount
SUMMARY BILL NR 2 - DEMOLITION WORKS TOTAL AMOUNT TO GENERAL SUMMARY	Page No. 2/7			
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BILL NR. 3 – Extension Works

	Description	Qty	Unit	Rate	Amount
	<u>BILL NR 3 - EXTENSION WORKS</u>				
	<u>(16) FOUNDATIONS AND RISING WALLS</u>				
	EXCAVATION AND EARTHWORKS:				
	Excavation				
	Note:All fills to be compacted in accordance with SR21 & NRA 600				
	<u>Excavation</u>				
	Excavation; foundation				
A	maximum depth not exceeding 2.00m deep; all in accordance with drawings and specifications.	13	m3		
	Extra over for				
B	breaking up existing rock	10	m3		
	<u>Disposal</u>				
C	water; surface	1	Item		
D	water; ground	1	Item		
E	excavated material; off site to a licensed facility ; all in accordance with drawings and specifications.	13	m3		
	<u>Filling</u>				
	Filling; to excavation				
F	'T1 Strut' material (SR21 Annex E) ; as per engineers specification levelling and compacting in layers not exceeding 225mm thick; all in accordance with drawings and specifications.	7	m3		
G	'T2 Perm' material (SR21 Annex E) ; as per engineers specification levelling and compacting in layers not exceeding 225mm thick; all in accordance with drawings and specifications.	4	m3		

	Description	Qty	Unit	Rate	Amount
	(16) FOUNDATIONS AND RISING WALLS				
	(Cont)				
	CONCRETE WORK: In-Situ Concrete				
	<u>Blinding</u>				
A	50mm C12/15 blinding concrete	2	m3		
	<u>Raft foundation</u>				
B	Raft - C28/35 reinforced concrete	3	m3		
	<u>Screed</u>				
C	75mm thick approved screed to comply with BS8204-1	2	m3		
	<u>Concrete ramp Slab</u>				
D	150mm C28/35 reinforced concrete	3	m3		
	CONCRETE WORK: Reinforcement				
	<u>Bar; straight or bent</u>				
E	12mm diameter	0.06	t		
F	10mm diameter	0.02	t		
	<u>Bar; links</u>				
G	10mm diameter	0.07	t		
	<u>Fabric</u>				
	A193 'flying end' mesh top; laps; all in strict accordance with the Engineers Specification.				
H	horizontal (raft slab)	29	m2		
	CONCRETE WORK: Formwork				
	<u>Sides of foundation</u>				
J	side of raft slab; height not exceeding 500mm	29	m		
	CONCRETE WORK: Sundries				

	Description	Qty	Unit	Rate	Amount
	(16) FOUNDATIONS AND RISING WALLS				
	(Cont)				
	CONCRETE WORK: Sundries (Cont)				
	<u>Surface finishes</u>				
A	power floating	29	m2		
	ROOFING, CLADDING AND				
	WATERPROOFING: Mastic Asphalt,				
	Waterproof and Gas Proof				
	Non-Metal Flexible Sheet				
	Coverings				
	<u>80 mm Kingspan Styrozone or</u>				
	<u>similar high-density insulation;</u>				
	<u>all in accordance with the</u>				
	<u>drawing and specification.</u>				
B	horizontal, exceeding 300mm	15	m2		
	<u>Necoflex RB 350 or Similar Radon</u>				
	<u>Barrier. Radon Barrier to be</u>				
	<u>fitted in accordance with</u>				
	<u>manufacturers details; all in</u>				
	<u>accordance with the drawing and</u>				
	<u>specification.</u>				
C	horizontal, exceeding 300mm	15	m2		
	<u>Visqueen DPM or similar, turned</u>				
	<u>up at walls; all in accordance</u>				
	<u>with the drawing and</u>				
	<u>specification.</u>				
D	horizontal, exceeding 300mm	15	m2		
	<u>MONOBOND RT tape and easi load</u>				
	<u>radon or approved similar dpc</u>				
	<u>taped and sealed over necoflex</u>				
	<u>rb350 radon barrier; all in</u>				
	<u>accordance with the drawing and</u>				
	<u>specification.</u>				
E	horizontal, exceeding 300mm	10	m2		

Description	Qty	Unit	Rate	Amount
<u>(21) EXTERNAL WALLS</u>				
GENERAL NOTES: The wall insulation installed below the wall DPC must be fit for purpose with regards to water absorption Detail applicable:- Ground-bearing floor; raft foundation; in-situ suspended ground floor slab; pre-cast suspended ground floor. Insulation above slab, with timber floor finish Keep cavities clean of mortar snots and other debris during construction Where blocks with a maximum Thermal conductivity of .20 W/mK are being used consideration should be given to avoid cracking in plaster due to drying of mortar. CONCRETE WORK: Pre-Cast Concrete <u>Lintels</u> Composite lintels; 100 wide x215mm deep prestressed RC lintel bearing 150mm minimum on blockwork walls as per Engineer's drawings; lintels require a minimum of 450mm of solid blockwork of solid blockwork above 65mm at all areas except eaves level; all to the Engineer's specification and details				
A 900mm long	3	nr		
B 1275mm long	1	nr		

	Description	Qty	Unit	Rate	Amount
	(21) EXTERNAL WALLS (Cont)				
	CONCRETE WORK: Pre-Cast Concrete (Cont)				
	<u>Cils</u>				
	Composite lintels; 100 wide x215mm deep prestressed RC lintel bearing 150mm minimum on blockwork walls as per Engineer's drawings; lintels require a minimum of 450mm of solid blockwork of solid blockwork above 65mm at all areas except eaves level; all to the Engineer's specification and details				
A	900mm long	3	nr		
	Composite lintels; 150mm thick concrete infill; all to the Engineer's specification and details				
B	900mm long	3	nr		
	BRICKWORK AND BLOCKWORK:				
	Brickwork/Blockwork				
	<u>Solid blockwork; standard blocks ; 440mm x 100mm x 215mm; concrete block outer leaf, & inner leaf; all in accordance with the drawing and specification.</u>				
C	100mm thick	62	m2		
	<u>Labours</u>				
D	on blockwork	1	item		

	Description	Qty	Unit	Rate	Amount
	(21) EXTERNAL WALLS (Cont)				
	BRICKWORK AND BLOCKWORK:				
	Ancillaries to				
	Brickwork/Blockwork				
	<u>Forming cavities</u>				
	150mm cavity with 110mm PIR insulation (0.022w/mk) and 40mm residual air cavity; all in accordance with the drawing and specification.				
A	between new walls	36	m2		
	<u>Closing cavities</u>				
	Kingspan Thermabate PVC-U insulated cavity closer (or similar approved) installed at window reveal/head/cills to manufacturers instructions; all in accordance with the drawing and specification.				
B	openings	13	m		
	<u>Damp proof courses</u>				
	DPC to be placed over the outer leaf of blockwork as well as inner leaf of blockwork ; all in accordance with the drawing and specification.				
C	width not exceeding 225mm	22	m		
	Stepped DPC ; all in accordance with the drawing and specification.				
D	width not exceeding 225mm	13	m		
	<u>Rigid insulation</u>				
E	50mm thick rigid; all to the Engineer's specification and details.	3	m		

	Description	Qty	Unit	Rate	Amount
	<u>(21) EXTERNAL WALLS (Cont)</u>				
	ROOFING, CLADDING AND WATERPROOFING: Mastic Asphalt, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings <u>wall air tightness tapes</u> Junction between window and jambs to be sealed using Siga Corvum tape (or similar approved) to maintain air tight envelope and limit heat loss as per TGD Part L 2021; all in accordance with the drawing and specification.				
A	horizontal, exceeding 300mm	5	m2		
	<u>(22) INTERNAL WALLS, PARTITIONS</u>				
	FLOOR WALL AND CEILING FINISHINGS : Stud Partitions <u>Timber Stud Partitions</u> Complete partition wall with studs, heads and sole pieces, bridging 38 mm x 75 mm. Studs at 350 mm to 400 mm centres. Sole piece to be well fixed to floor and, if parallel to joists, shall be carried on double joist. Provide 2 no. rows of nogging. Partition to be finished with 12.5 mm gypsum plasterboard, all erected, jointed and finished to manufacturer's instructions. The partitions are to be insulated with high density Rockwool sound insulation to achieve a decibel rating of not less than 35 Db.				
B	2475mm high	4	m		
	<i>Extra over for:</i>				
C	abutments to other finishes	4	nr		
	<i>forming openings</i>				
D	Door open	2	nr		
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	Description	Qty	Unit	Rate	Amount
	(27) ROOFS				
	METALWORK; Non - Structural				
	<u>Composite Items</u>				
	Handrail				
	<i>Complete with stainless steel balustrade with integrated handrail at a height of 1000mm above finished floor level (FFL), including fixing details comprising a 12mm thick base plate (150 x 150mm) secured with 4 No. M12 galvanised bolts; all in accordance with the contract drawings and project specifications.</i>				
A	1000mm high	9	m		
	WOODWORK: Structural and First Fixing				
	<u>First fixings</u>				
B	150x75mm treated timber wall plates	6	m		
C	38x225mm treated timber ridge boards	3	m		
D	44x150mm treated C16 timber rafters	54	m		
E	38x25mm treated timber batters	66	m		
F	50x38mm treated timber counter batters	54	m		
G	44x150mm treated timber ceiling joists	50	m		
H	100x44mm treated timber collar ties	27	m		

Description	Qty	Unit	Rate	Amount
(31) EXTERNAL WALL: COMPLETIONS <u>WITHIN OPENING</u> METALWORK: Non Structural <u>Composite Items; Windows refer to drawings and specification.</u> Selected high performance windows with argon filled double glazed units to be Munster Joinery "Future Proof" (or equivalent) in selected colour, as per client. Average U-value of external doors and windows to be as per TGD Part L Section 1 (2021). All low level glazing to be toughened safety glass provided in accordance with the requirements of BS 6262: Pt. 4. Windows from all bedrooms (including ground floor) shall be suitable for escape or rescue purposes, in accordance with TGD Part B Section 1.5.6 (2026). Pedestrian barriers to be provided to all windows and doors in accordance with TGD Part K (May 2014). A Window size - 675 x 900mm (W01,W02,W03)	3	nr		

	Description	Qty	Unit	Rate	Amount
	(31) EXTERNAL WALL: COMPLETIONS WITHIN OPENING (Cont) METALWORK: Non Structural (Cont) <u>Composite Items; External Doors</u> <u>refer to drawings and</u> <u>specification.</u> Complete with selected high-performance external doors with argon-filled double-glazed units, to Munster Joinery "Future Proof" or other approved equivalent, in colours as selected by the Client. The average thermal transmittance (U-value) of the external doors shall be in accordance with TGD Part L, Section 1 (2021). All glazing at low level shall be formed in toughened safety glass in compliance with BS 6262: Part 4. Provide pedestrian barriers to all doors in accordance with TGD Part K (May 2014).				
A	Door size - 1050 x 2100mm	1	nr		
	WOODWORK: Ironmongery, Accessories and Sundries <u>Door Ironmongery - All as per</u> <u>drawings, schedule and</u> <u>specification.</u>				
B	Oval hooded Door stop floor fix SNP	1	nr		
C	ECO TS 41 Slide Arm Door Closer / Silver RAL 9006 / Closing force size 1 - 4 / For door widths up to 1100 mm	1	nr		
D	Stainless Steel 75mm x 650mm Push Plate drilled and countersunk for face fixing	1	nr		
E	CBH 102 Two Ball bearing hinge EN 1935 Grade 13 to suit fire doors up to 120kg. Stainless Steel with radius cornes 101mm x 73mm.	3	nr		

	Description	Qty	Unit	Rate	Amount
	<u>(31) EXTERNAL WALL: COMPLETIONS</u>				
	<u>WITHIN OPENING (Cont)</u>				
	WOODWORK: Ironmongery, Accessories and Sundries (Cont)				
	<u>Door Ironmongery - All as per drawings, schedule and specification. (Cont)</u>				
A	Stainless Steel 600mm x 22mm Pull handle D shape bolt through	1	nr		
B	Kick Plate Stainless Steel 150mm x 900mm drilled and countersunk for face fixings	2	nr		
C	Intumescent Hinge pad to suit Radius Hinge	6	nr		
	<u>(32) INTERNAL WALL : COMPLETIONS</u>				
	<u>WITHIN OPENING</u>				
	METALWORK: Non Structural				
	<u>Composite Items; Internal Doors refer to drawings and specification.</u>				
	Complete with selected high performance doors with argon filled double glazed units to be Munster Joinery "Future Proof" (or equivalent) in selected colour, as per client. Average U-value of external doors to be as per TGD Part L Section 1 (2021). All low level glazing to be toughened safety glass provided in accordance with the requirements of BS 6262: Pt. 4. Pedestrian barriers to be provided to all doors in accordance with TGD Part K (May 2014).				
D	Door size - 1050 x 2100mm	1	nr		

	Description	Qty	Unit	Rate	Amount
	(32) INTERNAL WALL : COMPLETIONS WITHIN OPENING (Cont) METALWORK: Non Structural (Cont) <u>Composite Items; Internal Doors</u> <u>refer to drawings and</u> <u>specification. (Cont)</u> Complete with selected high-performance 30-minute fire-rated solid-core timber door, including viewing panel, all in accordance with the drawings, door schedule, and specifications.				
A	Door size - 1050 x 2100mm	1	nr		
	WOODWORK: Ironmongery, Accessories and Sundries <u>Door Ironmongery - All as per drawings, schedule and specification.</u>				
B	Oval hooded Door stop floor fix SNP	2	nr		
C	ECO TS 41 Slide Arm Door Closer / Silver RAL 9006 / Closing force size 1 - 4 / For door widths up to 1100 mm	2	nr		
D	Stainless Steel 75mm x 650mm Push Plate drilled and countersunk for face fixing	2	nr		
E	CBH 102 Two Ball bearing hinge EN 1935 Grade 13 to suit fire doors up to 120kg. Stainless Steel with radius cornes 101mm x 73mm.	6	nr		
F	Stainless Steel 600mm x 22mm Pull handle D shape bolt through	2	nr		
G	Male Sign Stainless Steel Face fixed 75MM	1	nr		
H	Kick Plate Stainless Steel 150mm x 900mm drilled and countersunk for face fixings	4	nr		

	Description	Qty	Unit	Rate	Amount
	<u>(32) INTERNAL WALL : COMPLETIONS</u>				
	<u>WITHIN OPENING (Cont)</u>				
	WOODWORK: Ironmongery, Accessories and Sundries (Cont)				
	<u>Door Ironmongery - All as per drawings, schedule and specification. (Cont)</u>				
A	Intumescent Hinge pad to suit Radius Hinge	12	nr		
B	Fire Door Keep Shut Sign Stainless steel 75mm with face fixing	2	nr		
	<u>(35 & 45) CEILING FINISHES</u>				
	FLOOR, WALL & CEILING FINISHES:				
	Suspended Ceilings				
	<u>Ceiling</u>				
	Ceiling - plaster board on Suspended ceiling frame; 2475mm finished ceiling height; all accordance with the drawings and specification.				
C	Depth of suspension 500mm-1000mm	11	m2		
	PAINTING & DECORATING: Painting				
	<u>Ceiling</u>				
	Finish with 1 prime coat & 2 finish coats Dulux or similar Matt Emulsion, all accordance with the drawings and specification.				
D	exceeding 300mm	11	m2		

	Description	Qty	Unit	Rate	Amount
	(37) ROOF COMPLETIONS				
	ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Covering and Decking				
	<u>Rainwater Gutter</u>				
	Gutters; 100mm diameter black Upvc gutters (match with the existing), fixed to fascia; all as per drawing and specification.				
A	not exceeding 300mm wide	6	m		
	Extra over on gutters on which they occur for;				
B	blank ends	4	nr		
C	rainwater downpipe outlets	4	nr		
	Facia and soffit profile; all as per drawing and specification.				
D	not exceeding 600mm	12	m		
	DRAINAGE: Disposal Above Ground				
	<u>Rainwater Disposal</u>				
	Pipes				
E	100mm diameter black Upvc downpipes (match with the existing); all as per Architect's drawing and specification.	6	m		
	Extra over for pipes:				
F	shoes	2	nr		

	Description	Qty	Unit	Rate	Amount
	<u>(41) EXTERNAL WALL FINISHES</u>				
	FLOOR, WALL AND CEILING FINISHINGS: Finishings				
	<u>Walls</u>				
	External plastering; apply 3 coats (scud, scratch & finish coats) of external render finish to new blockwork; all plaster beading, trimming and accessories to be included ; all to the Drawings and specification.				
A	not exceeding 300mm	36	m2		
	PAINTING AND DECORATING: Painting				
	<u>Walls</u>				
	Paint finish with 1 prime coat & 3 finish coats Dulux or similar.; All external walls to be painted with weather shield paint ; all to the Drawings and specification.				
B	exceeding 300mm; external wall	36	m2		
C	not exceeding 300mm	1	m2		
	<u>(42) INTERNAL WALL FINISHES</u>				
	FLOOR, WALL AND CEILING FINISHINGS: Finishings				
	<u>Walls Plaster</u>				
	Internal plastering; skimcoat plaster finish to new blockwork; all plaster beading, trimming and accessories to be included ; all to the Drawings and specification.				
D	exceeding 300mm	40	m2		
E	not exceeding 300mm	1	m2		

	Description	Qty	Unit	Rate	Amount
	(42) INTERNAL WALL FINISHES (Cont)				
	)				
	FLOOR, WALL AND CEILING FINISHINGS: Finishings (Cont)				
	<u>Walls Plaster (Cont)</u>				
	Internal plastering; skimcoat plaster finish to stud partition wall; all plaster beading, trimming and accessories to be included ; all to the Drawings and specification.				
A	exceeding 300mm	20	m2		
B	not exceeding 300mm	1	m2		
	<u>13mm scratch coat applied to inner face of blockwork to provide airtight seal to be taped at junctions and opes with Siga proprietary airtightness products (or similar approved); all in accordance with the drawing and specification.</u>				
C	horizontal, exceeding 300mm	5	m2		
	FLOOR, WALL AND CEILING FINISHES: Tiled				
	<u>Splashbacks - 200 x 100mm bevelled edge glazed ceramic tile</u>				
D	exceeding 300mm wide	1	m2		
	PAINTING AND DECORATING: Painting				
	<u>Walls Painting</u>				
	Paint finish with 1 prime coat & 2 finish coats Dulux or similar.; All external walls to be painted with weather shield paint ; all to the Drawings and specification.				
E	exceeding 300mm	59	m2		
F	not exceeding 300mm	1	m2		

	Description	Qty	Unit	Rate	Amount
	<u>(43) FLOOR FINISHES</u>				
	FLOOR, WALL AND CEILING FINISHINGS: Finishings				
	<u>Floors</u>				
	R11 600x600mm tiled flooring - bathroom tiles or similar anti-slip floor finish; all to the Drawings and specification.				
A	exceeding 300mm	8	m2		
	laminate 200mm thick timber flooring or timber effect vinyl plank; all to the Drawings and specification.				
B	exceeding 300mm	3	m2		
	<u>Skirtings</u>				
C	100mm high tile Skirting; all in accordance with drawing and specifications.	16	m		
D	150mm high MDF Skirting; all in accordance with drawing and specifications.	7	m		
	<u>(47) ROOF FINISHES</u>				
	ROOFING, CLADDING AND WATERPROOFING: Mastic Asphalt, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings				
	<u>Roofing insulation</u>				
	Insulated at ceiling level with 150mm mineral wool insulation (λ 0.044w/mk) tightly fitted between ceiling joists and an additional 150mm cross laid over; all as per drawing and specification.				
E	horizontal, exceeding 300mm	18	m2		

	Description	Qty	Unit	Rate	Amount
	<u>(47) ROOF FINISHES (Cont)</u>				
	ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Covering and Decking				
	<u>Covering</u>				
	Complete with Select profiled roof cladding panels on 19mm marineplywood deck on treated timber rafters (match with existing roof) ; all as per drawing and specification.				
A	horizontal, exceeding 300mm	18	m2		
	<u>Flashing</u>				
B	400-600mm flashing; ; all as per drawing and specification.	13	m		
	<u>(74) SANITARY, HYGIENE FITTINGS</u>				
	FITTINGS: Fittings, Equipment and Furniture				
	<u>Fittings</u>				
	Water Closets (WC)				
	<i>Complete of WC with toilet cistern full set ;Include all in accordance with drawings, schedule and specifications.</i>				
C	WC1	1	nr		
D	WC2	1	nr		
	Wash Hand Basin (WHB)				
	<i>Complete of WHB full set ;Include all in accordance with drawings, schedule and specifications.</i>				
E	WC1	1	nr		
F	WC2	1	nr		

	Description	Qty	Unit	Rate	Amount
	<u>(74) SANITARY, HYGIENE FITTINGS</u>				
	<u>(Cont)</u>				
	FITTINGS: Fittings, Equipment and Furniture (Cont)				
	<u>Fittings (Cont)</u>				
	Mirrors				
	<i>Complete of Mirror ;Include all in accordance with drawings, schedule and specifications.</i>				
A	Size; 400mm x 600mm	2	nr		
B	Size; 450mm x 1000mm	1	nr		
	<u>Rails or Protective Guards</u>				
	Horizontal Grab Rail				
C	Complete of Horizontal Grab Rail; Include all in accordance with drawings, schedule and specifications.	1	nr		
	Vertical Grab Rail				
D	Complete of Vertical Grab Rail; Include all in accordance with drawings, schedule and specifications.	3	nr		
	Drop Down Grab Rail				
E	Complete of Drop Down Grab Rail ; Include all in accordance with drawings, schedule and specifications.	1	nr		
	<u>Miscellaneous Fittings</u>				
	Hand Dryer				
F	Complete of Hand Dryer; Include all in accordance with drawings, schedule and specifications.	2	nr		
	Soap Dispenser				
G	Complete of Soap Dispenser; Include all in accordance with drawings, schedule and specifications.	2	nr		

	Description	Qty	Unit	Rate	Amount
	(74) SANITARY, HYGIENE FITTINGS				
	(Cont)				
	FITTINGS: Fittings, Equipment and Furniture (Cont)				
	<u>Miscellaneous Fittings (Cont)</u>				
	PT (Paper Towel Dispenser)				
A	Complete of PT; Include all in accordance with drawings, schedule and specifications.	2	nr		
	TP (Toilet Paper Holder)				
B	Complete of TP; Include all in accordance with drawings, schedule and specifications.	2	nr		
	Coat Hooks				
C	Complete of Coat Hook at 1050mm and 1400mm; Include all in accordance with drawings, schedule and specifications.	4	nr		
	Alarm pull cord				
D	Complete of Alarm pull cord ; Include all in accordance with drawings, schedule and specifications.	1	nr		
	Radiator				
E	Complete of Radiator; Include all in accordance with drawings, schedule and specifications.	1	nr		
	Door stops				
F	Complete of Door stops; Include all in accordance with drawings, schedule and specifications.	2	nr		
	Shower Shelf				
G	Complete of 200mm width, Shower Shelf; Include all in accordance with drawings, schedule and specifications.	2	nr		

Description	Qty	Unit	Rate	Amount
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BILL NR 3 - EXTENSION WORKS Carried to Summary				

Description	Qty	Unit	Rate	Amount
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BILL NR. 4 – Upgrade Podium Works

	Description	Qty	Unit	Rate	Amount
	<u>BILL NR 4 - UPGRADE PODIUM WORKS</u>				
	<u>(16) FOUNDATIONS AND RISING WALLS</u>				
	EXCAVATION AND EARTHWORKS:				
	Excavation				
	Note:All fills to be compacted in accordance with SR21 & NRA 600				
	<u>Excavation;</u>				
	Excavation; foundation				
A	maximum depth not exceeding 2.00m deep; all in accordance with drawings and specifications.	24	m3		
	Extra over for				
B	breaking up existing rock	20	m3		
	<u>Disposal</u>				
C	water; surface	1	Item		
D	water; ground	1	Item		
E	excavated material; off site to a licensed facility ; all in accordance with drawings and specifications.	24	m3		
	<u>Filling</u>				
	Filling; to excavation				
F	'T1 Strut' material (SR21 Annex E) ; as per engineers specification levelling and compacting in layers not exceeding 225mm thick; all in accordance with drawings and specifications.	2	m3		
G	'T2 Perm' material (SR21 Annex E) ; as per engineers specification levelling and compacting in layers not exceeding 225mm thick; all in accordance with drawings and specifications.	11	m3		

	Description	Qty	Unit	Rate	Amount
	<u>(16) FOUNDATIONS AND RISING WALLS</u>				
	<u>(Cont)</u>				
	CONCRETE WORK: In-Situ Concrete				
	<u>Blinding</u>				
A	50mm C12/15 blinding concrete	3	m3		
	<u>Pad foundation - SHS Column</u>				
B	500mm C28/35 reinforced concrete	3	m3		
	<u>Concrete Slab</u>				
C	150mm C28/35 reinforced concrete	7	m3		
	CONCRETE WORK: Reinforcement				
	<u>Fabric</u>				
	A393 mesh reinforcement to BS 4483; laps; all in strict accordance with the Engineers Specification.				
D	horizontal	52	m2		
	CONCRETE WORK: Formwork				
	<u>Sides of foundation</u>				
E	side of SHS column pocket; height not exceeding 500mm	20	m		
F	side of concrete slab; height not exceeding 500mm	25	m		
	CONCRETE WORK: Sundries				
	<u>Surface finishes</u>				
G	power floating	52	m2		

	Description	Qty	Unit	Rate	Amount
	<u>(16) FOUNDATIONS AND RISING WALLS</u> <u>(Cont)</u>				
	ROOFING, CLADDING AND WATERPROOFING: Mastic Asphalt, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings				
	<u>Necoflex RB 350 or Similar Radon Barrier. Radon Barrier to be fitted in accordance with manufacturers details; all in accordance with the drawing and specification.</u>				
A	horizontal, exceeding 300mm	21	m2		
	<u>(27) ROOFS</u>				
	STRUCTURAL: Steelwork				
	<u>Fabricated Members with steel S353 & hot dip galvanised; all in accordance with drawings and specifications.</u>				
	Beams; 0-25 kg/m				
B	200x100x5mm SHS beam B1	0.78	t		
	Beams; 25-50 kg/m				
C	254x176x31mm UB beam B2	0.44	t		
	Stanchions; 0-25 kg/m				
D	150x150x5mm SHS column	0.35	t		

Description	Qty	Unit	Rate	Amount
(27) ROOFS (Cont)				
METALWORK; Non - Structural				
<u>Composite Items</u>				
Handrail				
<i>Complete with stainless steel balustrade with integrated handrail at a height of 1000mm above finished floor level (FFL), including fixing details comprising a 12mm thick base plate (150 x 150mm) secured with 4 No. M12 galvanised bolts; all in accordance with the contract drawings and project specifications.</i>				
A 1000mm high	9	m		

Description	Qty	Unit	Rate	Amount
<u>(28) FRAMES</u>				
METALWORK; Non - Structural				
<u>Composite Items</u>				
Screens				
<i>Complete with a full-height glazed wind shelter to the west-facing end of the awning for wind protection, comprising double-glazed laminated and/or toughened safety glass within a durable aluminium or stainless-steel framing system, fully integrated with the awning structure. All glazing shall comply with critical location requirements in accordance with TGD Part K, with manifestation bands provided to doors and full-height screens at 850-1000 mm and 1400-1600 mm above Finished Floor Level (FFL). The complete glazed system shall achieve thermal performance in compliance with TGD Part L requirements for new works to existing buildings; all in accordance with the drawings and specification.</i>				
A 5000x3300mm	1	nr		

	Description	Qty	Unit	Rate	Amount
	<u>(28) FRAMES (Cont)</u> METALWORK; Non - Structural (Cont)) <u>Composite Items (Cont)</u> Frames <i>Complete with a proprietary aluminium-framed glazed porch system with 1420mm width double door to form the new entrance lobby, incorporating structural framing, insulated safety glazing, flashings, seals, and all necessary fixings. The system shall be fully integrated with the existing building fabric and foundations, providing a complete, weather-tight, and durable installation; all in accordance with the drawings and specification.</i>				
A	Glazed Entrance lobby; size 1959mm x 2552mm	1	nr		
	<u>(37) ROOF COMPLETIONS</u> ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Covering and Decking <u>Rainwater Gutter</u> Gutters; 100mm diameter black Upvc gutters (match with the existing), fixed to fascia; all as per drawing and specification.				
B	not exceeding 300mm wide	7	m		
	Extra over on gutters on which they occur for;				
C	blank ends	2	nr		
D	rainwater downpipe outlets	2	nr		
	Facia and soffit profile; all as per drawing and specification.				
E	not exceeding 600mm	7	m		

	Description	Qty	Unit	Rate	Amount
	<u>(37) ROOF COMPLETIONS (Cont)</u>				
	ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Covering and Decking (Cont)				
	<u>Rainwater Gutter (Cont)</u>				
	Flashing; Complete with Flashing at existing gable to weather the new glazed system. New flashing to be dressed into existing blockwork; all as per drawing and specification.				
A	not exceeding 600mm	7	m		
	DRAINAGE: Disposal Above Ground				
	<u>Rainwater Disposal</u>				
	Pipes				
B	100mm diameter black Upvc downpipes (match with the existing); all as per Architect's drawing and specification.	6	m		
	Extra over for pipes:				
C	shoes	2	nr		
	<u>(43) FLOOR FINISHES</u>				
	FLOOR, WALL AND CEILING FINISHINGS: Finishings				
	<u>Floors</u>				
	Selected Block Paving Laid to Falls (60mm Thick) on 50mm Blinding on Compacted Hardcore to Engineers Details; all to the Drawings and specification.				
D	exceeding 300mm	27	m2		
	Complete with lobby floor concrete finish ; all to the Drawings and specification.				
E	exceeding 300mm	10	m2		

Description	Qty	Unit	Rate	Amount
<u>(47) ROOF FINISHES</u>				
ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Covering and Decking				
<u>Covering</u>				
Complete with Roof covering to be UV-stabilised polycarbonate panels or laminated toughened safety glass in proprietary glazing bar system, complete with integrated gutter and rainwater discharge; all as per drawing and specification.				
A horizontal, exceeding 300mm	119	m2		

Description	Qty	Unit	Rate	Amount
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BILL NR 4 - UPGRADE PODIUM WORKS Carried to Summary				
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Description	Qty	Unit	Rate	Amount
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BILL NR. 5 – Existing Building Works

Description		Qty	Unit	Rate	Amount
<u>BILL NR 5 - EXISTING BUILDING WORKS</u>					
<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED)</u>					
51. DRAINAGE, SOIL & WASTE DISPOSAL					
<u>SOIL WASTE INSTALLATION (above ground)</u>					
Primary Equipment					
<i>Primary equipment to be installed in accordance to the drawings and specifications, including all associated supports as required</i>					
A	Hepvo dry trap	3	nr		
B	Roof cowl	1	nr		
Distribution System					
<i>Distribution System - All in accordance to the drawings and specifications, including all associated supports as required</i>					
Soil Water Installation					
<i>Pipework and Fittings (Including but not limited to, tees, bends, elbows, cleaning eyes, traps, vents, reducers, final connections to Sanitary Ware and all associated supports/bracketry as required;</i>					
C	25mm dia condensate drain pipework and fittings.	1	Item		
D	50mm dia waste pipework and fittings.	1	Item		
E	100mm dia waste pipework and fittings.	1	Item		
F	100mm dia SVP rise pipework (roof cowl) and fittings.	1	Item		
G	Connection to Equipment / Sanitary Ware	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
	<u>51. DRAINAGE, SOIL & WASTE DISPOSAL (Cont)</u>				
	<u>SOIL WASTE INSTALLATION (above ground) (Cont)</u>				
	Distribution System (Cont)				
	<i>Insulation - All in accordance to the drawings and specifications;</i>				
A	Insulation to Pipework & Fittings	1	Item		
	General				
B	Testing and commissioning	1	Item		
C	Operating & Maintenance Manuals	1	Item		
D	Working Drawings	1	Item		
E	Co-Ordination Drawings	1	Item		
F	Identification plates, labels and the like	1	Item		
G	As Built Drawings	1	Item		
H	Builders Works - as per D&W Builders Work Schedule	1	Item		
J	Fire Stopping & Associated Fire Protection Work	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
	52. SPACE HEATING & AIRCON				
	<u>HEATING & AIRCON INSTALLATION</u>				
	Primary Equipment				
	<i>Primary equipment to be installed in accordance to the drawings schedules, schematics & specifications, including all associated supports as required</i>				
A	Note: The Mechanical Contractor shall consider the separation distance between the indoor and outdoor heat pump units. If required, the system shall be recharged with refrigerant gas at no additional cost as part of the contract.		note		
B	Complete of Programmable wired remote control BRC1H51S touch button controller (C) with time and temperature control function; all in accordance with drawing and specifications.	4	nr		
C	Complete of Denotes proposed location for 2.4kW Daikin Bluevolution VRV outdoor power inverter heat pump unit (ODU-1) complete with matching indoor unit. Unit to use refrigerant gas R32. Unit to be mounted on flexi-feet support base with 100mm ground clearance, 300mm rear clearance and 1500mm front clearance. Final clearance requirements and position to be agreed on site with heat pump supplier and builder. Unit to be provided with anti-corrosion treatment at client's request. Approximate outdoor unit dimensions: 552 H x 840 W x 340 D (mm), ; all in accordance with drawing and specifications.	1	nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	52. SPACE HEATING & AIRCON (Cont)				
	HEATING & AIRCON INSTALLATION				
	(Cont)				
	Primary Equipment (Cont)				
A	Complete of Denotes proposed location for 5.0kW Daikin Bluevolution VRV outdoor power inverter heat pump unit (ODU-2) complete with matching indoor unit. Unit to use refrigerant gas R32. Unit to be mounted on flexi-feet support base with 100mm ground clearance, 300mm rear clearance and 1500mm front clearance. Final clearance requirements and position to be agreed on site with heat pump supplier and builder. Unit to be provided with anti-corrosion treatment at client's request. Approximate outdoor unit dimensions: 734 H x 954 W x 401 D (mm), ; all in accordance with drawing and specifications.	1	nr		
B	Complete of Denotes proposed location for 3.5kW Daikin Bluevolution VRV outdoor power inverter heat pump unit (ODU-3) complete with matching indoor unit. Unit to use refrigerant gas R32. Unit to be mounted on flexi-feet support base with 100mm ground clearance, 300mm rear clearance and 1500mm front clearance. Final clearance requirements and position to be agreed on site with heat pump supplier and builder. Unit to be provided with anti-corrosion treatment at client's request. Approximate outdoor unit dimensions: 552 H x 840 W x 340 D (mm), ; all in accordance with drawing and specifications.	1	nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	52. SPACE HEATING & AIRCON (Cont)				
	HEATING & AIRCON INSTALLATION				
	(Cont)				
	Primary Equipment (Cont)				
A	Complete of Denotes proposed location for 6.8kW Daikin Bluevolution VRV outdoor power inverter heat pump unit (ODU-4) complete with matching indoor unit. Unit to use refrigerant gas R32. Unit to be mounted on flexi-feet support base with 100mm ground clearance, 300mm rear clearance and 1500mm front clearance. Final clearance requirements and position to be agreed on site with heat pump supplier and builder. Unit to be provided with anti-corrosion treatment at client's request. Approximate outdoor unit dimensions: 990 H x 940 W x 320 D (mm), ;all in accordance with drawing and specifications.	1	nr		
	<i>Complete of Denotes proposed location for Daikin ducted fan coil unit type as per the schedule. Provide integrated programmable controls pack, circulating pump, floor mounting kit, bypass valve, and unvented kit complete with thermal/pressure relief valve and drain waste,;all in accordance with drawing and specifications.</i>				
B	FC 01 - FBA50A9 & 530CFM (size; 700x245x800mm)	1	nr		
C	FC 02 - FDXM25F9 & 308CFM (size ; 750x200x620mm)	1	nr		
D	FC 03 - FBA35A9 & 530CFM (size; 700x245x800mm)	1	nr		
E	FC 04 - FBA71A9 & 635CFM (size; 1000x245x800mm)	2	nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	52. SPACE HEATING & AIRCON (Cont)				
	HEATING & AIRCON INSTALLATION				
	(Cont)				
	Primary Equipment (Cont)				
A	Complete of Denotes DCM601B51 central intelligent touch controller (AC); all in accordance with drawing and specifications.	1	nr		
	Distribution System (For All Units)				
	<i>Distribution System - All in accordance to the drawings and specifications, including all associated supports as required.</i>				
	<i>Liquid pipe</i>				
B	1/4'' Liquid pipe in duct at ceiling void; all in accordance with drawing and specifications.	1	item		
C	3/8'' Liquid pipe in duct at ceiling void; all in accordance with drawing and specifications.	1	item		
	<i>Gas pipe</i>				
D	1/2'' Gas pipe in duct at ceiling void; all in accordance with drawing and specifications.	1	item		
E	3/8'' Gas pipe in duct at ceiling void; all in accordance with drawing and specifications.	1	item		
F	5/8'' Gas pipe in duct at ceiling void; all in accordance with drawing and specifications.	1	item		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	52. SPACE HEATING & AIRCON (Cont)				
	HEATING & AIRCON INSTALLATION				
	(Cont)				
	Distribution System (For All Units) (Cont)				
	<i>Insulation - All in accordance to the drawings and specifications.</i>				
A	Insulation to Pipework and Fittings.	1	item		
	General				
B	Testing and commissioning	1	Item		
C	Operating & Maintenance Manuals	1	Item		
D	Working Drawings	1	Item		
E	Co-Ordination Drawings	1	Item		
F	Identification plates, labels and the like	1	Item		
G	As Built Drawings	1	Item		
H	Builders Works - as per D&W Builders Work Schedule	1	Item		
J	Fire Stopping & Associated Fire Protection Work	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
	53. WATER DISTRIBUTION				
	<u>WATER INSTALLATION</u>				
	Primary Equipment				
	<i>Primary equipment to be installed in accordance to the drawings and specifications, including all associated supports as required</i>				
A	Cold water storage tank; 345 ltr one piece fully insulated EPS multi boost WRAS approved cold water storage tank (size ;1571x475x750mm), drip tray, close fitting lid, insulated jacket, bye law 30 kit, screened overflow. Tank to be fitted with WRAS approved components ; including all associated fittings & accessories; all to the Engineer's specification and details.	1	Nr		
B	Electric water heaters (EWH1); 15 ltr under sink or over sink heater size, 360x246x385mm 3kw @230v and 0.85kwh/24h with 18min heating time including all associated fittings & accessories; all to the Engineer's specification and details.	2	Nr		
	Accessories associated with primary equipment				
	<i>Accessories associated with primary equipment - All in accordance to the drawings and specifications, including all associated supports as required</i>				
C	Pump	1	Nr		
D	Isolation Valves	1	Nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	53. WATER DISTRIBUTION (Cont)				
	<u>WATER INSTALLATION (Cont)</u>				
	Terminal equipment and fittings				
A	Outside Tap	1	Nr		
	Distribution System (For All Units)				
	<i>Distribution System - All in accordance to the drawings and specifications, including all associated supports as required</i>				
	<i>Pipework</i>				
	<i>Cold Water Supply</i>				
B	15mm dia. CWS	1	Item		
C	22mm dia. CWS	1	Item		
D	25mm dia. CWS	1	Item		
E	28mm dia. CWS	1	Item		
	<i>Hot Water Supply</i>				
F	15mm dia. HWS	1	Item		
G	22mm dia. HWS	1	Item		
H	25mm dia. HWS	1	Item		
J	28mm dia. HWS	1	Item		
	<i>Mains Water Supply</i>				
K	15mm dia. MWS	1	Item		
L	22mm dia. MWS	1	Item		
	<i>Insulation</i>				
M	Insulation to Pipework & Fittings	1	Item		
	General				
N	Testing and commissioning	1	Item		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	53. WATER DISTRIBUTION (Cont)				
	<u>WATER INSTALLATION (Cont)</u>				
	General (Cont)				
A	Operating & Maintenance Manuals	1	Item		
B	Working Drawings	1	Item		
C	Co-Ordination Drawings	1	Item		
D	Identification plates, labels and the like	1	Item		
E	As Built Drawings	1	Item		
F	Builders Works - as per D&W Builders Work Schedule	1	Item		
G	Fire Stopping & Associated Fire Protection Work	1	Item		
	54. VENTILATION & AIR CONDITIONING				
	<u>VENTILATION INSTALLATION</u>				
	Primary Equipment				
	<i>Primary equipment to be installed in accordance to the drawings schedules, schematics & specifications, including all associated supports as required</i>				
H	Heat Recovery Unit - HRU1	1	Nr		
J	Heat Recovery Unit - HRU2	2	Nr		
K	Fan Coil Unit - EF1	1	Nr		
L	Extract Grilles - EV1	1	Nr		
M	Extract Grilles - EV2	1	Nr		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
	<u>54. VENTILATION & AIR CONDITIONING (Cont)</u>				
	<u>VENTILATION INSTALLATION (Cont)</u>				
	Terminal equipment and fittings				
	<i>Terminal equipment and fittings - all in accordance to the drawings schedules, schematics & specifications, including all associated supports as required</i>				
A	Supply Louvre - 600x450mm	1	Nr		
B	Supply Louvre - 800x450mm	2	Nr		
C	Exhaust Wall Louvre - 250x250mm	1	Nr		
D	Return Louvre - 600x450mm	1	Nr		
E	Return Louvre - 800x450mm	2	Nr		
	Distribution System (For All Units)				
	<i>Distribution System - All in accordance to the drawings and specifications, including all associated supports as required</i>				
	<i>Extact Air</i>				
F	100mm dia Extract Ductwork	1	Item		
G	150mm dia Extract Ductwork	1	Item		
H	200mm dia Extract Ductwork	1	Item		
J	250mm dia Extract Ductwork	1	Item		
K	300mm dia Extract Ductwork	1	Item		
L	400mm dia Extract Ductwork	1	Item		
M	3-Slot Return Linear slot Diffusers	1	Item		
N	3-Slot Return Linear slot Diffusers	1	Item		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
	<u>54. VENTILATION & AIR CONDITIONING (Cont)</u>				
	<u>VENTILATION INSTALLATION (Cont)</u>				
	Insulation				
A	Insulation to Pipework & Fittings	1	Item		
	General				
B	Testing and commissioning	1	Item		
C	Operating & Maintenance Manuals	1	Item		
D	Working Drawings	1	Item		
E	Co-Ordination Drawings	1	Item		
F	Identification plates, labels and the like	1	Item		
G	As Built Drawings	1	Item		
H	Builders Works - as per D&W Builders Work Schedule	1	Item		
J	Fire Stopping & Associated Fire Protection Work	1	Item		
	<u>(60) SITE SERVICES (MAINLY ELECTRICAL)</u>				
	Notes				
	1 - All containment shown in the drawings represents horizontal runs only. The contractor shall allow for all necessary vertical containment required to complete the installation.				
	2 - The containment layout shown on the drawings is indicative only. The contractor shall verify all routes on site and provide any additional containment required to complete the installation.				

Description	Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) Notes (Cont) 3 - All containment systems shall be coordinated with other building services such as mechanical, plumbing, and fire protection systems to avoid clashes. 4 - Electrical services shall be segregated in separate containment systems according to the type of service (e.g., LV, ELV, Fire Alarm, etc.). 5 - All cable trays, trunking, ladders, and conduits shall be complete with all necessary fittings, including bends, tees, reducers, couplers, brackets, supports, and fixings. 6 - Cable tray and containment supports shall be provided at suitable intervals to ensure proper support and alignment in accordance with manufacturer recommendations. 7 - Where containment passes through fire-rated walls or partitions, suitable fire-stopping shall be provided to maintain the fire rating of the building element. 8 - All containment systems shall be installed in accordance with relevant standards and regulations, and manufacturer installation guidelines. 9 - Colour-coded labels shall be provided for cable trays and containment systems at regular intervals and near risers or openings for identification.				

Description	Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) Notes (Cont) 10 - All materials used for containment shall be factory manufactured and approved, and site fabrication of fittings shall be avoided unless approved. 11 - All work shall be carried out in accordance with IS10101 :2020 5th Edition - National Rules for Electrical Installations. 12 - The electrical contractor is responsible for the coordination of their installation with all other services. 13 - The electrical contractor is responsible for all necessary wall chasing and forming of holes and openings required to carry out their installation. A 14 - The contractor shall provide full detailed lighting calculations for review by the engineer before alternatives to any light fittings can be considered and The emergency lighting installation shall be carried out in accordance with IS 3217:2023. B 15 - The CCTV system shall be viewable and controllable via an app. The contractor shall allow commissioning of the CCTV system on up to 10 client devices. The system shall also be viewable and controllable across the client's computer network using proprietary software and a web browser.		note		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) Notes (Cont)				
A	16 - The access control system shall be manufactured by SALTO or equivalent. Access control units shall be integrated into the door handle, and separate door furniture will not be accepted. Mag locks will not be accepted. The contractor shall supply 20 No. programmed proximity fobs as part of the contract.		note		
	61. ELECTRICAL SUPPLY & MAIN DISTRIBUTION LV INSTALLATIONS				
	System				
B	Remove the existing single-phase meter cabinet for install a new three-phase meter cabinet in accordance with the drawings, specifications, and schematics.	1	Item		
C	Complete LV System installed in accordance with Drawings specifications and schematics	1	Item		
	Equipment				
	<i>Equipment to be installed in accordance with Drawings specifications and schematics</i>				
D	Consumer unit; recessed; including all controls with 3 phase, MCBs, contractors, RCBOs, pulse meters, surge protection, meters, isolators fuses etc, as per Detail Drawings and specifications.	1	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) 61. ELECTRICAL SUPPLY & MAIN DISTRIBUTION (Cont) LV INSTALLATIONS (Cont) Final Circuits in accordance with the drawings, schedules, schematics and specifications <i>ATC Sunray RF or equalant Electrical radiators;</i>				
A	R-01 - 750W	1	Nr		
B	R-02 - 500W	1	Nr		
C	R-03 - 750W	1	Nr		
	DADO Trunking				
D	3 compartment dado trunking	3	m		
	ESB CABINET WORKS				
	<i>STRUCTURAL & FIRST FIXINGS</i>				
	<i>BOARDING & SECOND FIXINGS</i>				
	<i>Marine plywood; BS 1088; WBP bonded; 25mm thick sheeting</i>				
E	grounds; 200mm x 150mm	1	Nr		
	<i>COMPOSITE ITEMS</i>				
	<i>50mm x 25mm white deal framing; 22mm thick blockboard to sides, top and bottom; 22mm thick blockboard doors; overall size 450mm wide x 375mm high x 150mm deep</i>				
F	casing to MCB - board	1	Nr		
	<i>21U Wall Mounted Cabinet</i>				
G	Complete 21U Wall Mounted Cabinet in accordance with the drawings, specifications, and schematics.	1	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	61. ELECTRICAL SUPPLY & MAIN DISTRIBUTION (Cont)				
	<u>LV INSTALLATIONS (Cont)</u>				
	ESB CABINET WORKS (Cont)				
	<i>ESB Meter Cabinet</i>				
A	Complete with ESB - install a new three-phase meter cabinet in accordance with the drawings, specifications, and schematics.	1	Nr		
	<i>PAINTING & DECORATING</i>				
	<i>PAINTING</i>				
	<i>Sanding down; dusting off; one coat aluminium based primer; two undercoats; one coat gloss finish</i>				
B	isolated areas not exceeding 0.50m2	1	m2		
	General				
C	Testing, commissioning and handover training	1	Item		
D	Operating & Maintenance Manuals	1	Item		
E	Working Drawings	1	Item		
F	Co-Ordination Drawings	1	Item		
G	As Built Drawings	1	Item		
H	Identification plates, labels and the like	1	Item		
J	Builders Works	1	Item		
K	Fire Stopping & other associated fire protection works	1	Item		
	62. POWER				

Description	Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) 62. POWER (Cont) <u>GENERAL SERVICES AND SMALL POWER INSTALLATIONS</u> Notes General Services and small power equipment and installation in accordance with the M&E Engineers drawings, schematics, schedules, specifications and ETCI ET101 wiring regulations Rates for outlet devices such as sockets, spurs and the like are to include for the supply, storage, installation, testing and commissioning of the outlet Fittings - Final Circuits (Including Points Terminations) <i>General Services Outlets in accordance with the M&E Engineers drawings schedules, specifications and ETCI ET101 wiring regulations. All Wiring Points to include for all power and control cabling and wiring, conduit, glands, mountings, back boxes and the like as necessary to complete the works</i>				
A 13A - Part M compliant double switched socket	6	Nr		
B 13A - Fused spur, switched or unswitched depending on application	12	Nr		
C 13A - Cleaner's socket mounted at low level	2	Nr		
D 13A - Double switched socket complete with USB outlets	2	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	62. POWER (Cont)				
	<u>GENERAL SERVICES AND SMALL POWER INSTALLATIONS (Cont)</u>				
	Fittings - Final Circuits (Including Points Terminations) (Cont)				
A	Brushed chrome finish 13A switched recessed floor socket complete with set-back cut-out lid to allow the cover to close when in use	5	Nr		
B	IP66 Masterseal type external 13A double switched socket	5	Nr		
C	13A - Fan Coil Unit, Heat Recovery Unit, Booster pump and heater points	11	Nr		
D	20A - Heat Pump Unit points	4	Nr		
E	A/C Unit points	5	Nr		
	Final Circuits				
	Power points				
F	Socket Point	40	Nr		
	Cabling & Sub Mains Cabling				
G	Power Cabling	1	Item		
H	HDMI Cabling	1	Item		
	General				
J	Testing, commissioning and handover training	1	Item		
K	Operating & Maintenance Manuals	1	Item		
L	Working Drawings	1	Item		
M	Co-Ordination Drawings	1	Item		
N	As Built Drawings	1	Item		
P	Identification plates, labels and the like	1	Item		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	62. POWER (Cont)				
	GENERAL SERVICES AND SMALL POWER INSTALLATIONS (Cont)				
	General (Cont)				
A	Builders Works	1	Item		
B	Fire Stopping & other associated fire protection works	1	Item		
	63. LIGHTING				
	LIGHTING, EMERGENCY LIGHTING INSTALLATIONS				
	System				
	<i>Lighting and Emergency Lighting Installations</i>				
C	Lighting System - Lighting and Emergency Lighting system in accordance with the drawings, schedules, schematics and specifications	1	Item		
	Fittings				
	<i>Light Fittings - Normal lighting, external lighting, emergency lighting and lighting controls systems, installations and equipment in accordance with the drawings schedules and specifications. Luminaire rate is to include for supply, storage, installation, testing and commissioning of the luminaire all as specified on drawings and specifications</i>				
	Luminaires				
D	SWW 30W LED Sunex One circular light, 2967 lm, IP20, 4000K (SWW30WLED/84) or equivalent.	0	Nr		
E	10W LED Com Lite up/down wall light, 926 lm, IP65, 4000K (WL 10UDMC) (FF7891) or equivalent.	2	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	63. LIGHTING (Cont)				
	<u>LIGHTING, EMERGENCY LIGHTING INSTALLATIONS (Cont)</u>				
	<u>Fittings (Cont)</u>				
A	9W LED Com Lite track lights, 890 lm, IP20 (TS10WH/4) or equivalent.	0	Nr		
B	26W LED Jupiter inline direct/indirect light, 4000K, IP20 (JIN1130UD) or equivalent.	1	Nr		
C	12W LED Com Lite downlights (CLC models), 4000K, 1680 lm, IP54 (CLC12MC) (FF16797) or equivalent.	5	Nr		
D	LED 3W recessed high output emergency spot, IP20, 5000K (EDL1NM) or equivalent.	6	Nr		
E	LED 18W asymmetrical wallpack, 2351 lm, IP65 (ASWP/4-18W-M3) or equivalent, controlled by photocell.	17	Nr		
F	LED 32W Com Lite surface cans, IP65, 4000K, 3208 lm (SC35MC65) or equivalent.	3	Nr		
G	PIR sensor	4	Nr		
H	Dusk-till-dawn photocell.	1	Nr		
J	Emergency exit sign.	4	Nr		
	Final Circuits				
	Lighting Points				
K	Lighting Point	43	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) 63. LIGHTING (Cont) LIGHTING, EMERGENCY LIGHTING INSTALLATIONS (Cont) Final Circuits (Cont) <i>Lighting Controls and Cabling - Rates for switches, PIRs, sensors, lighting control equipment and the like are to include for supply, storage, installation, programming, testing and commissioning of the device. All Wiring Points to include for all power and control cabling and wiring, conduit, glands, mountings, back boxes and the like as necessary to complete the works - All as per Drawings 19466-A-E-100 & 19466-C-E-100</i>				
A	1 Way Single gang Light Switch as shown on drawing	4	Nr		
B	1 Way Single gang Retractable light switch - DALI dimmable as shown on drawing	2	Nr		
C	2 Way single gang Retractable light switch - DALI dimmable as shown on drawing	2	Nr		
	General				
D	Testing, commissioning and handover training	1	Item		
E	Operating & Maintenance Manuals	1	Item		
F	Working Drawings	1	Item		
G	Co-Ordination Drawings	1	Item		
H	As Built Drawings	1	Item		
J	Identification plates, labels and the like	1	Item		
K	Builders Works	1	Item		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	63. LIGHTING (Cont)				
	<u>LIGHTING, EMERGENCY LIGHTING INSTALLATIONS (Cont)</u>				
	General (Cont)				
A	Fire Stopping & other associated fire protection works	1	Item		
	64. COMMUNICATIONS (DATA)				
	<u>DATA & IT INSTALLATIONS</u>				
	System - Complete installation of system in accordance with the drawings, schedules, schematics and specifications				
B	Complete DATA, IT, AV and Comms System & Equipment in accordance with the M&E Engineers drawings, schematics, schedules, specifications.	1	Item		
	Fittings				
C	U7 Pro Max - high density WiFi 7 or equivalent; all in accordance with Architect's & Services Engineers Drawings and Specification	6	Nr		
D	Floor socket brushed chrome finish complete with set-back cut-out lid to allow cover to close when in use	3	each		
	Final Circuits				
	<i>Data Outlets - in accordance with the drawings, schedules, schematics and specifications, CAT6 cabling,</i>				
E	Double data point	33	Nr		
F	Double data point - floor socket brushed chrome finish complete with set-back cut-out lid to allow cover to close when in use	3	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	64. COMMUNICATIONS (DATA) (Cont)				
	<u>DATA & IT INSTALLATIONS (Cont)</u>				
	Final Circuits (Cont)				
A	Wi-Fi point - Ubiquiti U7 Pro Max or equivalent	6	Nr		
	Mains and Sub Mains Cabling				
	<i>Structured Cabling in accordance with the drawings, schedules, schematics and specifications</i>				
B	Data Cabling	1	Item		
	General				
C	Testing, commissioning and handover training	1	Item		
D	Operating & Maintenance Manuals	1	Item		
E	Working Drawings	1	Item		
F	Co-Ordination Drawings	1	Item		
G	As Built Drawings	1	Item		
H	Identification plates, labels and the like	1	Item		
J	Builders Works	1	Item		
K	Fire Stopping & other associated fire protection works	1	Item		
	65. SECURITY & PROTECTION (FIRE)				

Description	Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) 65. SECURITY & PROTECTION (FIRE) (Cont) <u>Notes</u> Wiring point rates are to include for installation of cables on dedicated fire rated metal cable tray with metal fire ties as required or in metal conduit including any clips, tees, glands etc. required and metal mounting back boxes recessed or surface mounted with fire rated glands as required. Pinning of cables to ceiling slab will not be allowed. Fire alarm cables in partitions are to have mechanical protection eg metal conduit Rates for any equipment or outlets referred to in this section are to include for supply & installation of the outlet. The Electrical Specialist shall supply, install, test and commission a complete addressable fire alarm installation, as indicated on the drawings and Specification <u>SECURITY ALARM</u> System				
A Complete Security Alarm System installation in accordance with the drawings , schedules, schematics and specifications.	1	Item		
<u>Fittings</u>				
B Window inertia sensor	12	Nr		
C Magnetic door contact	4	Nr		
D Internal flashing echo sounder	1	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	65. SECURITY & PROTECTION (FIRE) (Cont)				
	<u>SECURITY ALARM (Cont)</u>				
	<u>Fittings (Cont)</u>				
A	Dual technology passive infrared detector	4	Nr		
B	Intruder alarm keypad	1	Nr		
C	External intruder alarm sounder (SABB)	1	Nr		
D	CCTV communications cabinet complete with 16-channel NVR and 9TB storage	1	Nr		
E	5MP ceiling mounted dome camera	8	Nr		
F	External wide-angle 5MP bullet camera	8	Nr		
G	27-inch HD CCTV monitor	1	Nr		
H	3000VA rack-mounted UPS for CCTV system	1	Nr		
J	IP video door entry station - provide smartphone app to allow remote video calling and access (ACT Pro or equivalent). The system shall allow release of the door from the indoor door station	1	Nr		
K	IP video intercom indoor door station	1	Nr		
L	Intruder alarm panel	1	Nr		
M	Electric strike lock for use with cylindrical or mortise locks on double doors	1	Nr		
N	Electric strike lock for use with cylindrical or mortise locks on single doors	1	Nr		
P	Keypad and proximity reader - Vanderbilt or equivalent	2	Nr		
Q	Wave-to-exit switch	3	Nr		

	Description	Qty	Unit	Rate	Amount
	<u>(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)</u>				
	<u>65. SECURITY & PROTECTION (FIRE) (Cont)</u>				
	<u>SECURITY ALARM (Cont)</u>				
	<u>Fittings (Cont)</u>				
A	Green break glass unit	3	Nr		
	Cabling & Sub Mains Cabling				
B	Security Alarm system cabling	55	Nr		
	General				
C	Testing, commissioning and handover training	1	Item		
D	Operating & Maintenance Manuals	1	Item		
E	Working Drawings	1	Item		
F	Co-Ordination Drawings	1	Item		
G	As Built Drawings	1	Item		
H	Identification plates, labels and the like	1	Item		
J	Builders Works	1	Item		
K	Fire Stopping & other associated fire protection works	1	Item		
	<u>FIRE ALARM INSTALLATION</u>				
	System				
L	Complete Fire Alarm System & Equipment in accordance with the M&E Engineers drawings, schematics, schedules, specifications and I.S3218:2013 and Building Regulations. All equipment must NSAI Certified	1	Item		
	Fittings				
M	2-loop addressable fire alarm panel advanced MX Pro or equivalent	1	Nr		

Description		Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)					
65. SECURITY & PROTECTION (FIRE) (Cont)					
<u>FIRE ALARM INSTALLATION (Cont)</u>					
<u>Fittings (Cont)</u>					
A	XP95 fire alarm break glass unit	3	Nr		
B	XP95 optical type smoke detector	4	Nr		
C	XP95 rate-of-rise heat detector	2	Nr		
D	XP95 flashing base addressable sounder	3	Nr		
E	XP95 input/output unit	7	Nr		
F	Disabled W/C reset unit	1	Nr		
G	Disabled W/C remote reset unit	1	Nr		
H	Disabled W/C pull cord	1	Nr		
J	Disabled W/C overdoor light	1	Nr		
K	Disabled refuge outstation	1	Nr		
L	Disabled refuge control panel	1	Nr		
M	Wall mounted sounder	1	Nr		
N	Conventional IP65 rated wall-mounted beacon/sounder complete with 15-minute time-out	1	Nr		
P	Standard output visual alarm device ceiling mounted	1	Nr		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont) 65. SECURITY & PROTECTION (FIRE) (Cont) FIRE ALARM INSTALLATION (Cont) Final Circuits <i>Wiring point rates are to include for installation of cables on dedicated fire rated metal cable tray with metal fire ties as required or in metal conduit including any clips, tees, glands etc. required and metal mounting back boxes recessed or surface mounted with fire rated glands as required. Pinning of cables to ceiling slab will not be allowed. Fire alarm cables in partitions are to have mechanical protection eg metal conduit.</i>				
A	Fire Alarm system Wiring Point	28	Nr		
	General				
B	Testing, commissioning and handover training	1	Item		
C	Operating & Maintenance Manuals	1	Item		
D	Working Drawings	1	Item		
E	Co-Ordination Drawings	1	Item		
F	As Built Drawings	1	Item		
G	Identification plates, labels and the like	1	Item		
H	Builders Works	1	Item		
J	Fire Stopping & other associated fire protection works	1	Item		

	Description	Qty	Unit	Rate	Amount
	(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
	65. SECURITY & PROTECTION (FIRE) (Cont)				
	<u>EARTHING AND BONDING INSTALLATION</u>				
	System				
A	Earthing & Bonding Cabling in accordance with the drawings and specifications; Bonding for electrical services installation and equipment including copper earth links to containment, equipotential bonding etc. Bonding for all mechanical services equipment, pipework, ducting, sanitary ware etc. as required. Include for Bonding to metal raised floor and false ceiling grids. Include for all cabling, wiring and conduits	1	Item		
	General				
B	Testing, commissioning and handover training	1	Item		
C	Operating & Maintenance Manuals	1	Item		
D	Working Drawings	1	Item		
E	Co-Ordination Drawings	1	Item		
F	As Built Drawings	1	Item		
G	Identification plates, labels and the like	1	Item		
H	Builders Works	1	Item		
J	Fire Stopping & other associated fire protection works	1	Item		

Description		Qty	Unit	Rate	Amount
(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)					
GENERAL					
A	Complete Builders Works required for electrical works as per the Services Engineer's details including all chases, cores, forming openings, sealing and the like	1	Item		
B	Fire stopping and other associated fire protection works all in accordance with Services and architect drawings and Specification	1	item		
C	Contractor to allow for any removal/demolition/making good works and tie-ins to existing services as required as part of the installation works and as per the drawings and specifications	1	item		
D	Contractor to allow for all trunking, conduits & trays s required as part of the installation works and as per the drawings and specifications	1	item		

Description	Qty	Unit	Rate	Amount
COLLECTION				
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Description	Qty	Unit	Rate	Amount
COLLECTION				
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BILL NR 5 - EXISTING BUILDING WORKS Carried to Summary				

Description	Qty	Unit	Rate	Amount
SUMMARY BILL NR 5 - EXISTING BUILDING WORKS TOTAL AMOUNT TO GENERAL SUMMARY	Page No. 5/33			
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BILL NR. 6 – External Works

	Description	Qty	Unit	Rate	Amount
	<u>BILL NR 6 - EXTERNAL WORKS</u>				
	<u>(20) SITE STRUCTURES</u>				
	BICYCLE PARKIN				
A	Complete with bicycle parking racks (3no.), including the Galvanised steel modular free standing steel bicycle racks in bays of 3no. Anchor bolted to concrete for security.; all in accordance with drawings and specifications.	2	nr		
	<u>(30) SITE ENCLOSURES</u>				
	SURFACE PAVING, FENCING AND LANDSCAPING: Fencing				
	<u>Fencing</u>				
B	All timber shall be pressure treated with Tanalith E or similar approved.		note		
	2m high timber Panel Fence				
C	Complete with 2.0m high concrete post with hit & miss timber panel fence and precast concrete gravel board, including 100 x 100 x 2600mm precast concrete fence posts, 100 x 19 x 2000mm timber boards, pressure treated with Tanalith E or similar approved, 3 No. 100 x 19 x 2000mm timber cross beams, pressure treated with Tanalith E, 300mm high precast concrete base plate, precast concrete fence posts with 800 x 900mm concrete footing, set 100mm below FGL, located at the boundary between the Visitor Centre and Yard; all in accordance with the drawings and project specification.	33	m		

	Description	Qty	Unit	Rate	Amount
	<u>(40) ROADS, PATHS, PAVINGS</u>				
	SURFACE PAVING, FENCING AND LANDSCAPING: In Situ Surface Paving				
	<u>Concrete Footpath</u>				
	Complete with the concrete Sloping Path construction,				
A	200 mm compacted Clause 6F1 ; all in accordance with drawings and specifications.	19	m2		
B	200 mm compacted Clause 808 ; all in accordance with drawings and specifications.	19	m2		
C	125mm thick C28/35 concrete; all in accordance with drawings and specifications.	19	m2		
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED)</u>				
	FOUL DRAINAGE				
	<u>DRAINAGE: Below Ground</u>				
	Excavating Trenches				
	<i>Excavating starting from reduced levels; Excavating trenches to receive pipes less than or equal to 250mm nominal diameter; include for disposal of excavated material off site; backfilling with granular backfill material in compliance with Clause 804; all as specified and detailed on Engineer's Drawings and Civil Specification</i>				
D	average depth 1000mm - 1500mm	92	m		
	<i>Extra over for</i>				
E	breaking up existing concrete	92	m		
F	breaking up existing rock	50	m		
	<i>Disposal</i>				

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	FOUL DRAINAGE (Cont)				
	<u>DRAINAGE: Below Ground (Cont)</u>				
	Excavating Trenches (Cont)				
	water				
A	ground water	1	Item		
B	surface water	1	Item		
	excavated material				
C	disposed of off-site at a licensed waste disposal facility	69	m3		
	Beds				
	<i>Granular beds and surrounds to foul drainage pipes as per from Engineer's drawing nr 6000 all to the Architect's specification and details</i>				
D	min 450mm wide x 600mm deep to 100mm diameter pipe	19	m		
E	min 450mm wide x 600mm deep to 150mm diameter pipe	73	m		
	Pipes				
	<i>HDPE pipework and fittings in compliance with requirements of BS 5481; sealing ring joints in the running length; as per Engineer's Civil Specification</i>				
	<i>100mm diameter pipework; laid in position in trench</i>				
F	laid in position	19	m		
	<i>150mm diameter pipework; laid in position in trench</i>				
G	laid in position	73	m		

	Description	Qty	Unit	Rate	Amount
	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u> <u>FOUL DRAINAGE (Cont)</u> <u>DRAINAGE: Below Ground (Cont)</u> Extra over pipes on which they occur <i>HDPE pipework and fittings in compliance with the engineers specifications; sealing ring joints in the running length; as per Engineer's Civil Specification</i>				
A	Bends	10	nr		
B	Straight Joints	5	nr		
	Pipe Accessories				
	Access Junction				
C	Access Junctions - 150mm pipe: proposed foul access junctions as indicated on drawing ; all to the Drawings and specifications .	4	nr		
	Manholes				
D	Precast Manholes 'Type E' all as detailed on drawing ; All manholes must be constructed to IS 1917& IS420:2004 and surrounded in 150mm thick grade C16/20 concrete; all set on 225mm mass concrete base and 200mm pre cast roof cover. Include for all civil works associated including excavations and disposal; all in accordance with drawings and specification.	4	nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
	FOUL DRAINAGE (Cont)				
	<u>DRAINAGE: Below Ground (Cont)</u>				
	<u>Manholes (Cont)</u>				
A	Precast Decompression Manholes (F3) 'Type E' all as detailed on drawing ; All manholes must be constructed to IS 1917& IS420:2004 and surrounded in 150mm thick grade C16/20 concrete; all set on 225mm mass concrete base and 200mm pre cast roof cover. Include for all civil works associated including excavations and disposal; all in accordance with drawings and specification.	1	nr		
B	Precast Manholes 'Type B' all as detailed on drawing ; All manholes must be constructed to IS 1917& IS420:2004 and surrounded in 150mm thick grade C16/20 concrete; all set on 225mm mass concrete base and 200mm pre cast roof cover. Include for all civil works associated including excavations and disposal; all in accordance with drawings and specification.	1	nr		
	Waste water Treatment System (WWTS)				
C	Complete the 36 PE proprietary packaged waste water treatment system (WWTS), complete in accordance with SCA reports, drawings, and specifications. The existing waste water treatment plant and percolation area shall be decommissioned.	1	nr		

	Description	Qty	Unit	Rate	Amount
	(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont) FOUL DRAINAGE (Cont) <u>DRAINAGE: Below Ground (Cont)</u> TER3 Packaged Tertiary Treatment System & Polishing Filter				
A	Complete the 3 No. TER3 packaged tertiary treatment system with 120 m ² attenuation layer, including 75 m ² raised bed polishing filter with tertiary treatment modules - refer to SCA for details. A minimum 0.9 m of soil is required. A soil probe test shall be carried out to ensure 0.9 m of soil is present. Imported soil shall be provided to make up 0.9 m of soil if soil is not present on site.	1	nr		
	Sundries				
	Manhole Covers and Frames				
	D400 cover and frame with hinged galvanised cover cast into roof of chamber; all as detailed on Engineer's Drawings and Engineers Specifications				
B	600mm x 600 opening size	6	nr		
	Mains				
	connections to mains				
C	Connection to existing foul water sewer manhole as indicated on Services Engineer's drawing and in accordance with the requirements of Irish Water	1	item		
	Testing and Commissioning				
D	The Contractor shall include for testing the entire foul drainage system as the work proceeds and at completion all as per the Engineers specification	1	Item		

	Description	Qty	Unit	Rate	Amount
A	<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u> <u>FOUL DRAINAGE (Cont)</u> <u>DRAINAGE: Below Ground (Cont)</u> <u>Testing and Commissioning (Cont)</u>				
	The Contractor shall include for providing a CCTV survey on DVD and high resolution photographs of complete sewer and drainage system after works are complete, CCTV report to be completed and issued to the Engineers all as per engineers specifications	1	Item		
B	<u>(60) SITE SERVICES (MAINLY ELECTRICAL)</u> 61. ELECTRICAL SUPPLY & MAIN DISTRIBUTION <u>LV INSTALLATIONS (Site Services)</u> Fittings - Final Circuits <i>General Services Outlets in accordance with the M&E Engineers drawings schedules, specifications and ETCI ET101 wiring regulations. All Wiring Points to include for all power and control cabling and wiring, conduit, glands, mountings, back boxes and the like as necessary to complete the works</i>				
	Street light with new public lighting column; urbis schreder axia 3, 6m column in accordance with Drawings and specifications.	8	Nr		
C	Final Circuits <i>Power points</i>				
	Light Point	8	Nr		

	Description	Qty	Unit	Rate	Amount
	<u>(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)</u>				
	<u>61. ELECTRICAL SUPPLY & MAIN DISTRIBUTION (Cont)</u>				
	<u>LV INSTALLATIONS (Site Services) (Cont)</u>				
	Cabling & Sub Mains Cabling in accordance with the drawings , schedules, schematics and specifications				
A	125mm ESB DUCT Cabling tie into ESB substation.	1	Item		
B	100mm EIR DUCT Cabling tie into existing JB4	1	Item		
	General				
C	Testing, commissioning and handover training	1	Item		
D	Operating & Maintenance Manuals	1	Item		
E	Working Drawings	1	Item		
F	Co-Ordination Drawings	1	Item		
G	As Built Drawings	1	Item		
H	Identification plates, labels and the like	1	Item		
J	Builders Works	1	Item		
K	Fire Stopping & other associated fire protection works	1	Item		
	<u>(70) SITE FITTINGS</u>				
	<u>FITTINGS: Fittings, Equipment and Furniture</u>				
	<u>Fittings</u>				
	Signage				
L	Complete of Sign Type 1 ;Include all in accordance with drawing no.12085-6111 and specifications.	1	nr		

	Description	Qty	Unit	Rate	Amount
	(70) SITE FITTINGS (Cont)				
	FITTINGS: Fittings, Equipment and Furniture (Cont)				
	<u>Fittings (Cont)</u>				
	<u>Signage (Cont)</u>				
A	Complete of Sign Type 2 ;Include all in accordance with drawing no.12085-6111 and specifications.	1	nr		
B	Complete of Sign Type 3 ;Include all in accordance with drawing no.12085-6111 and specifications.	1	nr		
C	Complete of Sign Type 4 ;Include all in accordance with drawing no.12085-6111 and specifications.	1	nr		

Description	Qty	Unit	Rate	Amount
COLLECTION Page No. 6/1 Page No. 6/2 Page No. 6/3 Page No. 6/4 Page No. 6/5 Page No. 6/6 Page No. 6/7 Page No. 6/8 Page No. 6/9 BILL NR 6 - EXTERNAL WORKS Carried to Summary				
12085-02 - Cape Clear Heritage Centre Bill Nr 6 - External Works Volume C - Pricing Document	6/10			

Description	Qty	Unit	Rate	Amount
SUMMARY BILL NR 6 - EXTERNAL WORKS TOTAL AMOUNT TO GENERAL SUMMARY	Page No. 6/10			
12085-02 - Cape Clear Heritage Centre Bill Nr 6 - External Works Volume C - Pricing Document	Summary 1			

General Summary

Cape Clear Heritage Centre

General Summary		Total €
Bill 1	General Items	
Bill 2	Demolition Works	
Bill 3	Extension Works	
Bill 4	Upgrade Podium Works	
Bill 5	Existing Building Works	
Bill 6	External Works	
Sub-Total		
Total Tender Sum Carried to Form of Tender - Excluding VAT		

VAT Calculation	VAT Rate
	0%
	13.50%
	21%
Total Tender Sum Including VAT	

Signed:

Company:

Address:

Email:

Tel:

TOBIN



