PRICING DOCUMENT FOR:

Domestic Violence Refuge & Social Housing Development. Evergreen Road, Turners Cross, Cork

Option 1 – No Phasing

September 2026

JOHN J. CASEY & Co
Chartered Quantity Surveyors & Construction Cost Consultants

Carrig House, West End, Ballincollig, Cork Tel: 021 4873912
Also at: 6 Friary Lane, Tralee, Co. Kerry. Tel: 066 7193550
And at: 77 Lower Camden Street, Dublin2. Tel: 01 4011650

Employer:	Good Shepherd Cork Bruac Redemption Road Cork
Architect:	Cotter & Naessens Architects, 28 South Mall, Cork
Civil & Structural Engineers:	Punch Consulting Engineers, Elm Court Boreenmanna Road Cork
Services Consultants:	Matt O'Mahony & Associates 8 Sidney Place Wellington Road Montenotte Cork
Conservation Architects:	Carrig Conservation International Ltd Atlantis Building South Cumberland Street Dublin 2
PSDP:	Occupli Euro Business Park Cork
Quantity Surveyors:	John J Casey & Co. Carrig House West End Ballincollig Co. Cork
Date:	October 2026

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	Convent Building - DVR	Conv/1/1
	East Block - DVR	East/1/1
	West Block - Social Housing	West/1/1
	Site Development Works - DVR	DVR SDW1/1
	Site Development Works - Social Housing	West SDW1/1
	Main Summary	(i)

PRELIMINARIES & INSURANCES

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	EL (06-08) PRELIMINARIES & INSURANCES (Option 1 - No Phasing)					
	PRELIMINARIES & INSURANCES (Option 1 - No Phasing)					
	Project					
	The name, nature and location of the Works					
	The name of the Works is:					
A	Domestic Violence Refuge & Social Housing Development, Evergreen Road, Turners Cross, Cork		Note			
	General Description of the Works					
B	The proposed development, comprises the renovation and extension of the existing convent building to provide a Domestic Violence Refuge including associated services and accommodation (DVR) and construction of new 4 storey residential blocks to provide 32no. social housing apartments and all associated parking, roads and ancillary services (West Block)		Note			
	Site Location					
C	The site a brownfield site located at Evergreen Road, Turners Cross, Cork and is outlined on Architects Site Layout Plan Existing Drawing No. 103 & Site Layout Proposed Plan Drawing No. 104. The contractor shall ensure all works are completed diligently to avoid any impact on adjoing properties including residential, Bun Scoil Chriost Ri and Bus Depot. Road access to the site is provided via a laneway from Evergreen Road.		Note			
	Parties and Consultants					
	The "Employer" where ever mentioned, shall be taken to mean:					
D	Good Shepherd Cork, Bruac, Redemption Road, Cork.		Note			
	The "Employer's Representative" where mentioned, shall be taken to mean:-					
E	Cotter & Naessens Architects,		Note			
	The Project Supervisor Design Process where mentioned, shall be taken to mean:-					
F	Occupli. Contact Person: Daniel Kiely, Ph. (021) 4978100		Note			
	The Architect where mentioned, shall be taken to mean:-					
G	Cotter & Naessens Architects, 28 South Mall, Cork. Contact Person: Anne-Marie Cooke, Ph. (021) 4847123		Note			
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	The Civil / Structural Engineer where mentioned, shall be taken to mean:-					
A	Punch Consulting Engineers, Elm Court, Boreenmanna Road, Cork. Contact Person: David Coughlan, Ph. (021) 4624000		Note			
	The Services Engineer where mentioned, shall be taken to mean:-					
B	Matt O' Mahony & Associates, 8 Sidney Place, Wellington Road, Cork. Contact Person: Paul O' Brien, Ph. (021) 4506364		Note			
	The Conservation Architect where mentioned, shall be taken to mean:-					
C	Carrig Conservation, Atlantis Building, South Cumberland Street, Dublin 2. Contact Person: Leila Budd, Ph. (01) 5529080		Note			
	The Quantity Surveyor where mentioned, shall be taken to mean:-					
D	John J Casey & Co , Carrig House, West End, Ballincollig, Co. Cork. Contact Person: Conor Hannon, Ph. (021) 4873912		Note			
	Security of Site					
E	Contractor shall provide for fully securing the site from trespass. The site is located off Evergreen Road. The contractor shall confine his operations to the construction work areas and shall not allow his operatives to trespass beyond these confines. Construction traffic noise shall be kept at the lowest possible level.		Note			
	Existing Buildings / Adjoining Land Uses etc.					
F	Refer to Architect's Drawing Nos. 103 & 104. The contractor will be required to familiarise himself with the site and the surrounding areas, prior to submitting their tender. The contractor should familiarise himself with all businesses, public facilities, residences, schools, bus depot, traffic volumes etc., which may be effected by the works, and ensure that adequate provision is made for providing suitable control measures on and adjacent to the site, to protect the Safety Health and Welfare of all persons effected by the works, including local residents, pedestrians, cyclists, motorists and public transport service users. The contractor must so plan and execute the work in order to cause the minimum disruption and inconvenience to the running of adjoining properties.		Item			
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	Traffic Management Plan					
A	The successful Contractor will be required to submit an approved Temporary Traffic Management Plan prior to work commencing on site. The contractor is advised that works will not be permitted to proceed until thisTraffic Management Plan is in place and approved by all relevant parties. The Temporary Traffic Management Plan should be designed by a competent TTM Designer engaged by the main contractor. This TTM Plan, should be issued to the PSCS, to allow him/her to coordinate the implementation and operation of the Temporary Traffic Management Plan. At Tender Stage, Contractors will be required to demonstrate that they have given adequate consideration to the Management of Traffic for the duration of the works, and the impact the works will have on the local traffic and pedestrians. Pedestrian management will be crucial to the plan. All Road Works to be in accordance with Chapter 8 Temporary Traffic Measures and Signs for Roadworks. Reference should also be made to HSA Publication 'Guidance for the Control and Management of Traffic at Roadworks'. The Contractor is to take account of the impact the site traffic will have on the local environment, and devise and implement a suitable traffic and pedestrian management system, taking particular care at Evergreen Road the planned entrance to the site and at the entrances to adjacent properties. A clear route for Ambulance and Fire Tender access must be maintained at all times. The Contractor shall ensure all routes are kept free and unblocked at all times. The Contractor is to monitor and control materials delivery to site and removal of waste materials from site in order to ensure that the roads surrounding the site, all of which are fire tender access routes, are maintained free flowing at all times. No reversing of vehicles on to Evergreen Road will not be permitted at anytime. The contractor will be obliged to give Bus Eireann advance warning of the works on Evergreen Road, and also to liaise with them to acquire details of the bus timetable, in order to familiarise themselves with the busy bus timetable. A Road Opening licence will be required for any works on Public Roads, Footpath or Green areas.		Item			
B	Pedestrian exit from school and vehicular emergency exit from school to be maintained at all times as indicated in Option 1 on Architects Drawing No. 101.		Item			
C	Provide ongoing traffic control during the construction stage when traffic is exiting and entering the site.		Item			
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	Cleanliness of Private / Public Roads / Paths					
A	The Contractor shall include provision of wheel wash and keep private / public roads clean and free of obstruction at all times and make good any damage caused by construction work and traffic at his own expense. All warning signs including traffic control lights, flag men as necessary for the protection of the public shall be provided.		Item			
	Visit Site					
B	Contractors are strongly advised to visit the site and ascertain the facilities and access thereto, the supply of labour and materials the district will afford, the general convenience of working, the nature of the soil, the nature, character, dimensions, levels and other features thereon and adjoining properties, available space around the position of the buildings, adequacy of area available for storage of materials and position of huts, sheds etc. and all things insofar as they may have any connections with or effect the full and proper execution of the works. They will be deemed to have taken all the above matters into account when tendering and no claim for any payment will be allowed in consequence of the Contractor's failure to do this. Arrangement to visit the site should be made through the Ms. Anne-Marie Cooke, Carr & Naessens Tel: (021) 4847123 / Email: acooke@ccnarchitects.net		Item			
	Consents					
	<u>Planning and other consents obtained or to be obtained by the Employer are;</u>					
C	Planning Approval (Part 8)		Note			
D	Fire Certificate		Note			
E	Disability Access Certificate		Note			
	<u>Consents to be obtained by the contractor are:</u>					
F	The Contractor shall obtain all Consents necessary		Item			
G	The Contractor shall give and comply with all notices and pay all taxes, fees and charges required under Legal Requirements to be paid in connection with performing the Contract		Item			
				To Collection €		

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	Survey of existing buildings, existing roads, ground levels, roads, entrances levels					
A	Allow for providing full level checks and digital local area surveys to existing buildings, ground levels, roads, entrances prior to any procurement to ensure co-ordination of the project. Also on completion of works a full level survey will be required.		Item			
B	The Contractor shall signify in writing his agreement to the correctness of the existing ground levels, as indicated on the drawings, before commencement of the works and before the existing ground levels are disturbed.		Item			
C	If the Contractor is of the opinion that the existing ground levels vary from those shown on the drawings he shall immediately seek instructions and clarification from the Employer`s Representative. Failure by the Contractor to comply with this requirement will be taken to indicate there is no divergence between the existing levels and those shown on the drawings. Unilaterally prepared records will not be accepted after the completion of excavation works concerned.		Item			
	Advertising					
D	All advertising rights are reserved for the Employer.		Note			
	Avoid Disruption					
E	The contractor should so plan and execute the work in order to cause the minimum disruption and inconvenience to the adjoining properties.		Note			
	Safety of Occupants					
F	The existing adjacent lands, properties, paths and roads will remain occupied or usable during the execution of the Contract and the Contractor shall therefore take necessary precautions to protect all from dust, excessive noise and other interference arising from the work.		Item			
	Security of Existing Properties					
G	The security of the existing adjoining properties is to be maintained at all times and shall not be compromised by contractor's scaffolding, ladders, hoarding, or in any other manner.		Item			
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	The Site					
A	Notwithstanding the inclusion of the Preliminary Health & Safety Plan in the Tender Documentation the Contractor must, prior to submission of tender, visit the site, and ascertain all local conditions relevant to the carrying out of the Works.		Item			
	Ground Conditions					
B	A Site Investigation Report has been included in the Tender Documents		Item			
C	The tenderer is afforded the option of carrying out Site Investigations during the tender period.		Item			
	Description of Site					
	Site boundaries					
D	The site boundaries for the works are as indicated on Architect's Drawing Nos. 101, 103 & 104		Item			
	Restrictions on access					
E	The design of the site entrance at Evergreen Road will be subject to approval of the Client and the Cork City Council Roads Division. In addition to the main double gate access / exit a separate entry and exit gateway should be provided for pedestrians entering / exiting site in order to minimise the risk of pedestrians being struck by site vehicles. The contractor is to ensure that extra vigilance is maintained at all times adjacent to the site entrance for the presence of young children on foot and or on bicycles. The contractor is not to obstruct any emergency vehicle, refuse collection and deliveries to the adjacent businesses at any time. The contractor is to implement an appropriate booking in-and-out system for all site personnel and visitors. Procedures are to be put in place for Safe-pass and other certification methods. Contractor's personnel shall carry appropriate (and visible) identification at all times on site. The contractor shall implement a site-specific Health and Safety induction procedure. The contractor is to visit the site in order to satisify himself that he is aware of all local conditions affecting site access; no claims will be entertained for the contracters failure to do this. All access requirements including fire tender access and temporary escape routes are to be maintained. Pedestrian exit from school and vehicular emergency exit from school to be maintained at all times as indicated in Option 1 on Architects Drawing No. 101.		Item			
				To Collection €		

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A	Restricted Areas - The site is adjacent to a primary school, Bunscoil Chriost Ri to the SouthThe Capwell Bus Depot is to the North of the Site. A number of residential buildings as well as other retail are located on the street to the North of the site. Residents and Users must have access at all times to their houses, school, bus depot, businesses etc. and allocated parking areas. All emergency vehicles and all normal service vehicles must have continuous uninterrupted access at all times. At any pinch points, a minimum carriage width of 3 .5m must be maintained at all times (unless otherwise agreed with Cork City Council's Roads Department, the Gardai and CCC Traffic Division). Service connections and infrastructural work are to be carried out with minimum disruption to the existing residents, schools & businesses. Contractors Traffic Management Plan to fully accommodate local traffic residents parking and pedestrians. While the Works are ongoing the Contractor will direct the residents to suitable alternative routes / parking areas, if necessary, safe vehicular and pedestrian access must be maintained to all dwellings and business. Any disruptions by continuous works in an area outside of the site curtilage, the Contractor to agree and approve with residents and Cork City Council. Pedestrian exit from school and vehicular emergency exit from school to be maintained at all times as indicated in Option 1 on Architects Drawing No. 101.		Item			
B	The Contractor shall ensure that no damage is caused to any existing buildings, or services due to the delivery of materials, the execution of the works or the removal of rubbish. The Contractor shall be entirely responsible for any damage due to his failure to comply with this clause.		Item			
C	The Contractor must ensure that he complies in full and with all Local Authority and Garda Siochana requirements and restrictions which may affect the site and access thereto including any restrictions in the locality.		Item			
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	Proposed Site & Interface With the Existing Environs (all as per Architects Drawing No. 101 & 104)					
A	Site Boundaries, Pedestrian Access and Control - (Refer also to Preliminary Safety and Health Plan) - The suggested extent and location of the Site Boundary and hoarding is shown outlined in RED on Architects Drawing Nos. 101 & 104, Contractor to provide and maintain a safe pedestrian pathway outside the line of Site Hoarding. Contractor to be cognisance of allowing adequate sightlines at all junctions. This will form part of the main contractor's traffic management plan. Pedestrians shall be made aware of the Site Entrance, which will be located at Evergreen Road. A safe transfer across the site entrance must be provided. A safe and adequate access for existing residents must be provided and maintained in all areas for the full duration of the Works. All existing public lighting levels must be maintained on existing roadways, pedestrian footpaths and access routes. All new pedestrian routes, along with parking areas must be fully lit by the Contractor and at his own expense. Liaison with CCC Public Lighting Department will be required. The operation and control of this shall form part of the Contractor's Traffic Management Plan and be agreed with Cork City Council Traffic Division prior to the commencement of works. Pedestrian exit from school and vehicular emergency exit from school to be maintained at all times as indicated in Option 1 on Architects Drawing No. 101.		Item			
B	Site Entrance and Compound (Refer also to Preliminary Safety and Health Plan) - The Contractor's Site Compound must be within the area of the proposed Site, which is outlined in RED on Architects Drawing Nos. 101 & 104. For the duration of the Works, all site access must be off Evergreen Road. The Site Entrance must allow for adequate sight lines and must be supervised at all times. Via designated points, safe pedestrian transfer across this entrance point, shall be allowed for. Adequate sight lines must be provided at all traffic and pedestrian junctions. All proposed to and agreed with CCC Traffic Division. This is the Contractors responsibility. The operation and control of this will form part of the Contractor's Traffic Management Plan as agreed with Cork City Council Traffic Division, prior to the commencement of works.		Item			
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A	Works outside of the SITE - Public Roads, Footpaths and Green areas. The Works Requirements for This development includes for Works outside of the site curtilage. Works outside of the site curtilage are necessary for service diversion and connections. The Contractor shall ensure the continuity of all existing utilities in the immediate and surrounding areas during these Works. The Contractor must prepare Traffic Management Plans for all necessary traffic restrictions: i.e. necessary routes, parking and flow, along with the safe management of pedestrians, to be agreed with and approved by CCC Traffic Division. All works carried out on Public Areas - namely roads footpath and greens, must be by the consent and agreement of Cork City Council's Roads Department, the Gardai and CCC Traffic Division. Specific licensing procedures apply. It is a requirement that any excavation on a public area or public road be reinstated daily to the satisfaction of Cork City Council's Roads Department. The contractor to seek the approval of CCC Traffic Division for any temporary proposals.		Item			
	Position of the Works					
B	The position of the Works is as indicated on Architect's Drawing Nos. 101 & 104		Item			
	Information on isolated/adjacent structures					
C	The Contractor must visit the site, prior to submission of his tender, and ascertain all local conditions, including but not limited to those of the isolated / adjacent structures and other restrictions that will or are likely to affect the execution of the works. No claim will be entertained for any lack of knowledge, understanding or appreciation of the nature and complexities of this contract. The site area that will be available to the contractor are shown on Architect's Drawing Nos. 101 & 104.		Item			
	Carparking					
D	Car-parking on site should be resticted to Contractor's Compound only and off site. The contractor and employees must not use or impede the use of other car-parking areas adjacent to the site.		Note			
E	The Contractor will not be allowed to store materials or park trucks on any part of the public roadway access. The Contractor will also be required to ensure that the Contractors entrance gate from the public roadway is kept locked at all times other than when required to be opened for delivery and access purposes. No other carparking will be provided outside the site boundary.		Item			
				To Collection €		

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	Contractors Site Compound					
A	The Contractors site / compound shall be restricted withing the red line works boundary as indicated on Architect's Drawing Nos. 101 & 104 and will be required to position all huts, sheds, toilet facilities, storage of materials etc. within this area. Contractors shall provide all their own Welfare Facilities and will not be allowed use of existing facilities.		Item			
	Waste Management					
	The Contractor is to comply fully with the full requirements of the Waste Management Acts 1996 to 2010. The Contractor is to provide a Waste management Plan for the works					
	Waste Management					
B	The Contractor is to comply fully with the full requirements of the Waste Management Acts 1996 to 2010. The Contractor is to provide a Waste management Plan for the works		Item			
C	The Contractor is to allow for operation of compound to comply with Construction Waste Management Plan.		Item			
D	Contractors should include for full compliance with the EPA Best Practice Guidance (which is included in the Information Pack) on preparation of construction and demolition waste management plans for construction projects. This should form part of the contractor's waste management plan and compliance with the waste management plan is mandatory.		Item			
	Planning Conditions					
E	The Contractor is to allow for complying with all Conditions of Planning (Part 8)		Item			
	Existing Extensive Services on, under or over the site					
F	Existing services known to exist on site are shown on Engineers drawings. Particulars of all known existing services will be indicated to the Contractor on site. He must also use his best endeavours to determine the position of all existing underground services prior to starting excavations. The Contractor shall maintain existing services as required by the Design Team		Item			
				To Collection €		

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A	The Contractor shall fully satisfy himself as to the exact location of all existing services. The Contractor should contact the Electricity Supply Board, other Statutory Undertakings/ Public Utilities and the local County Council in relation to power cables, telephone cables, drains and watermains in advance of any excavation or opening up of work and formulate a contingency plan to ensure an immediate emergency response by the relevant bodies in the event that such services are damaged.		Item			
	Notification of Work					
B	Before any work commences affecting any operational areas of local area (eg road disturbance), proper notification including details of work, site limitations, programme etc must be submitted and agreed with the Employer's Representative.		Item			
	Temporary Closing of Services					
C	Temporary closing of services or any work in making connections to existing services connected to existing buildings on site shall be carried out only after seven days prior written notice to the Employer's Representative and then at such times as he shall agree after consultation with the Employer		Item			
	Damage to Services					
D	The Contractor shall take all reasonable precautions to protect all services against damage. In the event of any damage the contractor shall immediately report the matter to the Employer's Representative and shall make good all damage at his own cost		Item			
	Maintenance of Existing Services					
E	Protect, uphold and maintain all pipes, ducts, sewers, service mains, cables etc., during the execution of the works. The contractor is to make good any damages due to any cause within his control at his expense and pay any costs and charges in connection therewith		Item			
				To Collection €		

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	Services Co-Ordinator					
A	The Contractor will be required to employ, and assign to the project, a suitably qualified engineer whose duties will be to co-ordinate both internally and externally the design of the mechanical, electrical, fire protection and related services, and their relationship to, and integration with the building design. To this end it will be part of his duties to liaise with all parties concerned, on both the design and contracting side to ensure a satisfactory resolution of any problems regarding the integration of services into the building. The Contractor shall notify the Employer's Representative of the name of the person so appointed and his normal place of work.		Item			
	Health & Safety Hazards					
	Asbestos Containing Material					
B	Duty: report immediately any suspected materials discovered during execution of the works. Do not disturb.		Item			
C	General: The nature and condition of the site/ building cannot be fully and certainly ascertained before it is opened up. However the following hazards are or may be present. Information: The accuracy and sufficiency of this information is not guaranteed by the Employer, Architect or Project Supervisor Design Process. Ascertain if any additional information is required to ensure the safety of all persons and the Works. Site staff: Draw to the attention of all personnel working on the site the nature of any possible contamination and the need to take appropriate precautionary measures.		Item			
	Areas of Work involving Particular Risks known to Contracting Authority					
D	A risk of infection from biological material is presented when stripping out and demolishing existing structure and fitments and in particular when working on sanitary accommodation and sewers. A risk is always present of discovering previously undiscovered asbestos containing material.		Item			
	Convenience of others					
E	The Contractor shall consult the convenience of anybody who may be affected by the work with regard to the approaches to be used, suitable times for making deliveries and all other matters affecting them.		Item			
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	Hoarding, fences, screens, temporary roof, advertising rights					
	Temporary fencing, hoarding, screens, planked footways, guard rails, gantries and similar items					
A	Provide temporary fencing (min 2400mm high) timber solid hoardings for protecting the public for the proper execution of the works and for effectively enclosing and protecting the site including full perimeter of site compound against trespass and interference. Obtain approval from the Employers Representative for all temporary hoardings and fences and comply with the requirements of the Local Authority and as per the Architects's Drawing Nos. 101 & 104		Item			
B	All advertising rights are reserved by the Employer		Item			
	Pedestrian Walkway					
C	A safe, well lit, pedestrian walkway shall be provided along the side of the site hoarding at Evergreen Road. All pedestrian walkways shall be well lit in a manner that avoids dark spots and the risk of increased anti-social behaviour. Particular consideration shall also be given to the management of pedestrians adjacent to the Site Entrance. Clear segregation of construction vehicles and pedestrians will be a priority. Where public walkways cross roadways / site entrance, the contractor shall provide a clearly signed and lit crossing point where drivers and pedestrians can see each other clearly. Contractor's proposals for barriers are to be included in the Traffic Management Plan. Refer to 'Traffic Management Plan' above. The contractor shall ensure that pedestrian walkways are not blocked at any point and that pedestrians are not forced to step onto the vehicle route at any time.		Item			
	Site sign board					
D	The Contractor shall include for the cost of a 1No suitable site sign board approx. 2.40m x 4.00m high x 3.00m above ground., including all necessary supports, foundations, etc. bearing the names of the Employer, Employer's Representative, Design Team, Main Contractor and Sub-contractors etc. The Employer's Representative's approval to the design, layout and location of this board shall be obtained before it is erected. Include for removal on completion.Temporary structure fot site signage to be designed by contractor.		Item			
				To Collection €		

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	Noise Levels / Control					
A	Noise during site clearance and construction shall not exceed 65 dB (A), Leq 30minutes and the peak noise shall not exceed 75 dB (A), when measured at any point off site.					
B	Noise levels shall be kept to a minimum with special silencers, mufflers and suppressors applied to plant, tools etc. Close liaison shall be maintained between the Employer, Employer's Representative and Contractor to ensure overall noise levels are maintained to an acceptable level. Particularly noisy activities shall not be carried out between 6.00 p.m. and 8.00 a.m. Saturday & Sunday works will not be permitted. Include for complying with all requirements on Noise Control.		Item			
C	The Contractor shall include for compliance with BS 5228- Noise and Vibration Control on Construction Sites, and for compliance with all current Health and Safety Regulations. Fit all compressors, percussion tools and vehicles with effective silencers of a type recommended by manufacturers of the compressors, tools or vehicles. The Contractor will be required to liaise closely with the Employer's Representative so as to minimise the nuisance caused by noise and no extra cost will be recoverable for compliance therewith.		Item			
D	Noise levels from the proposed development shall not be so loud, so continuous, so repeated, of such duration or pitch or occurring at such times as to give reasonable cause for annoyance to a person in any premises in the neighbourhood or to a person lawfully using any public place. In particular, the rated noise levels from the proposed development shall not constitute reasonable grounds for complaint as provided for in British Standard 4142 Method for rating industrial noise affecting mixed residential and industrial areas.		Item			
E	Prior to commencement the Main Contractor shall submit for written agreement, details outlining how it plans to undertake all piling on site. Please refer to British Standard 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites Part 2.		Item			
				To Collection €		

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A	Prior to the commencement, the Main Contractor shall identify all potentially significant noise sources at the proposed development site, and their expected noise output quantified by (a) reference to LWA levels or LAeq T levels (at a specified distance) provided by the manufacturer/supplier, (b) reference to typical levels set out in the relevant British Standards BS 4142:2014+A1:2019, or (c) direct measurement of the equipment onsite or at a similar facility. Items that need to be considered are extract fans, air-conditioning, and plant room. (This is a non-exhaustive list.)		Item			
B	Allow for complying with all requirements for noise control		Item			
	Dust control					
C	Allow for complying with all requirements for dust control		Item			
	Employer's Display Requirements					
D	Allow for complying with Employers Display requirements		Item			
	Progress Photographs					
E	Progress Photographs showing the Work shall be taken at weekly intervals per Section A32 280 of Architects Preliminaries to demonstrate rate of contractor progress on site. All images shall be numbered, filed and on completion shall become the property of the Client. The contractor shall not use any advertisement nor sanction any publication in connection with the Works without the written agreement of the Employer		Item			
	Cleanliness					
	Removing rubbish, protective casings and coverings and cleaning the works on completion must be provided to a very high standard by professional cleaners					
F	Remove all rubbish from the works as it accumulates and maintain the works in a clean and tidy condition for the duration of the contract. Clean the works internally and externally, remove all rubbish and leave the entire works in a tidy condition ready for immediate occupation or use.		Item			
				To Collection €		

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	Title					
	Historical Finds					
A	All fossils, coins, articles, structures and other remains or other things discovered on site of the works shall be the absolute property of the Employer, and the Contractor shall take all precautions to prevent his workmen or any other persons from removing or damaging any such articles or things and shall immediately upon discovery thereof and before removal acquaint the Architect of such discovery.		Item			
	Drawings, Specifications, Schedules and Reports					
	Drawings and Other Documents					
	Tender Documents					
	The Tender Documentation consists of the following;					
B	Information Pack		Note			
C	Tender Invitation Letter		Note			
D	Form of Tender / Schedule		Note			
E	Schedule of Works Requirements		Note			
F	Pricing Document		Note			
G	This project will require careful adherence to the Works Requirements and liaising with the Design Team in all respects.		Note			
	Building Regulations					
H	The contractor shall ensure that all work is in full compliance with the Building Control Regulations 1991 and Regulations current at date of tender, whether or not such itemised requirements are stated in the Works Requirements and/or the Pricing Documents		Item			
	Arrangements for inspection					
J	A full set of Tender Documents and other documents relating to the Contract may be seen by prior appointment with the Employer's Representative		Note			
				To Collection €		

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	Schedule of Condition					
A	The Contractor is advised that a Schedule of Condition will not be available at tender stage. The successful contractor will be invited to meet with members of the design team on site prior to commencement of any site operations. The condition of the employer's buildings and those of adjoining owners and occupiers will be discussed and agreed by the Contractor and the Consultants.		Item			
	Drawings and documents from which Bill is Prepared					
	Cotter & Naessens Architects					
B	Refer Volume A Works Requirements Folder		Item			
	Punch Consulting Engineers					
C	Refer Volume A Works Requirements Folder		Item			
	Matt O' Mahony & Associates Services Engineers					
D	Refer Volume A Works Requirements Folder		Item			
	Carrig Conservation					
E	Refer Volume A Works Requirements Folder		Item			
	Bills of Quantities, Standard Method of Measurement					
F	These Bills of Quantities is generally measured in accordance the Agreed Rules of Measurement (ARM4), 2009, as prepared and revised by the Joint Committee established by the Construction Industry Federation and the Society of Chartered Surveyors. Incorporating the Department of Finance approved current list of amendments for Public Works Contracts Designed by the Employer		Note			
G	Notwithstanding the Agreed Rules of Measurement, deviations from same may occur where work has not been measured in detail but in such instances, the description given in the Bill of Quantities (Pricing Document) shall be deemed to be fully inclusive of all requirements		Note			
	Bills of Quantities : Format					
H	The Bills of Quantities are set out in Elemental form in accordance with the National Standard Building Elements, second edition, April 1973 and published by An Foras Forbartha.		Note			
				To Collection €		

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	Unpriced Items					
A	Costs for items which are not priced shall be deemed to be included in priced items in the Bill of Quantities.		Note			
	V.A.T.					
B	All items in these Bills of Quantities should be priced exclusive of the cost of Value Added Tax. Provision is made at the end of the General Summary for the addition of V.A.T..		Note			
	Customs Duties					
C	The Contractor will be deemed to have included in his tender for all Customs and other duties legally payable at the Designated Date.		Item			
	Special Condition.					
D	1. All Tenderers shall submit proof of current insurance with their tenders.		Note			
	Price in Detail					
E	1. The Bills of Quantities, fully priced, must be submitted at the time of tendering.		Note			
F	2. Please note that the Bills of Quantities must be completed and signed by an authorised person in ink. Pricing in pencil is not acceptable.		Note			
G	The contractor is referred to the measurement & prices clauses in section A "General Rules" and the relevant sections of ARM4. Incorporating the Department of Finance approved list of amendments for Public Works Contracts Designed by the Employer		Note			
H	The contractor will price every item that has a value and use realistic rates to facilitate accurate costings of variations and claims. Unpriced items will be deemed to have there cost included elsewhere or to be nil value. Unrealistic rates submitted in the bill of quantities will be subject to adjustment in order to achieve a fair and reasonable balance within the contract document.		Note			
	<u>General arrangement, working and construction drawings</u>					
J	The Contractor shall make available and maintain a full set of the Works Requirements and up-to-date construction drawings and working drawings on site for ease of reference by the Design Team		Item			
				To Collection €		

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	Materials and Workmanship Specifications					
A	The Contractor shall allow here for carrying out the Works in strict compliance with the Works Requirements and to the satisfaction of the Employer's Representative		Item			
	Materials and Workmanship					
B	The materials and workmanship shall be to the satisfaction of the Employer's Representative and shall be the best of their respective kinds. Materials shall comply where applicable to the current Irish or British Standard. All trade practices customary in ordinary good quality work shall be observed so as to ensure a sound and satisfactory job. All materials shall be used, applied and fixed strictly in accordance with their manufacturer's instructions, together with all necessary appliances, accessories, etc., as may be recommended by them. All work shall be carried out by competent tradesmen under the supervision of the Contractor or reliable foreman.		Item			
C	The term "Standard" in the Specification means that the articles or services specified shall conform to the latest appropriate Irish Standard Specification or where such is not available to the appropriate British Standard Specification.		Item			
	Samples					
D	Samples of all materials, manufactured articles and executed work shall be submitted to the Employer's Representative for approval before adoption. Such approval will not relieve the contractor from responsibility for any defects.		Item			
	Submission of Samples					
E	If requested by the Employer's Representative, samples of all materials proposed to be used for the works shall be submitted to him, together with the name and address of the supplier and such information, instructions and directions as the supplier has issued. Samples shall then be subject to the Engineer's approval prior to the delivery of the materials to the site. All materials delivered to and used upon the works must be at least equal in quality to the same, and the Contractor shall ensure that he complies with all manufacturer's instructions and recommendation. Any materials condemned by the Engineer as unfit for use in the works shall be immediately removed from the site at the Contractor's expense.		Item			
				To Collection €		

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A	The Contractor shall include here for supplying All samples requested in the specifications.		Item			
B	All samples also includes those listed in Section 2.2 Samples of Carrig Conservation Specification. If cost of same is not included above it should be included here.		Item			
C	Allow for complying with all requirements for samples / mock-ups.		Item			
D	All materials and prefabricated items shall be manufactured and tested in accordance with the specified requirements. When evidence of conformance depends solely on inspections and tests performed by a Sub-Contractor, Manufacturer, Supplier or independent inspecting authority, the Contractor shall ensure that such evidence is satisfactory and that appropriate records are maintained.		Item			
E	No materials or prefabricated items shall be used in the works until it has been verified that they comply with the specified requirements		Item			
F	Where appropriate, all materials and prefabricated items delivered to the site shall bear the Manufacturer's name, brand name, or any other detail that may be required to verify the exact nature of the material or item and relate it to the specified requirements.		Item			
G	Where applicable, materials and prefabricated items shall be obtained from Suppliers and Manufacturers who have been assessed by an independent certification authority accredited by the National Accreditation Council for Certification Bodies.		Item			
H	Where applicable, materials and prefabricated items shall bear the British Standards Institution Certification mark, the British Board of Agreement Certification mark or other appropriate certification mark.		Item			
J	Transportation, handling and storage of materials and prefabricated items shall be controlled to prevent mis-use, damage or deterioration.		Item			
K	The Contractor shall operate quarantine procedures for the identification and isolation of materials and prefabricated items that do not comply with the specified requirements.		Item			
L	Works test certificate shall include, whenever applicable, the location in the works or the delivery or batch which the sample represents.		Item			
				To Collection €		

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	Deleterious, Hazardous or Undesirable Materials						
	The materials listed below shall not be used on the project either in temporary works or incorporated in the permanent works in any shape of form:-						
A	(a) High Alumina Cement or Concrete;		Note				
B	(b) Calcium Chloride;		Note				
C	(c) Calcium Silicate or sandlime bricks or tiles;		Note				
D	(d) Pyrites		Note				
E	(e) Asbestos products;		Note				
F	(f) Wood Wool;		Note				
G	(g) Crocidolite;		Note				
H	(h) Sea Dredged Aggregates;		Note				
J	(i) Urea Formaldehyde;		Note				
K	(j) Materials containing fibres with a diameter of three microns or less and a length of 200 microns or less;		Note				
L	(k) Polytetra Fluroethylene (PTEE) except when used as a non stick sealing within valves, joining material between pipes or as an isolating tape;		Note				
M	(l) Mineral fibres (man made or naturally occurring) which are not stabilixed materials to prevent fire migration.		Note				
N	(m) Halon		Note				
P	(n) Lead based paint; and		Note				
Q	(o) any other material generally considered to be deleterious at the time of use.		Note				
	Removal of Improper Work and Materials						
	The Employer's Representative shall have the power to order during progress of the Works :-						
R	(a) Removal from the site of any materials which in his opinion are not in accordance with the Contract.		Item				
S	(b) Substitution of proper materials		Item				
					To Collection €		

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A	(c) Removal and proper re-execution (notwithstanding any previous test thereof or interim payment therefore) of any work which in respect of materials or workpeople is not in accordance with the Contract.		Item			
	Procurement of Materials					
B	The name, nature and location of the Works		Item			
	Certificate of Standards					
C	Products / materials shall either be certified as complying with the Irish Standard Specification and shall bear the Irish standard mark or shall be certified to a National Standard of another member State of the European Union which provides an equivalent guarantee of safety and suitability - certification to be by the National Standards Authority of Ireland.		Item			
	Technical Support					
D	The Contractor shall ensure that full technical support is available from material suppliers for the duration of the contract. Include for all costs in connection with same.		Item			
				To Collection €		

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	Vesting Certificates					
A	Within 21 days of acceptance of his/her tender the Contractor shall send to the Employer's Representative a list of the Suppliers from whom the Contractor or Sub-Contractor intends to obtain goods or materials to be embodied in the works and (if not direct Suppliers) the manufacturer's of each item of plant to be embodied in the works that exceeds €6,350.00 in value. The Contractor shall also notify the Employer's Representative promptly in writing of any addition to the list during the course of the works. The list and any additions to the list shall be accompanied by a vesting certificate from each Supplier and manufacturer named. A vesting certificate shall certify that the full ownership (free of any lien or charge) in all goods and materials delivered by or with the authority of the Supplier or manufacturer to the Contractor or Sub-Contractor (whether on the Site of the Works or elsewhere) shall pass irrevocably to the Contractor or Sub-Contractor not later than such delivery notwithstanding any terms of contract of the Supplier or manufacturer and whether or not the Supplier or manufacturer has been paid for the goods and materials. The Contractor shall include with every progress application written evidence that any goods or materials in respect of which payment is requested are the subject of a vesting certificate furnished to the Employer's Representative by the Supplier and (where relevant) manufacturer in accordance with the previous sub-Clause. In the absence of such evidence no payment shall be certified in respect of goods or materials		Item			
	Patent Rights and Royalties					
B	The contractor shall save harmless and indemnify the Employer for and against all claims and proceedings for or on account of infringement of any patent rights, design, trademark or name or other protected rights in respect of any constructional plant, machine, work or material used or in connection with the Works.		Item			
	"Or equal approved" in relation to propriety item or specified element of the works					
C	The term "or equal approved" shall mean alternative which in terms of performance, durability and fitness for use can achieve the level at least equivalent to the item or element of work specified. The onus to verify such equivalence shall rest with the contractor. Approval to include such alternatives shall be at the sole discretion of the Employer's Representative and unless stated in writing otherwise should only be on the basis of equivalent as outlined above.		Item			
				To Collection €		

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	The term "with"					
A	Where the term "with" is used in item headings and descriptions in this bill of quantities (eg. "fixed with 2 nr hiliti bolts") it will be understood to mean "including" unless otherwise stated		Item			
	Measurements					
B	Notwithstanding anything shown on the drawings, the Contractor shall check all dimensions on site before putting work in hand, and shall be responsible for the dimensional coordination of all parts of the work.		Item			
	Temporary works					
C	The term "temporary works" shall mean all temporary works of every kind required in or about the construction, completion, and maintenance of the works; it shall include temporary works to support and ensure the stability of the partially completed works and of adjoining structures and lands, as well as such matters as trench shoring, scaffolding, propping, working platforms, gangways, access stairs and landings.		Item			
D	The Contractor shall appoint an approved, competent Temporary Works Designer who shall take overall design responsibility for the stability of the partially completed permanent works and of adjoining structures and lands during the envisaged construction process and, further the Contractor shall employ a suitably qualified site engineer; both shall liaise with each other and with the Project Supervisor Design Process and Project Supervisor Construction Stage, all in accordance with the HSA Guidelines to Safety, Health and Welfare at Work (Construction) Regulations 2006.		Item			
E	The Contractor shall submit with his tender a method statement detailing his proposals for the temporary works. The Contractor is required to submit full design calculations with his tender.		Item			
F	The Contractor is to assume full liability for the design and execution of all temporary works in connection with this project.		Item			
				To Collection €		

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	Restrictions and Obligations					
	Obligations and Restrictions Imposed by the Employer					
	Limitations of working space					
A	The Contractor will be required to work within the boundaries for the Works as indicated on Architects's Drawing Nos. 101 & 104 unless otherwise approved in writing by the Employer's Representative.		Item			
	Time for completion					
B	The Works are to be completed in 24 months (104 weeks) from contract commencement in accordance with the agreed construction programme including Certificate of Compliance at Completion on Register and including 50 days Programme Contingency (T1 30 days & T2 20 days)		Item			
C	The Contractor is to allow adequate time to source materials, taking into account the requirement to obtain any necessary licenses.		Item			
	Limitations of working hours					
D	Subject to any provision to the contrary contained in the contract working hours are to be 8.00am-6.00pm Monday to Friday. No work is to be carried out on Saturdays, Sundays or Bank Holidays. Overtime shall not be worked without the prior express permission in writing from the Employer's Representative, save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the works in which case the Contractor shall immediately advise the Employer's Representative.		Item			
	Convenience of others					
E	The Contractor shall consult the convenience of anybody who may be affected by the work with regard to the approaches to be used, suitable times for making deliveries and all other matters affecting them.		Item			
	Maintenance of existing services on or over the site					
F	Maintain all the existing live services which cross the site, during the execution of the work.		Item			
				To Collection €		

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	Other work on the Site to be carried out concurrent with the Works by the Employer's Personnel or others concurrently with the Works					
A	Works carried out by others employed by the likes of Electricity Supply Board, An Bord Gais, other Statutory Undertakings/ Public Utilities and the local County Council in relation to power cables, telephone cables, drains and watermains		Item			
	Order of Work					
B	On being granted possession of the site the Contractor shall commence and proceed with the execution of the Works in such order as may be most appropriate and in accordance with the Employer's Representative's direction.		Item			
	Road closure restrictions, alternative route restrictions					
C	The Contractor shall allow here for strict compliance with the relevant authorities requirements in relation to road closure restrictions and alternative route restrictions, including but not limited to the timely application for licenses and paying all fees for same		Item			
	Any other obligations or restrictions					
	Freedom of Information					
	(i) The Client proposes that the following information relating to this tender competition will be made available on request under the Freedom of Information Act 1997:					
D	(a) The name of the Contractor who is awarded the contract, and the total amount of the tender.		Item			
E	(b) To the unsuccessful tenderers the reasons why their tender was rejected.		Item			
F	(ii) The Client undertakes to hold confidential, any information provided by in this tender subject to :		Item			
G	(a) disclosure of the information specified at (i) above as liable for release to the public,		Item			
H	(b) their obligations under law, including the Freedom of Information Act, which came into force on 21st April, 1998,		Item			
				To Collection €		

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A	You are asked to consider if any of the information supplied by you in this tender should not be disclosed because of its sensitivity, (other than that referred to at (i) above). If this is the case, you should, when providing the information, identify same and specify the reasons for its sensitivity. it will consult with you about sensitive information before making a decision on any Freedom of Information request received.		Item			
B	Please make a statement to the effect that information not identified as sensitive (in accordance with the foregoing) may be released in response to a request under the Freedom of Information Act.		Item			
	Personal Protective Equipment					
C	The Contractor is to ensure that sufficient supplies of personal protective equipment, e.g. safety helmets, boots and the like are available for the use of visiting Consultants to the site.		Item			
	Tender expenses					
D	The Employers do not bind themselves to accept the lowest or any tender and no Contractor will be remunerated for any trouble or expense incurred in the preparation of his tender.		Item			
	Tax clearance certificate					
E	It will be a condition for the award of this Contract that a firm must be able to produce promptly a tax clearance certificate (unless he has a sub-contractor's C2 certificate). In the case of a non-resident a statement from the Revenue Commissioners will be required.		Item			
F	Furthermore, it will be the responsibility of the successful Contractor to ensure that any sub-contractor employed by him on this Contract is in possession of either a bona-fide C2 certificate or a tax clearance certificate and to submit such certificate in each case for inspection by this office if required to do so. No claims for increased costs will be entertained in respect of Contractors compliance with this condition.		Item			
				To Collection €		

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	Setting Out					
A	The Contractor shall set out the Works and keep them correct. Opening up and excavation shall not be commenced until the Employer's Representative has inspected the setting out. The checking of any setting out or of any line or level by the Employer's Representative or the named representative (if any) shall not relieve the Contractor of his responsibility for the correctness thereof.		Item			
	Notice to Employer's Representative for Inspection					
B	Before laying drains, filling trenches, pouring reinforced concrete and otherwise proceeding with work that will cover and conceal previous work, the Contractor shall give early notice in writing to the Employer's Representative and shall afford him an opportunity of inspecting the previous work. Approvals given at such inspections will not relieve the Contractor for full responsibility for the quality of the work throughout.		Item			
	Commencement of Work					
C	Inform the Employer's Representative at least five working days before the proposed date for commencement of work on site		Item			
	Commencement Notice (if applicable)					
D	The Contractor is also required to ensure that a Commencement Notice, fully completed, has been submitted to the appropriate Local Authority, not less than 7 days and not more than 21 days before actual commencement on site. Such commencement can be defined as site enablement works. He shall liaise with the Employer's Representative in this matter, where applicable		Item			
E	The Employer's Representative will issue the Commencement Notice to the Local Authority after consultation with the contractor.		Item			
F	The contractor shall take for and compile a Schedule of dilapidation/photographic records in approved format prior to commencement of works on site		Item			
	Request for Certification of Substantial Completion					
G	Give the Employer's Representative at least three weeks notice of the anticipated dates of Substantial Completion of the works		Item			
				To Collection €		

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	Notice to the Quantity Surveyor					
A	Give reasonable notice to the Quantity Surveyor before covering up any work which the Quantity Surveyor may require to be measured		Item			
	Pipe course					
B	Pipe, cable and wire courses shall be laid out by the Contractor as early as practicable for approval by the Employer's Representative and laying or fixing shall not be commenced without such approval.		Item			
C	Existing pipe, cable or wire courses interfered with during the execution of the work shall be reinstated if, when and as required to the Engineer satisfaction.		Item			
	Employer's personnel					
D	Neither the appointment (under Clause 4.3.3 of the Conditions of Contract) nor the actions of a named representative, or other supervisory representative shall in any way affect the responsibility of the Contractor and such named representative/supervisory representative will have no power to authorize variations of any kind.		Item			
	Bond					
E	The Contractor shall obtain from an approved Company or Society registered within the state a Guarantee Bond for the due and proper completion of the Contract and shall pay all premiums and fees required for same. The amount of the Guarantee Bond shall cover a sum equal to 10% of the estimated total value of the work. This Guarantee Bond must be completed within FOURTEEN days of notice being given by the Architect that a Bond is required. No work may be commenced before the Bond is completed. If a delay in completing the Bond results in a delay in the signing of the Contract, the time for completion will not be extended as a result of such delay. The expiry date of the Bond is a minimum of Fifteen months after the date of the issue of the Certificate of Practical Completion. 10% (of contract sum) Performance Bond required for first 12months after substantial completion of project with 5% required for remaining 3months. If a Bond is not required the amount included in the tender for this item will be deducted to determine the Contract Sum. It is essential that the amount included for the Bond be shown separately (Amount to be included for Bond to be inserted in the Summary of the Bills of Quantities and Form of Tender).		Note			
F	Provide a competent Contracts Manager and General Foreman for the duration of the works and for all site management costs.		Item			
				To Collection €		

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	Superintendence					
A	The contractor shall give and provide all necessary personal superintendence during the execution of the Works and for as long thereafter as the Employer's Representative may consider necessary. It shall include person(s) with first class experience in re-furbishment and in new build.		Item			
	Workpeople					
B	None but fully qualified, experienced and competent workpeople shall be employed on the Works and the Contractor shall furnish such evidence as the Employers Representative may require as to the qualifications and competence of any work person. The Employers Representative shall have the power to have dismissed from site any work person who misconducts him/herself or who is incompetent or negligent. The Contractor shall be responsible for keeping all workpeople under his control and within the confines of the site.		Item			
C	Operatives will be required to carry out sample work on site to indicate their expertise. Acceptable operatives should be familiar with and able to handle materials specified and have competence in the various work procedures.		Item			
D	The Contractor, where circumstances dictate, will be required to provide additional training to operatives where their knowledge is lacking. Include for all costs in connection with same.		Item			
	Plant, tools and vehicles					
E	Provide all plant, tools, equipment and vehicles required for the execution of the work. Give the Employer's Representative each week a daily return of the number, type and capacity of all plant, excluding hand tools and scaffolding currently operating on the works.		Item			
F	bringing to site and removing on completion		Item			
G	maintaining on site for the duration of the works		Item			
	Removal of Plant					
H	Plant and scaffolding etc., shall not be removed until ordered by the Employer's Representative and when so ordered it shall be removed expeditiously.		Item			
				To Collection €		

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	Cranage					
A	The Main Contractor shall provide all cranage required. All costs associated with the provision of cranage shall be included in the Tender Sum. The Main Contractor shall be responsible for all temporary works associated with the provision of a crane and gaining access to the building. The Contractor shall include under this heading all costs associated with additional cranage as required upon examination under the Tender Documents. Special cranage requirements for Nominated Sub-Contractors are measured as special attendances within the Bill of Quantities.		Item			
B	Should the Contractor choose to use a tower Crane, it shall be located in a position, which meets the Employer's Representative approval. Additionally, the Contractor should liase with adjoining landowners and statutory authorities for permission to erect the crane(s) in a particular location. All issues of over-sailing and agreements, fees, etc., are deemed included in the Contractors price against this heading.		Item			
C	Should the Contractor choose to use a temporary hoist or hoists, it/they shall be located in location(s) to be agreed with the Employer`s Representative.		Item			
	Scaffolding					
D	The Contractor is required to give a written undertaking to the Employer's Representative that only qualified, experienced and competent Scaffolders will be employed upon the works. The Contractor must furnish the necessary evidence to the Employer's Representative prior to the carrying out of scaffolding works.		Item			
E	Provide as necessary all general scaffolding required for the execution of the works. Include for protective dust proof sheeting on all scaffolding. The scaffolding and the erection of same must comply with BS 5973 and all other associated construction regulations and the like.		Item			
	Site administration and security					
F	Provide for all necessary site administration and for safeguarding the works, materials and plant against damage and theft including providing all necessary watching and lighting for the security of the works and the protecting of the public.		Item			
				To Collection €		

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	Telecoms and others' Fittings or Equipment					
A	The Contractor will be held responsible for any damage caused through his want of proper care to any of the fittings, equipment or machinery installed by Telecoms Utilities or their agents.		Item			
	Access for Employer's Representative to Site and Workshops					
B	The Employer's Representative and any person authorised by him shall at all reasonable times have access to the Works and to the Site and to all workshops and places where work is being prepared or where materials, manufactured articles and machinery are being obtained for the Works, and the Contractor shall afford every facility for and every assistance in or in obtaining the right to such access.		Item			
	Site Records					
C	Provide for the provision and keeping of all statutory records.		Item			
D	Provide for maintaining a full set of site records of all labour, materials and plant used on the works to the approval of the Employer's Representative and a Record of Visitors to site and a daily weather record, recording minimum and maximum temperature and rainfall.		Item			
	Access for Others to site					
E	The Contractor shall if required allow access to the site and building for the staff of Utility Companies or others carrying out telephone and other installations and employed by or acting on behalf of the Employer. He shall also allow access to the Employer's personnel connected with this work.		Item			
	Access for Local Authority Officers to Site					
F	Should a recognised and responsible officer of a Local Authority desire to see the premises, buildings or documents, the Contractor shall refer him to the Employer's Representative.		Item			
	Transport for workpeople					
G	Provide for obtaining an adequate labour force for the works and include for transporting men and women to and from the site if necessary.		Item			
				To Collection €		

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	Protecting the works from inclement weather					
A	Protect the works, materials and plant from the weather and make good any damage caused.		Item			
	Water for the works					
B	Provide an adequate supply of clean fresh water for the works and pay all charges.		Item			
	Lighting and power for the works					
C	Provide all necessary temporary lighting and power for the works and pay all charges.		Item			
	Temporary roads, hardstandings, crossings and similar items					
D	Provide all necessary temporary access roads, tracks, hardstandings, crossings and the like and reinstate surfaces on completion. Obtain approval from the Architect's Representative for the location of temporary entrances, hardstandings and crossings required for the works. Comply with the requirements of the Local Authority regarding their maintenance and reinstatement.		Item			
	Temporary accommodation for the use of the Contractor					
E	Provide temporary sheds, offices, messrooms and sanitary accommodation required for own use and for the use of subcontractors. Comply with the requirements of the factories Acts. Make good and fully reinstate on completion all surfaces, vegetation, grassed areas, etc., disturbed or damaged by the Contractor's operations during the course of the works.		Item			
	Office for Clients Representative and Site Meetings					
F	Provide offices (20 m2 approx) for the Clients Representative, provide a table and chairs and as this office will also be used for meetings, connect services such as electrical and water and sewage, telephone and pay all charges in connection therewith, remove on completion.		Item			
	Toilet Facilities					
G	The Contractor is to provide temporary toilet facilities during the course of the works and these must be kept clean at all times and maintained in a proper manner.		Item			
				To Collection €		

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	Temporary telephones for use of Contractor					
A	Provide temporary telephone facilities for the Contractors own use and for the use of Sub-Contractors; pay all charges in connection therewith.		Item			
	Traffic regulations					
B	Ascertain and comply with Garda Regulations affecting the execution of the works.		Item			
	Maintenance of public and private roads and services					
C	The Contractor shall be responsible for all damage to existing roads, footpaths and carparks caused by his own or sub-contractors' or suppliers' transport to and from the site. Maintain the Employer's existing roads, carparks and footpaths during the Contract and make good any damage caused by site traffic or site operations. Protect all underground services encountered during the execution of the works. The Contractor shall make good any damage caused by his own, by sub-contractor's or by suppliers' operations.		Item			
D	Take adequate precautions to protect persons and property from damage or nuisance caused by water, smoke, dust, rubbish and otherwise. Public roads and paths in the vicinity of the site shall be maintained in a tidy condition for the duration of the contract.		Item			
	Protection of the works					
E	Allow for protecting the whole of the work during the duration of the Contract and clean down and leave perfect on completion. to the satisfaction of the Architect		Item			
	Special Protection					
	The Contractor is advised that special protection will be required for certain elements of the works. The precise method of protection is to be approved by the Engineer prior to commencement of the works. The elements requiring special protection are as follows:-					
F	1. E.S.B and other local authority ducting works		Item			
				To Collection €		

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	Protection Watching and Lighting					
A	The works shall be protected at all times against damage from inclement weather, impact, or any other cause and the Contractor shall provide waterproof and frost-proof coverings, temporary shelters, temporary drainage and any other necessary protection for this purpose. He shall provide also watching and lighting hoarding etc., necessary for the protection of the public and for the protection of the site and the Works against trespass and interference.		Item			
	Storage Sheds/Compounds					
B	Suitable for the use of workmen and the storage of materials shall be provided by the contractor, maintained during the progress of the works and removed on completion of the works. The contractor is to make good any damage caused at his own expense.		Item			
C	Stores for cement and plaster are to be watertight and are to have raised floors to the approval of the Employer's Representative		Item			
	<u>Health and Safety</u>					
	<u>Safety, health and welfare of workpeople</u>					
D	The Contractor shall include for complying with the Safety, Health and Welfare at Work Acts and Regulations current at date of tender.		Item			
E	The Contractor shall in respect of all person and site activities provide for and ensure compliance with all Safety, Health and Welfare Legislation in connection with the Works		Item			
F	The Contractor shall ensure safe practices and methods of work are adopted at all time. The Contractor in that capacity or in his capacity as Project Supervisor Construction Stage shall notify the Employer's Representative in writing prior to the submission of his tender if he considers any requirement relating to the time for carrying out the Works or any part of the Works or the design of the Works or specification of materials render work methods or procedures necessarily hazardous or in any way prevent the Works from being safely carried out. The Contractor shall bear all costs arising out of his failure to give notice of foreseeable matters in this regard.		Item			
				To Collection €		

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A	The Contractor shall be appointed by the Client under a collateral agreement to the main contract as Project Supervisor for the Construction Stage in respect of the project pursuant to the Safety Health and Welfare at Work (Construction) Regulations (Amendment) 2010. The Contractor shall include all costs for the provision of the services of Project Supervisor for the Construction Stage (PSCS) pursuant to Regulations 6 and 29 of the Regulations. All costs in this relation shall be inserted in the Form of Tender		Note			
B	The form of appointment of project supervisor for construction stage shall be as per the current model form issued by the Department of Finance for Public Works Construction Contracts		Item			
C	The Contractor shall include for procuring that the insurance cover required to be obtained and maintained by the Contractor pursuant to the relevant clauses of the Contract shall provide indemnity in respect of any claim for bodily injury or property damage which the Contractor may incur by reason of the performance of the functions and duties of the Project Supervisor for the Construction Stage of the project.		Item			
D	The Contractor shall co-ordinate arrangements among all specialists to ensure the provision, in writing, of such information as is necessary for the Project Supervisor Design Process to complete the Safety File, and shall monitor the implementation of the arrangements and take any necessary corrective action as set out in the Regulations.		Item			
E	The Contractor shall include for providing all necessary information as requested by the Project Supervisor for the Construction Stage to enable the preparation and completion of the Safety File excluding drawings and specifications which shall be provided by the appropriate member of the design team and relevant specialists.		Item			
F	The Contractor shall include for providing assistance to the appropriate member of the design team (and to relevant specialists) in providing the latest issue of construction drawings for inclusion in the Safety File.		Item			
	If not stated elsewhere the minimum information required from the Contractor for the completion of the Safety File includes:					
G	(a) Details of services, plant and the project equipment, which comprise part of the structure, from specialist supply and installation contractors, as well as from statutory bodies and local authorities where appropriate;		Item			
				To Collection €		

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A	(b) Manuals, and where appropriate certificates, produced by specialist contractors and suppliers which outline operating and maintenance procedures and schedules for all plant and equipment; and		Item			
B	(c) Accurate site survey drawings of the as-constructed location and layout of all utilities and services, including drainage, water mains and emergency and fire-fighting systems		Item			
C	The operation of the requirements of the SAFE PASS and CONSTRUCTION SKILLS CERTIFICATES SCHEMES		Item			
D	Safety officers and all safety supervisors, first aiders, inspectors and certifiers required.		Item			
E	Tests and certificates on plant and equipment.		Item			
F	Safety signs and signals.		Item			
G	Provision of personal protective clothing and personal protective equipment.		Item			
H	Provision and maintenance of emergency routes and exits and designated personnel responsible for emergency procedures.		Item			
J	Energy distribution installations		Item			
K	Temporary fire detection and fire fighting systems.		Item			
L	Maintenance of appropriate working conditions and work stations		Item			
M	Provision and maintenance of on site traffic routes.		Item			
N	Provision of first aid equipment and first aid room as appropriate.		Item			
	<u>Disbursements arising from the employment of workpeople</u>					
P	Provide for all costs in respect of labour including costs of, for example		Item			
Q	Social Welfare Acts		Item			
R	Conditions of Employment Acts		Item			
S	Insurance (Intermittent Employment) Act		Item			
T	Holiday (Employees) Act		Item			
U	Redundancy Payments Acts		Item			
				To Collection €		

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A	Industrial Training Acts		Item			
B	Factories Act, Building (Safety, Health and Welfare) Regulations		Item			
C	Travelling Time, Expenses, Fares & Transport		Item			
D	Guaranteed Time		Item			
E	Non-Productive Overtime and Other		Item			
F	Expenses in connection with Overtime		Item			
G	Incentive and Bonus Payments		Item			
H	Sick Pay Disbursement		Item			
J	Country Money		Item			
K	Pensions		Item			
L	Membership of Construction Workers Pension Scheme (CWPS) - Confirmation in writing will be requested from the successful tenderer that all employees are members of this scheme.		Item			
	Contract -Standard Conditions					
	Form, Type and Conditions of Contract					
	Form of Contract					
M	The Conditions of Contract are the The current Public Works Contract for Building Works Designed by the Employer Document Ref. PW-CF1 including the appropriate model forms as issued by the Department Of Finance		Item			
N	The Articles of Agreement, Conditions of Contract, Works Requirements, Pricing Document are exhibited at the offices of the Employer's Representative and Quantity Surveyor at the addresses stated on the fly sheet to the Bills of Quantities.		Item			
P	Period of validity. Tenders must remain open for acceptance for ONE HUNDRED AND EIGHTY DAYS from the date fixed for the submission of tenders; or on expiry of at least 21 days written notice to terminate this tender by the tenderer, whichever is the latest.		Item			
Q	The following clauses in the above mentioned conditions shall apply to this Contract and the Tenderer shall enter in the money column whatever payments he may require to comply with these clauses (except where otherwise instructed).		Item			
				To Collection €		

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	SCHEDULE OF CLAUSE HEADINGS					
A	A schedule of the clause headings of the Conditions of Contract are set out hereunder for pricing :-		Item			
B	1 The Contract		Item			
C	2 The Law		Item			
D	3 Loss, Damage & Injury		Item			
E	4 Management		Item			
F	5 Contractor's Personnel		Item			
G	6 Property		Item			
H	7 The Site		Item			
J	8 Quality, Testing & Defects		Item			
K	9 Time & Completion		Item			
L	10 Claims and Adjustments		Item			
M	11 Payment		Item			
N	12 Termination		Item			
P	13 Disputes		Item			
Q	14 Covid-19 Mandatory Closure		Item			
R	15. Price Variation		Item			
	Nothing in the Specification nor the Bills of Quantities shall override, modify or affect in any way whatsoever, the application or interpretation of that which is contained in the Conditions of Contract.					
	Schedule					
	<u>Documents</u>					
	The Works Requirements are:-					
	Cotter & Naessens Architects					
S	Refer Volume A Works Requirements Folder		Item			
	Punch Consulting Engineers					
T	Refer Volume A Works Requirements Folder		Item			
				To Collection €		

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	Matt O' Mahony & Associates Services Engineers					
A	Refer Volume A Works Requirements Folder		Item			
	Carrig Conservation					
B	Refer Volume A Works Requirements Folder		Item			
	The Pricing Documents are:					
C	Bills of Quantities dated September 2026		Item			
	Insurance					
D	Fatal Accidents Acts, Clause 3, Employers Liability Acts, Workmens Compensation Acts, Insurance (Intermittent Unemployment) Acts and any other Acts that may be in force at the date of tender.		Item			
E	Provide for Liability and Indemnity Insurance for damage to persons and property in accordance with Clause 3 of the Conditions of Contract		Item			
F	Provide All Risk Insurance in accordance with Clause 3 of the conditions of contract (Per HSE Administrative Instructions to Tenderers "All Risks" policy shall be in the joint names of the Health Service Executive - DML and the Contractor and shall cover the value of the contract work)		Item			
G	Insurance of the Works: minimum amount insured for professional fees 12.5% of the Contract Sum (if none stated, 12.5%)		Item			
	Minimum indemnity limits for public liability and employers' liability insurance:					
H	Public liability insurance: € 6,500,000.00 for any one event, but this limit may be on an annual aggregate basis for products liability, collapse, vibration, subsidence, removal and weakening of supports and sudden and accidental pollution.		Item			
J	Employers' liability insurance: € 13,000,000.00 for any one event.		Item			
	Maximum excess for Insurance:					
K	insurance of Works and other Risk Items: € 10,000.00		Item			
L	public liability: € 10,000.00 in respect of property damage only. There shall be no excess for death, injury or illness.		Item			
				To Collection €		

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	permitted exclusions from public liability insurance					
A	loss and damage due to design		Item			
B	Main Contractor Professional Indemnity Insurance is required. Professional Indemnity insurance is to be kept in place for 6 years after Substantial Completion for the Works is certified by the Employer's Representative. The minimum indemnity limit for professional insurance shall be Ç1,750,000 annual aggregate limit. The maximum excess shall to be greater of 2% of Contractor's annual turnover or €5,000.		Item			
C	Professional Indemnity Insurance is required for the Piling Specialist. Professional Indemnity insurance is to be kept in place for 12 years after Substantial Completion for the Works is certified by the Employer's Representative. The minimum indemnity limit for professional insurance shall be Ç6,500,000 annual aggregate limit. The maximum excess shall to be greater of 2% of Contractor's annual turnover or €5,000.		Item			
	<u>Dates for Substantial Completion, Sections, Liquidated Damages, Retention:</u>					
	The Works					
	Date for Substantial Completion (Last day of period starting on the Contract Date):					
D	24 months (104 weeks) from Commencement of Works on Site to Substantial Completion (including 50 days programme contingency - 30 days first threshold & 20 days second threshold)		Item			
	Rate of liquidated damages:					
E	€20,000 per week		Item			
F	Reduction in retention on substantial completion section 50%		Item			
	Early Completion:					
G	The Employer's Representative is required to issue the certificate of Substantial Completion if the Works or a Section reaches Substantial Completion before its Date for Completion.		Item			
	Defects Period:					
H	The initial Defects Period is 1 YEAR from the date of Substantial Completion of the Works		Item			
				To Collection €		

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	Contractor's Documents					
	Programme of operations					
A	The Contractor will, within one week of his tender acceptance submit without delay a properly prepared construction programme in a form to be approved by the Employer's Representative. The programme must clearly and explicitly set forth the sequence of all operations (including those of sub-contractors) and the time limits within which the Contractor proposes that each operation shall be commenced and completed. Upon production of the programme, the Contractor shall distribute copies of the programme to all members of the design team.		Item			
B	The Contractor must keep the construction programme up to date and make copies available to all members of the design team immediately prior to the site meetings. The programme must include, inter alia, actual activity durations against estimated durations together with particulars of labour, materials, plant resources and the like. Copies of the programme must be displayed in the various site offices.		Item			
				To Collection €		

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A	10.0 Programme: General. In addition to the requirements in Clause 4.9 (Programme) of the PW- CF1 Contract any programme submitted by the Contractor under Clause 4.9 (Programme) or 4.10 (Progress Reports) shall in addition to the requirements of this Contract Clause include: Programme to include highlighted critical path; link the Substantial Completion on the critical path for the Substantial Completion of the Works and which Sections are non-critical to same; clearly identify the programme contingency referred to in Clause 9.4.2 of the PW-CF1 Contract; clearly describe the preparation time for obtaining relevant Consents and permissions for making all services connections; Show the design, design compliance check, RCS (Received Contractors Submittals) submittal preparation time, RCS submittal date, time for response to RCS comments and requests for further information, element/material/equipment order time, element/material/equipment construction start time. This can be provided in the form of a register (excel format or similar as described below); be submitted in Microsoft Project (or Microsoft Project compatible), Asta Powerproject and PDF formats in a GANNT format; take account of all constraints included in the WR and the PW-CF1 Contract; Provide a monthly drone video recording Site progress of a minimum of 5 minutes including any works outside of the Areas Made Available by the Employer together with 30 Nr. still pictures; and The Contractor will be required to prepare and submit detailed testing & commissioning and steady state running programmes to the ER for review 6 months prior to the commencement of testing and commissioning activities on each Section. The Contractor shall maintain an up to date detailed programme/register (in excel format or similar) of all RCS to be submitted, actually submitted dates and current status to the ER for review on a weekly basis. The programme/ register shall include the proposed submission dates for the packages which shall include an eight week look ahead for upcoming RCS submissions.		Item			
	Online File Sharing Platform					
B	The Contractor is to provide and maintain a proven web-based collaborative Common Data Environment system, to be approved by the Employers Representative at Tender Stage. (Note: This should be a recognised, publicly available system and not the Contractors own in-house document management system). All as per Section 900 of Architects Preliminaries.		Item			
				To Collection €		

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	Method Statement					
A	The Contractor is required to submit with his tender a properly prepared method statement in a standard format. The method statement must clearly demonstrate the contractor's proposed sequence and method of working together with the planned resources required to execute the works.		Item			
	Safety Statement					
B	The Contractor, in accordance with Safety, Health and Welfare at Work Act 1989, is required to submit with his tender a copy of the company's Safety Statement.		Item			
	<u>Handover Documentation</u>					
C	The Contractor shall be required to include for an approved system of "key handover certificates" for electrical, mechanical, etc., for record purposes		Item			
	<u>All statutory obligations</u>					
D	The Contractor shall comply in all respects with all statutory obligations or regulations in carrying out the works.		Item			
	<u>Record Drawings</u>					
E	The tender sum will include for the provision of record drawings and manuals as specified to the Employer's Representative. Should the Contractor refuse or neglect to provide the record drawings and manuals the Employer may employ and pay other persons to provide such drawings and manuals and all costs incurred in connection therewith shall be recoverable from the Contractor or may be deducted from any money due or to become due to him, irrespective of the Contractor's tender price for same.		Item			
	<u>Protection</u>					
F	Provide for protecting the completed works from any damage whatsoever including providing, maintaining and subsequently removing any necessary protective casings or the like (including those required for each different floor covering) sufficient to leave the works clean, undamaged and fit for immediate occupation to the satisfaction of the Employer's Representative.		Item			
				To Collection €		

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	Building Control (Ammendment) Regulations 2014					
A	The project shall be carried out in Compliance with Building Control (Ammendment) Regulations 2014 and the contractor is to include here for all costs associated with same.		Item			
	Architect's BCAR Requirements					
B	Contractor to include for all costs associated with and complying with the Cotter & Naessens Architects Preliminary Inspection Plan / BCAR Requirements . If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here.		Item			
	Civil & Structural BCAR Requirements					
C	Contractor to include for all costs associated with and complying with the Punch Consulting Engineers Preliminary Inspection Plan Structural/ Civil Engineer BCAR Requirements . If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here.		Item			
	M&E BCAR Requirements					
D	Contractor to include for all costs associated with and complying with the Matt O' Mahony & Associates M&E Preliminary Inspection Plan / BCAR Requirements . If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here.		Item			
	Carrig Conservation BCAR Requirements					
E	Contractor to include for all costs associated with and complying with the Carrig Conservation Preliminary Inspection Plan / BCAR Requirements . If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here.		Item			
	Architect's Testing Requirements					
F	Contractor to include for all costs associated with and complying with Cotter & Naessens Architect's Specification & Contractor Testing Requirements. If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here. If a conflict arises with any of the items listed elsewhere then the Architect's Architectural Tender Specification & Contractor Testing Requirements shall take precedent.		Item			
				To Collection €		

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	Civil & Structural Testing Requirements					
A	Contractor to include for all costs associated with and complying with the Punch Consulting Engineer's Civil / Structural Tender Specification & Contractor Testing Requirements. If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here. If a conflict arises with any of the items listed elsewhere then the Engineer's Civil / Structural Tender Specification & Contractor Testing Requirements shall take precedent.		Item			
	M&E Testing Requirements					
B	Contractor to include for all costs associated with and complying with the Matt O' Mahony & Associate's Mechanical & Electrical Tender Specification Testing & Compliance Requirements. If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here. If a conflict arises with any of the items listed elsewhere then the Services Engineer's Mechanical & Electrical Tender Specification Testing & Compliance Requirement shall take precedent.		Item			
	Carrig Conservation Testing Requirements					
C	Contractor to include for all costs associated with and complying with the Carrig Conservation Tender Specification Testing & Compliance Requirements. If not priced elsewhere in the Pricing Document then the contractor is to include the full cost here. If a conflict arises with any of the items listed elsewhere then the Services Engineer's Mechanical & Electrical Tender Specification Testing & Compliance Requirement shall take precedent.		Item			
				To Collection €		

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	Destructive Testing At any stage on the contract or in the lead-up to Substantial Completion, the Employer, may at its discretion and without prejudice, request a full review and destructive testing of all fire safety elements of the building, including but not limited to passive fire stopping and live fire safety systems. The Tenderer is to include in their Tender bid, the Works associated with destructive testing required to be undertaken, in order for the reviews by the Employer's Personnel to take place. The Contractor is to include for the site personnel attendances during the destructive testing, carry-out required opening-up of areas for reviews to take place and making-good following completion. The areas requiring opening-up Works will be dictated by the Employer's Representative / Employer's Personnel. The Contractor is to include in their Tender bid for the following opening-up Works, making-good Works and site attendances before, during and after the Employer's Personnel reviews, in respect of the following:					
A	The Contractor, their Specialists and sub-contractors are to brief the Employer's Personnel in relation to the process undertaken to achieve compliance with the Part B of the Building Regulations and provide a copy of the installation log registers completed by the Contractor's sub-contractors responsible for fire safety;		Item			
B	Contractor to provide adequate and safe means of access to areas at high level for access and review by others;		Item			
C	Contractor to assist in removing and reinstating ceiling tiles (all types) where required by the Employer's Personnel;		Item			
D	Contractor is to include for opening-up and making-good 10 No. areas of plasterboard ceilings where required by the Employer's Personnel;		Item			
E	Contractor is to include for opening-up and making-good 10 No. areas of walls where required by the Employer's Personnel;		Item			
F	Contractor is to include for opening-up and making-good 10 No. areas of surface-mounted Electrical terminations (i.e. sockets, data points, switches, hold-open devices etc.);		Item			
G	Contractor is to include for opening-up and making-good 10 No. areas of electrical trunking/containment throughout the buildings where required by the Employer's Personnel;		Item			
				To Collection €		

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A	Contractor is to include for opening-up and making-good 10 No. areas of floor finishes where required by the Employer's Personnel;		Item			
B	Contractor is to include for opening-up and making-good 15 No. areas of the facade (external leaf) in firstopping locations where required by the Employer's Personnel;		Item			
C	The Contractor is advised where Defects are found during the above reviews and destructive testing, the Employer's Personnel may at their discretion, and without restriction, request further areas to be opened and reinstated at the cost of the Contractor.		Item			
	Dust Monitoring & Dust Control					
D	The Contractor shall make full provision for dust monitoring and dust control/management for the full duration of the works, at a level appropriate for the extent and location of the works, to the satisfaction of the ER and the Design Team PSDP. This shall include a) Installation, operation, and maintenance of dust monitoring equipment in accordance with Client Requirements, all relevant EPA Guidance and relevant Health and Safety Authority (HSA) requirements. b) Continuous monitoring of particulate matter at locations agreed with the ER, with results available for inspection at all times. c) Weekly co-ordination meetings with the ER d) Implementation of dust suppression and containment measures in line with infection prevention and control guidance for construction works. e) Contractor shall be responsible for Dust Management which, inter alia, will include damping down works, covering skips, hoovering, use of water on cutting tools etc. to best practice. f) Immediate corrective action where monitoring indicates exceedance of agreed limits or where works may impact patient, staff, or visitor safety. All associated equipment, labour, reporting, and mitigation measures (including multiple dust monitors in multiple locations relating to the scope and location of the works at any particular time) shall be deemed included within the Contractor's tendered price. For tendering purposes, Contractor is to provide a minimum 8 No. Dust Monitors for the duration of the works, including relocation of monitors as required, to appropriate locations as the works proceed.		Item			
	Environmental - Construction Impacts					
E	Tree felling and clearing of vegetation shall take place outside of the bird nesting season.					
				To Collection €		

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A	The Main Contractor shall ensure that any excavated material stockpiled on site during construction shall be held in a manner such as to ensure that no silt or run-off from these stockpiles enters any watercourse		Item			
B	The Main Contractor shall ensure that surface water from the development is free from herbicides, pesticides, fertilisers and other substances which could have a harmful effect on the environment.		Item			
C	For the course of the construction, a silt fence with a filter drain connected to the new network will also be constructed in compliance with CIRIA C532 - Control of water pollution from construction sites. The silt fence will prevent the movement of sediment from site and divert excess volumes of water in the event of heavy rainfall from entering neighbouring residential properties during construction. It will be lined with a suitable high strength geotextile fabric. Daily visual inspection of silt control will be carried out for the duration of the works. No earth works will be undertaken in prolonged heavy weather conditions.		Item			
	Lighting					
D	The light trespass into windows of residential properties shall be limited to a max of 10Ev (vertical luminance in lux) before 23:00 hours and 2Ev after 23:00 hours		Item			
	Air Permeability					
	Per Section 570 of Architects Preliminaries					
E	East Block (Maximum 3 m3/hr.m2)		Item			
F	West Block (Maximum 3 m3/hr.m2)		Item			
G	Convent (Maximum 5 m3/hr.m2)		Item			
	Acoustic Testing					
	Per Section 575 of Architects Preliminaries					
H	East Block		Item			
J	West Block		Item			
K	Convent		Item			
				To Collection €		

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	Building Energy Rating (BER)					
	Per Section 595 of Architects Preliminaries & Service Engineers Specification					
	The contractor is required to provide a final Building Energy Rating or BER energy label with accompanying advisory report for each building. The rating is issued on a scale from A to G. BERs are published by independent assessors registered with SEAI in accordance with a Code of Practice published by SEAI					
A	DVR - Commercial NEAP BER		Item			
B	West Block - (BER for each apartment)	32	No			
	Thermal Imaging					
	Thermal Imaging Surveys					
	Prior to commencement of the works, the Contractor shall allow for an independent Thermal Imaging Specialist to carry out a Thermal Imaging survey and documentation of same in full accordance with the Architects Thermal Imaging Specification to the following Blocks:					
C	Convent		Item			
	Post upgrade works, the Contractor's Thermal Imaging Specialist shall carry out a second survey to assess the effectiveness of the newly installed works; confirm compliance with project targets and regulatory standards; conduct a written report of comparative analysis between pre and post upgrade results. All in full accordance with the Architects Air Tightness Specification to the following Blocks:					
D	Convent		Item			
E	East Block		Item			
F	West Block		Item			
G	The Contractor to include for any further re-tests required due to any test results failing to meet the Project and regulatory requirements and inclusive of any associated Contractors remediation works.		Item			
	Carr & Naessens Architects Preliminaries 10/09/2026					
H	If not priced above Contractor to include here for any additional items associated with and complying with Carr & Naessens Architects Preliminaries Document 10/09/2026					
				To Collection €		

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	Standing Conciliator					
A	Allow the RESERVED SUM of thirty thousand Euro (€40,000.00) to cover the Contractors share (50%), of the fee for the Standing Conciliator in the performance of their duties, in accordance with Clause 13.2 Where there is a Standing Conciliator, the Standing Conciliator shall be named in Schedule Part 3C and appointed prior to the Starting Date. The amount allowed in the Pricing Document by the Employer [which may be adjusted prior to the issue of the Letter of Acceptance where the Standing Conciliator has been identified and their fee has been agreed] will be the entire amount recoupable by the Contractor for their share of the Standing Conciliators fee for performance of Standing Conciliator duties, other than conciliating a dispute referred under clause 13.2. The Standing Conciliators fees shall be shared equally between the Parties for the purposes of clauses 13.2. Appointment of a conciliator or Standing Conciliator for the purposes of conciliating a dispute referred under clause 13.2 of the Conditions of Contract should be executed using Model Form: MF1.16 - Appointment of Conciliator. Appointment of a Standing Conciliator for performance of Standing Conciliator duties, other than conciliating a dispute referred under clause 13.2 should be executed using Model Form: MF1.18 Appointment of Standing Conciliator.	1	Item	40,000.00	40,000	00
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EL (06-08) PRELIMINARIES & INSURANCES (Option 1 - No Phasing) **Carried to Summary**				**40,000**	**00**

CONVENT BUILDING

DOMESTIC VIOLENCE REFUGE (DVR)

	Description	Qty	Unit	Rate	€	c
	DEMOLITIONS & ALTERATIONS					
	INFORMATION					
A	This element of the work has been measured from Archhitect's Drawing Nos. 110 - 113 inclusive 150, 151 together with Architect Specification, and Structural Engineer's Drawing 02-XX-DR-S-4000		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
E	Contractors to are to visit the site and ascertain the best method of removing all debris from the building. The Contractor shall include for all temporary platforms / scaffolding etc. required, in order to remove the debris safely from the existing Convent. All temporary structures shall be approved and signed off by the Structural Engineer		Note			
F	For detailed description of workmanship and materials refer to specification		Note			
G	Contractors should note that the following works are to be carried out at Basement / Ground, First and Second Floor and Roof levels all as per Architects Drawings		Note			
H	Contractors are strongly advised to visit the site before pricing the following sections of the work and ascertain for themselves the extent of the work, means of access and diposal of debris. Arranging suitable times for site visits may be achieved by contacting Anne-Marie Cooke, Cotter & Naessens Architects, 28 South Mall, Cork, T12 X6CP, Phone: +353 (0)21 4847123, email: acooke@ccnarchitects.net.		Note			
J	Contractors attention is drawn to aspects of the demolition work in this contract which represent a Medium to High Risk with respect to the Safety Health and Welfare at Work (Construction) (Amendement) Regulations 2010		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Contractors to include here for crack monitoring to be installed to the retained convent building. Newly exposed junctions shall be temporarily weathered immediately following demolition. All per Consveration Architect's Specification		Item			
B	Contractor rates to include for removing all debris off site to an approved recycling facility.		Item			
C	Contractor rates to include for all necessary temporary propping.		Item			
D	Contractor rates to include for all necessary repairs with lime mortar to existing render to walls after removal of redundent fixings, including all necessary trial removal in the presence of the Conservation Consultant, all per Conservation Architect Specification 3.3		Item			
	Conservation					
E	Contractors include for all operatives to receive Heritage Awareness Training delivered as part of their site induction - this will include site-specific training on the significance and the sensitivities of the work. All per Conservation Architect Specification 2.3		Item			
F	Contractors include for complying with all Supervision & Personnel and Materials & Workmanship, etc. requirements noted Conservation Architect Specification 2.4 to 2.9 inclusive.		Item			
	Methodology for Recording of Materials & Fabric					
G	Contractor to include for carefully photographed before and after any removal works are carried out of all historic fabric which is loose or identified for temporary removal. Also any wall, floor, and ceiling finishes must be carefully photographed before and after any structural investigation works are carried out. This should be accompanied by a simple record sheet. All to the satisfaction of the Conservation Architect and per their Specification 2.11.2 & 2.11.3		Item			
	Storage Of Items					
H	Contractors to include in their rates for storage of all items to be salavged, all to the satisfaction of the Conservation Architect and per their Specification 2.11.4		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Protection of Historic Fabric					
	The historic fabric of the structure shall be protected from accidental damage during the course of the works, all per Conservation Architect's Specification 2.10					
A	All external and internal historic elements shall be protected by the provision of one or a combination of the following: sheet hoarding, industrial bubble wrap, corrugated cardboard, edge board card protectors (similarly used to protect corners on pallets) and u-shaped foam edge protectors		Item			
	Significant features identified for protection include:					
B	Bell Tower		Item			
C	Projecting porch to south facade		Item			
D	Terrazzo flooring to the entrance porch, entrance hall, main corridor, and stair halls		Item			
E	Stairs, including existing finish, treads, risers, nosings, handrails etc.		Item			
F	Plasterwork to ground floor reception rooms, walls & ceilings		Item			
G	Plasterwork, including corncing to internal ceilings		Item			
H	Plasterwork to Internal Walls		Item			
J	Doorsets, all per Conservation Architect's Specification 2.10.2		Item			
K	Windows		Item			
L	Fireplaces per Conservation Architect's Specification 2.10.3 and 4.14.1		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Asbestos Products (Also refer to Asbestos Survey Report contained in Information Pack)					
A	Where asbestos is known to be present in an area on which work is to be carried out as part of this project, the procedures for dealing with it are set out in the tender documentation. Where the tender documentation do not provide for the presence of asbestos and the Contractors encounters any material suspected of containing it - or where asbestos is found or suspected to be present in areas not identified in the tender documents - work shall be immediately suspended in its vicinty and no other work shall be carried out which might expose either the contractors personnel or third parties to contact with the suspect material or of releasing it into the environment. The Employer's Representative shall be informed immediately and their instructions awaited. If any of the material has been disturbed, the area shall be sealed off and the advise of the Health & Safety Authority obtained on the treatment required for personnel who may have been in contact with it. Work on asbestos containing materials shall be carried out in accordance with the appropriate legislation and regulations and with the instructions of the Health & Safety Authority		Note			
	The following works must be carried out by licensed asbestos removal contractors The following work consists of the careful removal, handling, bagging and disposal off site to a licensed treatment plant, of asbestos containing materials. This work shall be carried out in accordance with the "Code of Practice for Removal of Asbestos" material. The Contractor will also later provide written confirmation to the Employer's Representative with regard to the safe disposal of all materials off site:					
B	Allow for complete monitoring of all areas identified as containing asbestos, before and after removal of asbestos materials		Item			
C	Heatpads to dining room sink and external sink		Item			
D	Splashbacks to the sinks in the pantry and washroom of the Chapel		Item			
E	Cement board debris in the purple toilet on the ground floor of the building		Item			
F	Floor Finish Room EXG-02 on the ground floor of the building		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Biological Growth					
	Biological growth shall be carefully removed by hand taking care not to disturb surrounding historic fabric all per Conservation Architect's Specification 3.1, to;					
A	Existing Convent Facade		Item			
B	Existing Convent Roofs		Item			
	Carefully take down entirely demolish avoiding damage to the adjacent historic fabric of remaining canvent building, and remove all debris off site to an approved recycling facility the following					
C	Allow for the removal off site of all remaining loose furniture, chairs, desks, shelving, kitchen equipment/cookers, rubbish etc. which remains within existing Convent Building.		Item			
D	Contractors attention is drawn to aspects of the demolition work in this contract which represent a Medium to High Risk with respect to the Safety Health and Welfare at Work (construction)b Regulations 1995		Note			
E	The following consists of demolition of attached buildings at isolated locations, together with removal of existing floor slab, grubbing up all foundations, foothpaths and disconnection of all services. Before commencement of these works the contractor must submit to the Architect / Engineer for their approval a Method Statement detailing the sequence / phasing of the works including commencement date and duration of the works. Tendering contracts will be deemed to have included in their rates for all works deemed neccessary in carrying out each work item to the entire satisfaction of the Architect / Engineer, and per Conservation Architect's Specification 2.11		Note			
F	Carefully demolish existing attached structure having flat roof structure size overall 15.815m long x 8.555m wide, basement to parapet wall level approx 7.00m high, composed of reinforced concrete / masonary walls, basement walls, windows, doors, M&E Fittings including sanitary ware, fitted furniture, internal concrete staircase, attached external canopy (5.50m x 4.00m x 3.00m high), include for hacking up concrete basement floor slab and hardcore sub base under, rising walls, reinforced concrete columns foundations, reinforced concrete suspended floor slab, grubbing up and sealing off exposed drainage etc. and disconnection of all over and underground services as required (Laundary Extension with Boiler House at Basement Level per Architects Drawings 110, 111, 150 & 151)		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Extra over for backfilling basement after demolition in selected imported graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers. Granular Fill in accordance with SR21 Annex E. 2. >250mm	263	m3			
B	Ditto attached chapel structure having pitched slate roof structure size overall 17.36m long x 13.175m wide, Ground to ridge level approx 10.00m high, composed of concrete / masonary walls, windows, doors, M&E fitting, include for hacking up concrete floor slab and hardcore sub base under, rising walls, reinforced concrete columns foundations, grubbing up and sealing off exposed drainage etc. and disconnection of all over and underground services as required (Items to be salvaged taken elsewhwere) (Chapel extension per Architects Drawings 110, 111, 150 & 151)		Item			
C	Ditto attached structure having flat roof structure at roof level, size overall 3.80m long x 5.00m wide, convent roof level to structure roof level approx 3.00m high, Take down to main flat roof level, composed of concrete / masonary walls, windows, doors, M&E fitting, include for and disconnection of all services as required (Stair Access To Roof per Architects Drawings 113, 150 & 151)		Item			
D	Ditto attached external Chimney overall 1.8m long x 0.50m wide x 18.00m high over Basement to West Elevation of Convent, include for grubing up reinforced concrete foundations etc complete, (Item 07 per Architects Drawings 110 - 113, 150 & 151 and Specification C90/110D)		Item			
E	Ditto attached 3no. internal Chimneys varing widths x approx 15.00m high within Convent, include for grubing up reinforced concrete foundations, etc. complete, (Item 07 per Architects Drawings 110 - 113, 150 & 151 and Specification C90/110D)		Item			
F	Ope in concrete floor slab after removal existing chimney to be infilled with 200mm reinforced concrete slab on MD50 metal decking with A252 mesh. H10 bars to be dowelled into existing slab in decking troughs all per Engineer's drawing 02-03-DR-S-1004 (6 locations)	11	m2			
G	Remove existing flat roof finish to main convent roof, including all existing upstands, flashings, insulation, etc complete, expose existing concrete roof deck and leave ready to recieve new insulated roof finish (elsewhere measured), etc. complete, (Item 08 per Architects Drawings 113 and Specification C20/120E & Conservation Architect's Specification section 3.5)	258	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Ditto to 2no. smaller flat roof sections to rear of convent at lower level, all as before (Ditto)	50	m2			
B	Ditto to porch flat roof to front of convent at lower level, all as before (Ditto)	10	m2			
C	Carefully remove statue and plinth from parapet at high level. Include for all necessary repairs / repointing to parapet capping to match existing after removal of statue and plinth. (Item 09 per Architects Drawings 113 and Specification C90/150G & Conservation Architect's Specification section 3.9.1)		Item			
D	Carefully remove statue and plinth from porch roof. Include for all necessary repairs / repointing to capping to match existing after removal of statue and plinth. (Per Architects Drawings 150 and Specification C90/140A & Conservation Architect's Specification section 3.9.1)		Item			
	Items to be Salvaged					
	Prior to demolition of existing Chapel, the following items are to be carefully taken down and salvaged, all per Conservation Architect's Specification & Architectural Record Chapel & Sacristy Annex Documents & Architects Drawing 110 and Specification C20/511					
	Items to be carefully removed and transferred to the alternative accommodation agreed with the Local Authority in compliance with the planning condition. (Contractor to allow relocating to new location up to 3 hours drive distance from site)					
E	Chapel Altar		Item			
	Items to be carefully removed and made available for salvage to a reputable salvage merchant (Contractor to to provide details to the Design Team), all to be in compliance with the planning conditions.					
F	Stone Steps		Item			
G	Stone Reredos		Item			
H	Stained Glass Windows	10	No.			
J	Timber Screen		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Demolitions					
	Carefully take down and cart off site the following					
	ExIsting Windows (Including associated windowboards, Surrounds, Liners, Cills etc. complete, Approx. Size;					
A	1,350mm wide x 2,300mm high	2	No			
B	1,150mm wide x 2,000mm high	1	No			
C	1,350mm wide x 2,000mm high	1	No			
D	1,100mm wide x 1,800mm high (Including security bars outside window)	1	No			
E	1,000mm wide x 1,800mm high (Including security bars outside window)	1	No			
F	1,000mm wide x 1,800mm high	1	No			
G	1,100mm wide x 1,800mm high	2	No			
H	900mm wide x 1,800mm high	2	No			
J	1,100mm wide x 1,500mm high	2	No			
K	900mm wide x 1,500mm high	2	No			
	Existing External Doorset With Skylight over, (Including associated Surrounds etc. complete, Approx. Size;					
L	1.100mm wide x 3,300mm high	1	No			
	Existing Internal Doorset, including associated frames, ironmonery etc. complete. Approx. Size;					
M	Single Doorset; 1.000mm wide x 2,200mm high	61	No			
N	Carefully remove Architraves associated with above. Approx. 30% to be salvaged to be restored and refixed, remaining to be disposed off site.	635	m			
	Refurbishment of Historic Timber Doorsets & Joinery					
P	A specialist heritage joiner with at least 7 years conservation expertise shall be employed to carry out this element of the work. Contractors to include for same in their rates		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Refurbishment Of Internal Joinery including Doorsets, Skirtings, Picture Rails, Windows, Window Liners etc., all per Conservation Architects Specification 4.10 & Architect's Specification C90-190C					
	Joinery Rates to including for the following, all per Conservation Architect Spec. 3.10.1 & 4.10.3.					
A	All internal historic doors scheduled for retention shall be refurbished and repaired as required using traditional repair techniques		Note			
B	Door joinery shall be repaired in situ, unless approved otherwise by the Design Team.		Note			
C	Sand and clean back all joinery to assess and quantify repairs. Avoid stripping by immersion in caustic soda or other similar 'acid bath' treatments.		Note			
D	Existing hardware shall be carefully removed, retained and refurbished to working order, per spec. 4.10.4		Note			
E	Where timber decay is found the area shall be carefully repaired/replaced as necessary using traditional repair techniques. A policy of minimal intervention must be adopted at all times - avoid unnecessary trimming of original timber		Note			
F	Treat any areas affected by wood-boring insects or rot with an approved insecticide and preservative treatment.		Note			
G	Where necessary salvaged pitch pine shall be introduced to replace missing or damaged timbers		Note			
H	All replacement timber shall faithfully match existing		Note			
J	Bottom rails are vulnerable and here repairs must be durable and have sound mechanical fixings.		Note			
K	Small areas of decay may be built up with an appropriate two-pack systems		Note			
L	Prepare surfaces of existing timber doorsets, including sanding, removal of flaking paint, mouldings etc. and leave ready for new decoration (elsewhere measured), all as per Conservation Architects Specification 4.12.2		Note			
M	Early paint layers may contain lead. Lead-safe working practices shall be employed where early paint layers are present.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Where panels are cracked and are to be retained remove dust and dirt using compressed air and a cloth with solvent. Using a syringe, glue the crack and clamp in position until secure. Re-fix mouldings as per existing		Note			
	Existing Internal Doorsets to be carefully taken down and securely stored and protected on site (per Conservation Architect's spec. 2.10.2), Include for upgrade works, treatments, and refitting. Include for removing existing ironmongery, reinstating Door leaf and frame, seals and leave ready for fitting of new ironmongery (elsewhere measured); Approx. Size;					
B	Single Doorset; 1,170mm wide x 2,100mm high	6	No			
C	Single Doorset; 1,135mm wide x 2,100mm high	3	No			
D	Single Doorset; 950mm wide x 2,100mm high	1	No			
E	Single Doorset; 940mm wide x 2,100mm high	1	No			
F	Single Doorset; 938mm wide x 2,100mm high	2	No			
G	Single Doorset; 921mm wide x 2,100mm high	1	No			
H	Single Doorset; 900mm wide x 2,100mm high	5	No			
J	Single Doorset; 838mm wide x 2,100mm high	1	No			
K	Architraves associated with above	241	m			
	Existing Internal Doorsets to be protected on site (per Conservation Architect's spec. 4.10.2); Approx. Size;					
L	Double Glazed Doorset with glazed fan light over ; 1,600mm wide x 3,000mm high	1	No			
	Extra over upgrading existing timber internal doors to FD30s fire rated doorsets. Include for application of intumescent coatings, application of intumescent paper to panels where required, installation of intumescent seals, upgrade of door ironmongery, appropriate firestop sealing gaps, specialist required for the assessment, upgrade works and insurance backed certification, complete all per Architect's Specification C90-190C and Conservation Architects Specification 4.11					
M	Single Doorset; 1,170mm wide x 2,100mm high	5	No			
N	Single Doorset; 1,135mm wide x 2,100mm high	3	No			
P	Single Doorset; 950mm wide x 2,100mm high	1	No			
Q	Single Doorset; 921mm wide x 2,100mm high	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Single Doorset; 838mm wide x 2,100mm high	1	No			
	Skirtings & Picture Rails					
	Existing Timber joinery, to include skirtings, picture rails to be recorded in situ, carefully removed, safely stored in stable environmental conditions similar to the room from which they have come to avoid warping, and then reinstated in their original positions (elsewhere measured. include for disposing off site any joinery not reused, complete all per Conservation Architect Spec. 4.12.					
B	Timber Skirting	931	m			
C	Timber Picture Rails	931	m			
	Existing skirtings, picture rails shall be repaired where necessary. Sound historic joinery to match may be salvaged for reuse in repairs from areas of the convent that are scheduled for demolition. Where decay is visible the area shall be carefully repaired/replaced using traditional repair techniques. A policy of minimal intervention must be adopted at all times. Open joints shall be caulked with proprietary wood filler and finished to match surrounding timber.Include for all necessary timber treatments, All replacement timber shall faithfully replicate the original detail and design. Splice in new timber (matching in profile and material) with appropriate glue and non-ferrous screw. Refix to Rendered masonry walls all per Architects & consrvation Atchitect's drawings & Specifications.					
D	Timber Skirting	762	m			
E	Timber Picture Rails	762	m			
	Extra over for replacing with matching hardwood Skirting (Profile per Architect's Drawing 560) / Hardwood Picture Rails, include for all necessary, fixings, mastic etc. complete					
F	Timber Skirting	762	m			
G	Timber Picture Rails	762	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Stairs Goings & Risers & Handrails					
	Existing timber Stairs Goings & Risers & Handrails to 2no. concrete Stairs shall be repaired where necessary. Where decay is visible the area shall be carefully repaired/replaced using traditional repair techniques. A policy of minimal intervention must be adopted at all times. Open joints shall be caulked with proprietary wood filler and finished to match surrounding timber. All replacement timber shall faithfully replicate the original detail and design. Splice in new timber (matching in profile and material) with appropriate glue and non-ferrous screw, all per Architects & Conservation Architect's Drawings & Specifications.					
A	Goings	163	m			
B	Risers	163	m			
C	Handrails	82	m			
	Extra over for carefully removing existing timber Stairs Goings & Risers & Handrails to 2no. concrete Stairs, and replacing with matching hardwood Stairs Goings & Risers & Handrails, include for all necessary brackets, fixings, mastic etc. complete					
D	Goings	163	m			
E	Risers	163	m			
F	Handrails	82	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Existing Timber Sash Windows & Liners					
	Existing Timber Sash Windows to be carefully removed and sanded, repaired to working condition, left ready for new decoration, (elsewhere measured). Include for removing existing sealants from the window and gaps between the reveal and timber frame, as well as weight boxes and outer linings shall be caulked using lime mortar or a compound of burnt and boiled linseed oil. Draught-proofing brush strip seals shall be installed to all timber sash windows. Inspect and refurbish all existing window hardware, all seized mechanisms to be dismantled, full cleaning and reassembly followed by lubrication. Windows to be reinstalled to opes (following repair/replacement of window linings) ensuring that. windows are correctly hung, re-balanced and in full working order. Include for all necessary seals, DPC, fixings, timber treatments. Include also for removing existing single pane glass panels and replacing with new Slim double glazing units retrofit to existing timber sash windows. System: HISTOGLASS D10 (3-4-3, 10mm) Insulating glass units to BS EN 1279 and Kitemark certified, thermal insulation U 1.9W/m2K. Include for all necessary seals, linseed oil fore-putty to BS6262, hardwood surrounds, bed glass in butyl and hold in place with non-ferrous sprigs. etc. complete all per Conservation Architect Spec. 3.10. and Architects Specification C90-190B and L40-220. Approx. Window Sizes;					
A	Windows CV WG.01 - WG.06;- 1,350mm wide x 2,200mm high	6	No			
B	Windows CV W1.01 - W1.07 & W1.11 - W1.13;- 1,350mm wide x 2,200mm high	10	No			
C	Windows CV W2 01 - 14;- 650mm wide x 1,600mm high with arched curved window heads	14	No			
D	Windows CV W1 20;- 600mm wide x 2,250mm high with arched curved window heads	1	No			
E	Windows CV WG 08;- 650mm wide x 1,900mm high with arched curved window heads	1	No			
F	Windows CV W2 27;- 550mm wide x 2,000mm high with arched curved window heads	1	No			
G	Windows CV W1.18 & W1.09;- 850mm wide x 1,500mm high	2	No			
H	Windows CV W1 19;- 1,100mm wide x 1,850mm high	1	No			
J	Windows CV W2 24;- 1,100mm wide x 1,100mm high	1	No			
K	Windows CV W2.25 & W1.08 & W2.15;- 1,100mm wide x 1,500mm high	3	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Windows CV W2.16;- 850mm wide x 1,100mm high	1	No			
B	Windows CV W2 18 - 22;- 1,350mm wide x 1,500mm high	5	No			
C	Windows CV W2.17 & W2.23 & WG.07;- 850mm wide x 1,200mm high	3	No			
D	Windows CV W1.10 & W1.17;- 850mm wide x 1,600mm high	2	No			
E	Windows CV W1.14;- 1,350mm wide x 1,850mm high	1	No			
F	Windows CV W1.15;- 600mm wide x 1,500mm high	1	No			
G	Windows CV W1.16;- 900mm wide x 1,800mm high	1	No			
	Extra over for removing existing and provide and fixing new matching hardware, include sash fasteners, window lifts, new sash weights, pulley wheels and new sash cords etc. complete, all per Conservation Architect Spec. 3.10. Include also for fitting Sash window restrictors to restrict opening at low level to maximum 90mm, Type to be visually discreet per Architect's spec C90-190B. All to the following windows;					
H	Windows CV WG.01 - WG.06;- 1,350mm wide x 2,200mm high	6	No			
J	Windows CV W1.01 - W1.07 & W1.11 - W1.13;- 1,350mm wide x 2,200mm high	10	No			
K	Windows CV W2 01 - 14;- 650mm wide x 1,600mm high with arched curved window heads	14	No			
L	Windows CV W1 20;- 600mm wide x 2,250mm high with arched curved window heads	1	No			
M	Windows CV WG 08;- 650mm wide x 1,900mm high with arched curved window heads	1	No			
N	Windows CV W2 27;- 550mm wide x 2,000mm high with arched curved window heads	1	No			
P	Windows CV W1.18 & W1.09;- 850mm wide x 1,500mm high	2	No			
Q	Windows CV W1 19;- 1,100mm wide x 1,850mm high	1	No			
R	Windows CV W2 24;- 1,100mm wide x 1,100mm high	1	No			
S	Windows CV W2.25 & W1.08 & W2.15;- 1,100mm wide x 1,500mm high	3	No			
T	Windows CV W2.16;- 850mm wide x 1,100mm high	1	No			
U	Windows CV W2 18 - 22;- 1,350mm wide x 1,500mm high	5	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Windows CV W2.17 & W2.23 & WG.07;- 850mm wide x 1,200mm high	3	No			
B	Windows CV W1.10 & W1.17;- 850mm wide x 1,600mm high	2	No			
C	Windows CV W1.14;- 1,350mm wide x 1,850mm high	1	No			
D	Windows CV W1.15;- 600mm wide x 1,500mm high	1	No			
E	Windows CV W1.16;- 900mm wide x 1,800mm high	1	No			
	Existing Timber Window Liners, and cill board to reveals and heads and base of all windows to be recorded in situ, carefully removed, safely stored in stable environmental conditions similar to the room from which they have come to avoid warping, and then reinstated in their original positions (elsewhere measured. include for disposing off site any joinery not reused, complete all per Conservation Architect Spec. 4.9. To following windows;					
F	Windows CV WG.01 - WG.06;- 1,350mm wide x 2,200mm high	6	No			
G	Windows CV W1.01 - W1.07 & W1.11 - W1.13;- 1,350mm wide x 2,200mm high	10	No			
H	Windows CV W2 01 - 14;- 650mm wide x 1,600mm high with arched curved window heads	14	No			
J	Windows CV W1 20;- 600mm wide x 2,250mm high with arched curved window heads	1	No			
K	Windows CV WG 08;- 650mm wide x 1,900mm high with arched curved window heads	1	No			
L	Windows CV W2 27;- 550mm wide x 2,000mm high with arched curved window heads	1	No			
M	Windows CV W1.18 & W1.09;- 850mm wide x 1,500mm high	2	No			
N	Windows CV W1 19;- 1,100mm wide x 1,850mm high	1	No			
P	Windows CV W2 24;- 1,100mm wide x 1,100mm high	1	No			
Q	Windows CV W2.25 & W1.08 & W2.15;- 1,100mm wide x 1,500mm high	3	No			
R	Windows CV W2.16;- 850mm wide x 1,100mm high	1	No			
S	Windows CV W2 18 - 22;- 1,350mm wide x 1,500mm high	5	No			
T	Windows CV W2.17 & W2.23 & WG.07;- 850mm wide x 1,200mm high	3	No			
U	Windows CV W1.10 & W1.17;- 850mm wide x 1,600mm high	2	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Windows CV W1.14;- 1,350mm wide x 1,850mm high	1	No			
B	Windows CV W1.15;- 600mm wide x 1,500mm high	1	No			
C	Windows CV W1.16;- 900mm wide x 1,800mm high	1	No			
	Existing Timber Window Liners and Cill Boards shall be sanded & repaired where necessary. Sound historic joinery to match may be salvaged for reuse in repairs from areas of the convent that are scheduled for demolition. Where decay is visible the area shall be carefully repaired/replaced using traditional repair techniques. A policy of minimal intervention must be adopted at all times. Open joints shall be caulked with proprietary wood filler and finished to match surrounding timber. Include for all necessary timber treatment. All replacement timber shall faithfully replicate the original detail and design. Splice in new timber (matching in profile and material) with appropriate glue and non-ferrous screw. Refix to Rendered masonry walls all per Architects & consrvation Atchitect's drawings & Specifications. to following windows;					
D	Windows CV WG.01 - WG.06;- 1,350mm wide x 2,200mm high	6	No			
E	Windows CV W1.01 - W1.07 & W1.11 - W1.13;- 1,350mm wide x 2,200mm high	10	No			
F	Windows CV W2 01 - 14;- 650mm wide x 1,600mm high with arched curved window heads	14	No			
G	Windows CV W1 20;- 600mm wide x 2,250mm high with arched curved window heads	1	No			
H	Windows CV WG 08;- 650mm wide x 1,900mm high with arched curved window heads	1	No			
J	Windows CV W2 27;- 550mm wide x 2,000mm high with arched curved window heads	1	No			
K	Windows CV W1.18 & W1.09;- 850mm wide x 1,500mm high	2	No			
L	Windows CV W1 19;- 1,100mm wide x 1,850mm high	1	No			
M	Windows CV W2 24;- 1,100mm wide x 1,100mm high	1	No			
N	Windows CV W2.25 & W1.08 & W2.15;- 1,100mm wide x 1,500mm high	3	No			
P	Windows CV W2.16;- 850mm wide x 1,100mm high	1	No			
Q	Windows CV W2 18 - 22;- 1,350mm wide x 1,500mm high	5	No			
R	Windows CV W2.17 & W2.23 & WG.07;- 850mm wide x 1,200mm high	3	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Windows CV W1.10 & W1.17;- 850mm wide x 1,600mm high	2	No			
B	Windows CV W1.14;- 1,350mm wide x 1,850mm high	1	No			
C	Windows CV W1.15;- 600mm wide x 1,500mm high	1	No			
D	Windows CV W1.16;- 900mm wide x 1,800mm high	1	No			
	Extra over for;					
E	Replacement of complete window cill boards with new well-seasoned pressured treated accoya (acetylated timber) or equivalent alternative matching timber cill board, Include for all necessary grounds, mastic, seals etc. complete all per Conservation Architect's Specification 3.10. < 300mm wide.	55	m			
	Existing Timber External Doorset					
	Existing Timber Doorset to be carefully sanded, repaired to working condition in situ (however, where necessary, and only on approval of the Design Team, leafs maybe removed to produce a satisfactory join and permanent repair). Leave ready for new decoration, (elsewhere measured). Include for removing existing sealants from the doorset and gaps between the reveal and timber frame, shall be caulked using lime mortar or a compound of burnt and boiled linseed oil. Draught-proofing brush strip seals shall be installed to door leaf. Inspect and refurbish all existing doorset hardware, all seized mechanisms to be dismantled, full cleaning and reassembly followed by lubrication. Doors to be reinstalled to opes. Include for all necessary seals, DPC, fixings and all necessary timber treatment. Include also for removing existing single pane glass panels and replacing with new Slim double glazing units retrofit to existing timber sash windows. System: HISTOGLASS D10 (4-4-3, 10mm), Insulating glass units to BS EN 1279 and Kitemark certified, thermal insulation U 1.9W/m2K. Include 4mm toughened / tempered safety glass inner pane, and for all necessary seals, linseed oil fore-putty to BS6262, hardwood surrounds, bed glass in butyl and hold in place with non-ferrous sprigs. etc. complete all per Conservation Architect Spec. 3.12. and Architects Drawing 605 & Specification C90-150C and L40-220. Approx. Doorset Sizes;					
F	Main Entrance Glazed Double Doorset, Including surrounding Glazed Screen, Type HE;- Overall Size 2,430mm wide x 2,900mm high	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting					
	Spot prime any areas of exposed bare wood. Two coats Dulux Trade Diamond Eggshell Finish. Including for preparing existing surface for new paint etc. complete all as per Architect Specification M60					
A	Existing Panal Door Leaves > 300mm wide	86	m2			
B	Ditto < 300mm wide	125	m			
C	Existing Glazed Door Leaves with Fanlight over. > 300mm wide	10	m2			
D	Ditto < 300mm wide	16	m			
E	Door Frames & Architraves > 300mm girth	50	m2			
F	Existing Timber Skirting < 300mm	762	m			
G	Existing Timber Picture Rails < 300mm	762	m			
H	Window Liners > 300mm girth	122	m2			
J	Cill Boards < 300mm girth	55	m			
K	Sash Windows, including frames, rails, beading etc. complete. (Both sides of windows measured seperately)	197	m2			
L	Extermal Glazed Doorset & Glazed Screen, including frames, rails, beading etc. complete. (Both sides of Doorset measured seperately)	15	m2			
M	Stair Handrails < 300mm girth	82	m			
N	Stair Risers < 300mm	163	m			
P	Stair Goings < 300mm	163	m			
	General Demolitions					
	Ground Floor Slab (For new Radon all per Architect's drawing 110 & Specification C20/120F)					
Q	Saw cut existing concrete ground floor slab	66	m			
R	Hack up sections of existing concrete floor slab and remove, include for full reinstatement after installation of radon sumps and vent pipes (elsewhere measured). Leave ready for new floor finishes. (6 locations)	8	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Install 6no sumps and 33m of venting outlet pipe and all necessary fitting, bends etc. (6 locations) below existing floor level, included for backfilling with suitable imported compacted hardcore.		Item			
B	Form ope in existing external rising wall for passage of new radon vent pipe. seal ope after.	6	No.			
	Ground Floor Slab (For new Risng Walls - elsewhere measured) - 2 locations					
C	Saw cut existing concrete ground floor slab	12	m			
D	Hack up sections of existing concrete floor slab and remove.	4	m2			
	Carefully take down and remove existing lintels over opes with existing external masonary wall approx. 550mm thick, include for installing new reinforced concrete lintels (per Structural Engineer's Detail H on Drawing 02-XX-DR-S-4000) and make good reveals. Window / Door Opening width;					
E	1,350mm wide	22	No			
F	650mm wide	15	No			
G	600mm wide	2	No			
H	550mm wide	1	No			
J	850mm wide	8	No			
K	1,100mm wide	5	No			
L	900mm wide	1	No			
	Carefully take down and remove existing lintels over opes with existing Internal masonary wall approx. 400mm thick, include for installing new reinforced concrete lintels (per Structural Engineer's Detail H on Drawing 02-XX-DR-S-4000) and make good reveals, Door Opening width;					
M	1,000mm wide	25	No			
N	2,000mm wide	4	No			
	Take down and remove section of existing external masonary wall approx. 550mm thick, include for installing new reinforced concrete lintels (per Structural Engineer's Detail H on Drawing 02-XX-DR-S-4000) and make good reveals, to form new ope, size;					
P	2,800mm wide x 3,800mm high (Ground level)	2	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	2,600mm wide x 3,800mm high (Ground level)	1	No			
B	1,100mm wide x 2,400mm high (Ground level)	2	No			
C	1,100mm wide x 2,400mm high (Upper Floorsl)	2	No			
D	1,550mm wide x 2,400mm high (Ground level)	2	No			
E	Enlarge existing window ope 1.20m wide x 1.80m high to form new door ope size 1.20m wide x 2.40m high, make good all as per Engineers drawings	3	No			
F	Take down and remove section of existing external masonary parapet wall approx. 400mm thick, take down to roof level.	54	m2			
G	Extra over Ditto for carefull removing existing concrete capping to parapet, carefull saw cut and remove inner section of capping in order to reduce width of capping by approx 100mm. Store on site for later reuse.	38	m			
H	Saw cut existing external wall	71	m			
	Take down and remove section of existing internal masonary wall approx. 400mm thick, include for installing new reinforced concrete lintels (per Structural Engineer's Detail H on Drawing 02-XX-DR-S-4000) and make good reveals, to form new ope, size;					
J	1,150mm wide x 2,100mm high (Ground level)	3	No			
K	1,100mm wide x 2,100mm high (Ground level)	2	No			
L	2,000mm wide x 2,100mm high (Ground level)	1	No			
M	800mm wide x 2,100mm high (Ground level)	2	No			
N	2,400mm wide x 2,100mm high (Ground level)	1	No			
P	1,150mm wide x 2,100mm high (1st Floor level)	2	No			
Q	800mm wide x 2,100mm high (1st Floor level)	2	No			
R	1,100mm wide x 2,100mm high (1st Floor level)	4	No			
S	1,150mm wide x 2,100mm high (2nd Floor level)	1	No			
T	800mm wide x 2,100mm high (2nd Floor level)	2	No			
U	1,100mm wide x 2,100mm high (2nd Floor level)	4	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Take down and remove sections of existing internal masonary walls approx. 200mm thick; leave walls, floors, ceilings levels ready to recieve new finishes.					
A	Partition Walls at Ground Floor level	105	m2			
B	Partition Walls at 1st Floor level	124	m2			
C	Partition Walls at 2nd Floor level	159	m2			
D	Saw cut existing internal walls	326	m			
	Take down and remove section of existing suspended reinforced concrete floor slab, include for all necessary saw cutting etc complete, to form new ope, size;					
E	2,700mm long x 800mm wide	2	No			
F	1,700mm long x 800mm wide	2	No			
	Take down and remove section of existing suspended reinforced concrete roof deck, include for all necessary saw cutting etc complete, to form new ope, size;					
G	2,700mm long x 800mm wide	1	No			
H	1,700mm long x 800mm wide	1	No			
	Existing Concrete Cills					
J	Inspect and make good as required existing concrete cills and DPC's	60	m			
K	Extra over last for replacing existing with matching concrete cill & DPC etc. inclusive of disposal of existing off site to a licensed tip, carefully make good all round to match existing	60	m			
	Existing Plaster / Render					
	Carefully Hack off existing plaster / render off existing masonary wall and repoint where neccessary. Following the removal of render and the carrying out of any necessary masonry repairs and raking and repointing of existing masonary walls. Leave face of wall ready to recieve new plaster / render (elsewhere measured), Include for all necessary saw cutting etc. complete, all per Conservation Architect's specification section 3.17 & 4.5					
	Outer Face of External Wall					
L	> 300mm wide	964	m2			
M	< 300mm wide	279	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Inner Face of Parapet Wall at roof level					
A	> 300mm wide	95	m2			
	Inner Face of External Wall					
B	> 300mm wide	1341	m2			
C	< 300mm wide	279	m			
	Face of Internal Wall (Isolated Locations)					
D	> 300mm wide	320	m2			
E	< 300mm wide	43	m			
	Carefully takedown existing ceilings and expose soffit of reinforced concrete floor / roof slab. Leave soffit ready to recieve new ceilings (elsewhere measured), Include for all necessary saw cutting etc. complete, all per Conservation Architect's specification					
	Ceilings					
F	> 300mm wide	788	m2			
	Carefully takeup existing floor finishes (Carpet / Vinyl / Timber) and leave concrete floor slabs ready to recieve new floor finishess (elsewhere measured). complete, all per Conservation Architect's specification					
	Floor Finishes (Skirtings taken elsewhere)					
G	> 300mm wide	811	m2			
	Repair works to existing 450mm deep one-way spanning reinforced concrete ribbed suspended floor slab all per Engineer's Drawing 02-01-DR-S-1002 and Specification					
H	Allow for localized repair of suspended slab with high strength Cementitious grout, where honeycombing of concrete exists	203	m2			
	Existing Services, include for fire stopping all opes left in floors / walls after removal of existing M&E Sevices, etc. complete all per Architect's drawings and Specification C20- 120B & 120D					
J	Strip out and remove all existing Electrical Wirings, Fittings, Electrical Fires, Lights, etc. complete		Item			
K	Strip out and remove all existing Mechanical Pipework, Fittings, Boilers etc. complete		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Removal of all Existing Sanitary Ware, include for disconnecting and sealing existing waste outlets					
A	WHB, including taps, wastes, etc.	24	No			
B	External WHB, including taps, wastes, etc.	1	No			
C	Bath, including taps, wastes, etc.	3	No			
D	Shower Tray, including, mixer, surrounds, curtains, wastes, etc.	3	No			
E	WC, including wastes, etc.	7	No			
F	Associated fixed bathroom fittings, inlcuding towel rails, toilet roll holders etc.		Item			
	Fittings					
G	Remove existing stair lift, serving ground to 2nd floor, including associated, rails, chair, fittings, controls, wiring, etc. complete. Include for any neccessary reinstatment to walls, floor stairs and leave ready for new finishes (elsewhere measured)		Item			
H	Remove existing Radiators. including associted pipework. Include for any neccessary reinstatment to walls, floor and leave ready for new finishes (elsewhere measured). All per Architect's Spec C20-120A	44	No			
	Furniture					
J	Remove existing kitchen furniture & equipment. Any openings left in walls and floors to be infilled with an appropriate sealant with 60min fire resistant properties as per fire strategy. All per Architect's Spec C20-120C (4no. locations)		Item			
	<u>Build up ope in existing external masonary wall, approx 550mm thick, after removal of window (elsewhere measured) include for cut tooth and bond to existing masonary all to the satisfaction of the Structural Engineer and Architect's Specification C90-110A</u>					
	Window Ope. Size;					
K	1,000mm wide x 2,000mm high	1	No			
L	1,150mm wide x 2,000mm high	3	No			
M	1,150mm wide x 1,600mm high	4	No			
N	850mm wide x 1,300mm high	3	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	850mm wide x 1,600mm high	2	No			
	Door Ope. Size;					
B	1,000mm wide x 2,400mm high	3	No			
	Build up ope in existing internal masonary wall, approx 400mm thick, after removal of window (elsewhere measured) include for cut tooth and bond to existing masonary all to the satisfaction of the Structural Engineer and Architect's Specification C90-110A					
	Door Ope. Size;					
C	1,000mm wide x 2,400mm high	30	No			
	Alteration Works Entrance Porch					
	Works to the projecting entrance porch, all per Conservation Architect's Specification 3.9 and Architect's Specification C90-110B					
D	Paint and coverings are removed from Porch Structure, including roof, parapet, coping, columns, ceiling and cornice to soffit, etc.		Item			
E	Allow for carefully taking down and replacement of 2m2 of existing soffit. Include for all necessary saw cutting etc. complete. New to match existing.		Item			
F	Remove existing roof finish and flashing, expose existing concrete deck and leave ready for new roof finish (elsewhere measured)	10	m3			
G	Stone steps to be refurbished in accordance with conservation best practice. Open joints to be repointed with lime base mortar. Allow for light cleaning of stone (e.g. Doff cleaning).		Item			
H	Repair and fill all existing cracks to columns, ceilings, cornicing, parapets, coping, etc. and leave ready for new decoration (elsewhere measured)		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Terrazzo Repairs					
	Existing Terrazzo to entrance hall, corridor, and stair halls to be protected in the course of the works, with localized repairs all per Conservation Architect's Specification 4.2 and Architect's Specification C90-150A					
A	A masonry repair specialist with conservation experience must be engaged by the contractor to carry out the following works. Prior to commencing, trial finish panels for each type of repair required will be satisfactorily carried out for approval of the Conservation consultant and design team		Item			
B	Protect existing Terrazzo throughout the course of the works		Item			
C	Cleaning of existing terrazzo surfaces to remove dirt, stains, and contaminants	87	m2			
D	Repairing cracks, chips, and areas of delamination	77	m2			
E	Allow for Replacement of existing damaged Terrazzo sections, with new Terrazzo to match existing in numerous locations.	10	m2			
F	Application of a breathable sealant to protect and enhance the terrazzo's appearance.	87	m2			
	Ceilings					
	Existing Ceilings and Cornicing to be protected in the course of the works, with some areas of repair all per Conservation Architect's Specification 4.3 and Architect's Specification C90-150D					
G	A plaster specialist with conservation experience must be engaged by the contractor to carry out the following works.		Item			
H	Protect existing Ceilings and Cornicing throughout the course of the works	50	m2			
J	The plaster must be covered with hessian and allowed to dry out slowly over a period of three weeks. The drying temperature should be controlled and drying must not be forced by introducing excessive heating.	50	m2			
K	Wall paper and paint finishes should only be applied to fully dry plaster. Lime based paint, a lime wash or casein paint should be used as a decorative finish.	50	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	2No. Existing Stairs					
	2no Existing Stairs to be protected in the course of the works, with some areas of repair all per Conservation Architect's Specification 4.13 and Architect's Specification C90-110E & 150B					
A	2no. existing staircases shall be protected from foot traffic for the duration of the works by provision of a layer of dry hessian, soft board and 13mm plywood sheeting with sufficient projection to avoid damage to the nosing. Handrails and balusters shall be encased ensuring no fixings attach to or place pressure on the historic fabric. Decorative finish to integral moulded capping of concrete balustrade to be carefully protected.		Item			
B	Concrete repairs: A masonry repair specialist with conservation experience must be engaged by the contractor to carry out the following works.		Item			
C	Cleaning of existing surfaces to remove dirt, stains, contaminants, and inappropriate or failed finishes.		Item			
D	Repairing of cracks, chips, and areas of damage with appropriate compatible repair mortar.		Item			
E	Application of a compatible sealant to protect and enhance the appearance of the decorative finish to the integral moulded capping of the concrete balustrade		Item			
F	Top flight of Stair 1 within the existing building is to be extended by 2no. additional treads to achieve the new FFL of raised access floor on third floor. Treads and risers should match dimensions of existing steps to ensure a compliance with TGD Part K & Part M.		Item			
G	Handrails & Balustrades should be extended and match the aesthetic of existing situation.		Item			
	Repair works to existing Rainwater Goods all per Conservation Architect's Specification 3.7 and Architect's Specification C20-120D					
H	Carefully take down all existing rainwater goods salvaging sound historic cast-iron elements for refurbishment and reuse. Sound historic cast-iron elements to match may be salvaged for reuse in repairs from areas of the convent that are scheduled for demolition		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Refurbishment and repainting of historic cast-iron rainwater goods shall be carried out using a proprietary, conservation-grade paint system suitable for ferrous metals, comprising primer, intermediate and finish coats, applied in accordance with the manufacturers instructions. Lead-safe working practices shall be employed where early paint layers are present		Item			
	Reinstall existing sound historic cast-iron rainwater goods to be re-fixed in the location of the original rainwater downpipes. include for fitting on spacers, all necessary fixings, seals etc. complete.					
B	Downpipes	122	m			
C	Bends	10	No			
D	Shoes	16	No			
E	Branches	13	No			
F	Hoppers	16	No			
	Extra over for replacing existing historic cast-iron rainwater goods with matching new cast iron rainwater goods. Include for all necessary fixings, seals, paintworks etc. complete.					
G	Downpipes	73	m			
H	Bends	6	No			
J	Shoes	10	No			
K	Branches	8	No			
L	Hoppers	10	No			
	Repair works to existing Bell Tower & Bell all per Conservation Architect's Specification 3.4 and Architect's Specification C90-200					
	All Masonary to Bell Tower (External and Internal Including Roof and Cross)					
M	Full rake and repoint with lime mortarl per Conservation Architect's Specification 3.16	81	m2			
N	Removal of leached deposits and light cleaning	81	m2			
P	Localised masonry repairs per specification 3.14	81	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Removal of all Staining to Masonry including those due to Non-Ferrous Metal Corrosion, all per Conservation Architect's Specification 3.4.2.2 & 3.15	81	m2			
	Bell					
B	Carefully take down bell for repairs and cleaning and refix after, all to the satisfaction of the Architect.		Item			
C	Allow for cleaning of bell including corrosion removal, all per Conservation Architect's Specification 3.4.2.2		Item			
D	Allow for replacement of existing timber beam, include for new bell fixings, including rods, bolts, etc complete. Securely fix new replacement beam in bell tower.		Item			
E	Replace existing bell rope with new matching bell rope		Item			
	Lightning Strips					
F	Existing lightning strips fixed to the bell tower. Allow for replacement of lightning strips and new non-metallic DC clips/fixings. Fixings to be, where possible, to existing locations to avoid damage to the fabric. Make good around new fixings.		Item			
	<u>Existing External Window / Door Heads</u>					
	Labour and material in carefully removing and disposing off site to a licensed tip existing lintel in external masonary wall; include for temporary propping as required to Engineers Approval. Supply and install 100 x 225mm deep precast concrete lintel to BS 8500-2 (exposure class XC3 and XC4) bedded in gauged mortar (1:1:6) and bearing 150mm either side of ope on Grade C28/35 concrete padstones; 75mm deep dry pack mortar between top of beam and underside of masonry wall. Inclusive of all associated saw cutting, reinstatment, installing new DPC, making good to existing masonary as necessary to match existing					
G	500mm wide external wall	70	m			
	<u>Repair works to existing Sills all per Conservation Architect's Specification 3.11</u>					
H	Remove paint from window sills	65	m			
J	Rake out and repoint any cracks and failed joints, leave ready to receive new decoration (elsewhere measured)	65	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extra over last for replacing existing concrete sill & DPC etc. inclusive of disposal of existing off site to a licensed tip, carefully make good all round to match existing	65	m			
	Repair works to existing Parapet Coping all per Conservation Architect's Specification 3.6.1					
B	Remove paint from Coping	76	m			
C	Rake out and repoint all joints, leave ready to receive new decoration (elsewhere measured)	76	m			
D	Extra over for installing new lead capping over the existing coping stones, carefully detailed in accordance with best practice. Allow for new lead capping to the existing parapet footprint of structure scheduled to be retained. Lead wrapping to be fitted over coping and secured; Girth 600mm - 750mm	76	m			
E	Extra over for forming neat 90deg corners	14	No			
F	Ditto Ends	8	No			
	Wall Finishes Internally					
G	Allow for making good to existing internal retained plaster wall (after removal of services)		Item			
H	Allow for removal of existing paint to Internal walls prior to decoration	1385	m2			
J	Allow for repair of hairline cracks, prepare walls for painting (elsewhere measured)	1385	m2			
	Ceiling Finishes					
K	Allow for lightly cleaning, removal of flaking paint, filling in of hairline cracks and prepare existing ceiling all as per specification, leave ready for new decoration.	50	m2			
L	Ditto cornice		Item			
	Fireplace, all per Conservation Architect's Specification 4.14.1					
M	Allow for cleaning down and polishing existing fireplace including grout repair to tiles as required		Item			
N	Allow for replacing existing backing plate and reinstate fire inset		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Allow for sealing existing chimney, all to the satisfaction of the Architect.		Item			
B	Remove existing stove, make good fireplace.		Item			
	Crack Stitching					
C	Allow for stitching crack in external masonary wall all per Engineer's Drawing	80	m			
D	Allow for stitching crack in internal masonary wall all per Engineer's Drawing	65	m			
	Chases					
	Holes; mortices, chases and the like for concealed electrical conduit, fittings & accessories on existing plastered masonary walls; make good to match existing in;					
E	150mm x 50mm rebated chase	78	No			
F	40mm x 50mm deep chase from high level; average chase length of 5.00m	78	No.			
G	Make good wall chases in existing plasterwork to match existing	54	m2			
	Form or cut existing concrete floor to trace existing services include for making good to match existing after instalation of services.					
	Overall;;					
H	4.00m long x 2.5m wide x 300mm deep	4	No.			
	Boxing out Vertical Drops					
	Boxing around services drops next to existing plastered masonary walls consisting of one layer of 12.5mm plasterboard to outer face. Fixing: as recommended by manufacturer. Finishing: Taped and skim coat plaster. Primer/ Sealer: 1 coat of Gyproc Drywall Primer or equivalent. Skim coat finish. Include for all necessary Metal beads/ stops recommended by board manufacturer for reinforcement of all external angles and edges Include also for all necessay softwood framework and insulation.					
J	200 x 200 x 3000mm high	20	No			
K	Ditto horizontally 200 x 200 x 3000mm long	20	No			
L	150 x 150 x 3000mm high vertical box outs	15	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	One undercoat and 2 coats Dulux Professional Steriguard or equivalent paint finish					
A	Smooth plaster base > 300mm wide to bulkheads / box outs	62	m2			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Conservation Architect's works requirements					
K	Testing		Item			
L	Surveys		Item			
M	Samples		Item			
N	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/1/1					
Page No. Conv/1/2					
Page No. Conv/1/3					
Page No. Conv/1/4					
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Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. Conv/1/30					
Page No. Conv/1/31					
DEMOLITIONS & ALTERATIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(19) SUBSTRUCTURE					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings together with Architects drawings as per the relevant drawing issue sheets		note			
B	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		note			
C	For detailed description of workmanship and materials the contractor is referred to the works requirement document entitled "Concrete Specification" prepared by the Structural Engineer.		note			
D	For details of ground conditions refer to the Ground Investigation Report and Bore Hole Data included with the tender documentation		note			
E	For details of underground services refer to the Works Requirements		note			
F	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
G	Excavation through improted hardcore fill is to be carefully set aside and stored for re-use or spread and levelled on site where directed by the Engineer		note			
	Vibration Monitoring					
H	Contractors are to allow for all vibration monitoring of adjoining properties and adjoining site boundary walls during demolition and piling works and are to allow here or elsewhere within their tender all all costs associated wiht same all in strict accordance with Engineers Specification		Item			
	Main Contractors Temporary Works Design in structural supports to existing Covent Building					
J	Main Contractors will be required to demonstrate by means of Method Statement to the entire satisfaction of the Architect / Structural Engineer with his own Professional Temporary Works Design Engineer the safe buildability / verocity of his proposed temporary sturctural supports solution	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Temporary Structural Supports to Existing Convent Building					
A	Contractors attention is drawn to their responsibility for maintaining the stability of existing buildings and structures all as per Preliminaries		note			
B	Allow for all temporary support work including supply, erection and later dismantling of any necessary structural steel support framework including all associated concrete pads, bolted / site welded connections, forming opes / pockets through existing concrete walls, permanent retainment to match existing on dismantling of same and all to satisfaction of Structural Engineers and Architect		Item			
	Underpinning Works					
	The following underpinning works to be carried out under existing 500mm thick masonry external wall to existing convent building. These works are to be carried out in consultation and agreement with the Clients Engineers and will be required to be carried out prior to other ground works in this area. These works are located at Grid Line 1 (A - E) per Engineers Drawings FN-DR-S-1000 & 2000 and Specification					
C	General Demolition Works to be carried out in this area is measured in the Demolitions element		note			
D	General bulk excavation works to be carried out to formation level as measured in Prepared Site Element		note			
E	Contractors attention is drawn to aspects of the underpinning works in this contract which represent a Medium to High Risk with respect to the Safety Health and Welfare at Work (Construction) (Amendment) Regulations 2010		note			
F	The following consists of underpinning works to existing foundations under 500mm thick masonry walls to Convent Building as described. Before commencement of these works the contractor must submit to the Architectc / Engineer for their approval a Method Statement detailing the sequence / phasing of the works including commencement date and duration of the works		note			
G	The following work consists of underpinning of existing structures. This work is to be supervised and directed by the Structural Engineer and before commencement the Main Contractor will be required to agree sequence of demolitions etc. with the Structural Engineer		note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Tendering contractors will be deemed to have included in their rates for all works deemed necessary in carrying out each work item to the entire satisfaction of the Architect / Engineer. All rates, where applicable, shall include for necessary making good to finishes disturbed.		note			
B	The Contractors should note that the excavation works in underpinning existing 500mm thick masonary walls are to be carried out in strict accordance with Punch Consulting Engineers Specification / Criterion specifically with regard to vibration and monitoring of entire structure and are to allow here or elsewhere within their tender for all costs associated with same.		Item			
C	Proposed C32/40 mass fill concrete underpinning to existing stone wall foundations to be installed sequentially to prevent undermining of existing wall foundations. Contractors to include in their rates for underpinning to be installed in 1m sections in hit & miss manner, all to the satisfaction of the Structural Engineer.		Item			
D	Underpinning; Proposed C32/40 mass fill concrete underpinning to existing stone wall foundations to be installed sequentially to prevent undermining of existing wall foundations. Underpinning to be installed in 1m sections in hit & miss manner, all as per Engineers Drawing & Specification	14	m			
E	Carefully break out as necessary existing reinforced concrete foundations	14	m			
	Excavation under existing structures; include for all necessary hand digging all as per Engineers Drawings FN-DR-S-1000 & 2000					
F	Maximum depth; 2.00 - 4.00m	69	m3			
	<u>Disposal</u>					
	Keeping the surface of the site and excavations free of					
G	Surface water		Item			
H	Ground water		Item			
	Excavated material					
J	Off site	69	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	In-Situ Concrete					
	Reinforced poured concrete; Grade C12/15 leanmix all as before in					
A	Leanmix underpinning, poured against side of earthworks	69	m3			
B	Prepare and remove any loose material / stone from underside of existing foundations prior to commencement of underpinning works; 500mm wide	14	m			
	Working space; backfill with lean mix concrte Grade C12/15 to Engineers Specification					
	Foundations					
C	Depth 2.00 - 4.00m	40	m2			
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
D	generally		item			
	Excavation					
	Excavation					
	Reduce Levels					
E	depth < or = 2.00m	82	m3			
	Foundation Trenches					
F	depth < or = 2.00m	42	m3			
	Foundation Trenches within existing building (Include for all necessary hand digging)					
G	depth < or = 2.00m	5	m3			
	Foundations (attached pads);					
H	depth < or = 2.00m	23	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Foundations (Lift & Core bases);					
A	depth < or = 2.00m	17	m3			
	Additional excavation below underside of Lift Pit to good bearing strata					
B	Depth 2.00m - 4.00m deep	15	m3			
	Soft Spots					
	Excavate in soft spots where directed; backfill with in-situ concrete grade C16/20 to IS EN 206-1; disposal of excavated material off site; classification of soft spots shall be ascertained by the Engineer and shall not occur due to abuse of formation level					
C	depth < or = 2.00m	20	m3			
	Extra on excavation items for					
	Breaking up existing					
D	Rock	10	m3			
	Extra over excavating trenches irrespective of depth					
E	Excavating around existing services, parallel / next / alongside excavations	30	m			
F	Excavating around existing services, crossing excavations	10	No			
G	Next to existing buildings	42	m2			
	Disposal					
	Water					
H	Surface		Item			
J	Ground		Item			
	Excavated material					
K	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	184	m3			
	Working Space Backfill with imported Annex E					
L	Foundation depth < 2.00m	108	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Filling;					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
	To make up levels					
A	Granular Fill in accordance with SR21 Annex E. 2. >250mm	72	m3			
B	"Annex E of SR21" Backfill to foundation; >250mm	21	m3			
C	Ditto within existing building	2	m3			
	Surface Treatments					
D	60mm thick sand/non-angular granular material blinding laid on barrier	80	m2			
	CONCRETE WORK: In-Situ Concrete					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
E	generally		Item			
	Blinding					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Blinding					
F	Trench fill under strip foundations to good bearing strata	15	m3			
	< or = 150mm thick					
G	poured on or against earth or unblinded hardcore	5	m3			
H	Ditto within existing building	1	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
A	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	12	m3			
B	Ditto within existing building, cast against excavated ground.	2	m3			
C	Foundations (pads); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	9	m3			
D	Foundations (Lift & Core bases); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	3	m3			
E	Beds (Suspended Floor Slab); >150mm thick; reinforced; laid on insulation	18	m3			
F	Lift Pit Walls; >150mm; Reinforced	2	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1 and BS 8500-2.; compressive strength class C30/37; maximum aggregate size 20mm; exposure classes XC1; poured into cavity between blockwork leaves and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification 132 for concrete and Architects specification F30/110					
G	Cavity infill; >150mm	1	m3			
	Reinforced poured concrete; Grade C30/37, Exposure Class XC2/XC4					
	Screed; laid to falls and crossfalls around underfloor heating pipes (elsewhere measured)					
H	<150mm thick: non structural	6	m3			
	CONCRETE WORK: Sundries					
	Designed joints					
	Water bar; PVC centre bulb water bar, nominal 350mm wide concrete walls; all in accordance with the Engineers specification 310					
	Waterstops					
J	horizontally	7	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Waterstop angles					
A	generally	2	nr			
	Isolation Joints (IJ)					
	Perimeter of concrete slab isolation joint; underslab insulation; type: agrement certified for use under ground bearing slabs; Thickness 20 mm; Compressive strength (minimum) 140 kPa at 10% compression; Thermal conductivity (maximum) 0.022 W/(mK);30mm thickal to Architects specification clause E20/215; form 20 x 12mm surface groove in in-situ concrete floor slab, to be filled with two part polysulphide seal; forming joint between floor and wall all in accordance with the Works Requirements and Architects specification clause E20/215					
B	Verticle; Depth 150-300mm	30	m			
	Joints with New and Existing Reinforced Concrete Foundations					
	Provide and install 2no. 400mm long M16 Rebar at 400mm centres with suitable chemical resin, include for all necessary drilling etc complete, all as per Engineers Drawings DR-S-4000 (Detail J)					
C	Reinforced Concrete Strip Foundations to Existing	28	m			
	Surface finishes					
	Powerfloating					
D	horizontally	160	m2			
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to shall comply with BS EN 10080 and BS 4449 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Straight or bent					
E	< 12mm diameter	0.98	t			
F	12 - 25mm diameter	2.8	t			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
A	Horizontal; Strip Foundations	39	m2			
B	Horizontal; Strip Foundations within existing Building	5	m2			
	Reference A393; 3.95 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
C	Horizontal; Suspended Floor Slab	80	m2			
	Reference A142; 400mm laps between all adjoining sheets to Engineers specification					
D	Horizontal; Screed to Underfloor heating pipes	80	m2			
	CONCRETE WORK: Formwork					
	Formwork - Finish to recieve asphalt tanking; all in accordance with the Works Requirements and Structural Engineers specification					
	Sides of Foundations					
	Height 300mm - 500mm					
E	Strip / Pad Foundations	9	m			
	Lift Pit Rising Walls					
	Vertical					
F	4.00 - 6.00m high	9	m2			
	Wrot formwork as described to Engineer's specification to : -					
	Sides of Foundations					
	Height 300mm - 500mm					
G	Strip / Attached Pads	133	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Edges of beds					
	Height < or = 250mm					
A	generally	15	m			
	Kickers					
	Walls					
B	generally	7	m			
	Lift Pit Walls					
	Vertical					
C	> 2.00, high	9	m2			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Rising Walls					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
D	100mm thick	9	m2			
E	215mm thick	39	m2			
	Extra over for					
F	Built next to face of existing building	13	m2			
G	Built within existing building	4	m2			
H	100mm thick (Built within Existing building)	2	m2			
	Labours					
	On blockwork					
J	generally		item			

	Description	Qty	Unit	Rate	€	c
	Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13.5N/mm2 category I; Thermal conductivity (max) 0.12W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 360 and Engineers Specification 355A					
A	215mm thick	29	m2			
	Extra over for					
B	Built next to face of existing building	10	m2			
C	Built within existing building	3	m2			
D	100mm thick (Built within Existing building)	1	m2			
	Labours					
	On blockwork					
E	generally		item			
	Design Joints					
	Joints with Reinforced Concrete Walls / Columns					
	Provide and install flat stainless steel tie, with debonding sleeve @ 450mm centres verticallly & fixed to reinforced concrete wall / column using 8mm stainless steel bolt at 450mm centres, loading capacity 1.20kN/m height. Include also for 10mm thick closed cell polyethylene sealed with mastic pointing both sides, corner chamfer / rebate to Architect's detail and all as per Engineers Drawings 174-177-254 TDM3					
F	215mm blockwork to concrete columns	12	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Forming cavities					
	Full fill cavity insulation to external cavity wall; 150mm wide cavity; WALL TIES: Double triangle type or other equal or equivalent stainless steel wall ties complying with IS EN 845-1:2013 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings; INSULATION: 150mm thick insulation PIR board, product to have BBA Certification, and to be certified to BS EN ISO 9001 Quality Management System, and to BS EN ISO 14001 Environmental Management System. Manufactured to EN 13165, including corner boards and ancillary detail components, comprising a rigid Polyisocyanurate (PIR) core between low emissivity foil facings with engineered HIPS outer skin. The CT/PIR 150mm with a Agrement declared Lambda value of 0.021 W/mK to achieve a U value of 0.13W/m2K for the wall element; Fire class F, all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause F30/150A					
	Between new walls					
A	150mm wide	10	m2			
	Insulation					
	Below slab insulation. to BS EN13165 on Sand Blinding and Gas Resistant Membrane (elsewhere measured). Manufacturer: Unilin XT/PR_UF - Polyisocyanurate (PIR) or equivalent approved insulation for ground supported and suspended floors. Thermal Conductivity: 0.022 W/m-K. Thickness - 100mm and as required to achieve an overall U-Value of 0.15W/m2K for the floor assembly. Compressive Strength: 140kPa. Fire Performance: Euroclass F. Additional Requirements: Fixing: Fit tightly with joints butted, staggered and laid to break bond pattern with no gaps in accordance with manufacturer's written instructions; all in accordance with the Works Requirements and Architects specification clause P10/219					
	Thermal					
B	150mm thick	80	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extruded polystyrene (XPS) insulation. Product certification: New Item: REFER TO SECTION J42/415 - Extruded polystyrene (XPS) insulation. Manufacturer: Kingspan OR Equivalent. Product reference: Greenguard XPS OR Equivalent. Thickness (nominal): To suit full fill cavity, Perimeter of vertical substructure as indicated on Architect's 300 Series drawings. Compressive strength: 300 kPa at 10% compression. - or as specified by Structural Engineers drawings and specification. Thermal conductivity: 0.036 W/(mK). Additional requirements: Water Vapour Resistivity: The boards achieve a resistivity greater than 825 MN.s/g.m, when tested in accordance with EN 12086: 1997. The insulation core of the board to be resistant to attack by mould and microbial growth and not to provide any food value to vermin. Manufactured with a rebated edge. Manufacturer certified to BS / I.S. EN ISO 9001: 2008. All in accordance with manufacturer's written instructions; all in accordance with the Works Requirements and Architects specification clause F30/150A					
A	150mm fixed vertically behind R.C. Lift Pit Walls (elsewhere measured)	9	m2			
B	Ditto; fixed vertically to face of Blockwork Rising walls (elsewhere measured)	66	m2			
C	Ditto within Existing Building	5	m2			
	Insulation (for U/F heating)					
	Floor insulation boards; Polyisocyanurate core between low emissivity foil facings. Total floor U-value max.= 0.035W/ mK. Installed in accordance with the manufacturers written instructions, all as per the Architects specification					
	Thermal					
D	20mm thick	80	m2			

	Description	Qty	Unit	Rate	€	c
	Roofing, Cladding and Waterproofing					
	Radon Barrier					
	Waterproofing/ damp-proofing/ gas-retardant membrane Under slab. To IS EN 15814 + Agrement-certified. Number of layers: As per manufacturers guidelines. Thickness/ gauge: As per manufacturers guidelines. Bonding: Horizontal surfaces loose-laid; vertical surfaces spot-bonded with adhesive. Surfaces to be joined: Clean and dry beyond the full width of the joint. Laps (minimum): Side and end laps, 300 mm with double row tapes - unless otherwise specificed by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Properties: Tensile strength: >600N/50mm. Tear Resistance: >425N. Elongation: <19%. Moisture Vapour Transmission: <0.2 g/m2/day. Water Vapour Resistance: >1024MNsg-1. Radon Gas Transmittance: 17x10-9 m/s-1. Radon Gas Permeability: 7 x 10-12 m2/s. All in accordance with the Works Requirements and Architects specification clause J40/297/A; Seal at joints to architects specification with 150mm laps with adhesive recommended by manufacturer sealed at joints with in accordance with the manufacturer's written instructions					
	Radon Barrier					
	Width > 300mm					
A	Horizontal	80	m2			
	Width < 300mm					
B	Vertical (sealed to face of existing building per Architect's detail 02/300	28	m			
	DPC / Cavity Trays					
	Gas resistant DPCs / Cavity tray; Product to have Agrement Certification, and to meet the following performance characteristics; Material Type: Virgin blend LDPE; Thickness: 500 microns; Radon Permeability: 7.9 x 10-12 m2/ s; Tensile strength >350N/50mm; Weight: 460 g/m2; Tear Resistance >200N; MVTR : <0.3 g/m2/day; all in accordance with the Works Requirements and Architects specification clause J40/140A; Seal at joints to architects specification F30 /360A with 150mm laps fully bonded with adhesive recommended by dpc manufacturer and sealed at joints with in accordance with the manufacturer's written instructions					
C	Width < or = 225mm; horizontal	35	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Width >225mm; To base of blockwork cavity and dressed up, over and down 225mm high blockwork as per architects drawing 337/E/001 ref Radon DPC (1) (overall girth approx.1025mm); fully bonded and sealed to horizontal radon barrier all as before described	20	m2			
B	Extra over for sealed tape in fixing to blockwork	35	m			
	"Monarflex radon resisting membrane RMB 400" top hat units with clips; fully bonded and sealed at joints in accordance with the manufacturer's printed instructions					
	Collars around pipes, standards and the like					
	Diameter					
C	< or = 50mm	10	No			
D	< or = 110mm	5	No			
E	< or = 150mm	5	No			
	Non perforated gas collection pipes; Manufacturer:Contractor to submit proposals; Product to have Agrement Certification, for proposed purpose.; Material: High-density polyethylene (HDPE), non perforated with ring seals joints to BS EN 681-1; Outside diameter size: 110 mm. all in accordance with the Works Requirements and Architects specification clause J21/110 & 340 and installed as per J21/660					
	Pipes					
	110mm diameter					
F	In trenches (Provisional)	10	m			
	Extra over pipes on which they occur for					
G	Bends; 87.5 degrees	2	nr			
H	Radon duct capping detail; at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm	2	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Plastic Depressurisation sumps; Manufacturer: Contractor to submit proposals; Product to have Agrement Certification, and must fulfill the following performance requirements: Material: Medium Density Polyethylene.; Diameter of the open base: 283.5 mm; Overall Depth: 149 mm; Short Term Creep Test: Mean deflection at 480N is 6.96mm; Compression Test Result: Mean deflection at 10,260N = 27.33mm; Ground level Termination: System capping detail, at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm; all in accordance with the Works Requirements and Architects specification clause J21/110 & 370A and installed as per J21/635A					
	Chambers					
A	Sump & Sump Cap-Link	2	nr			
	Tanking					
	Tanking to Lift Walls / Base					
	Tanking - Liquid Product. Prepare and apply GCP Applied Technologies, BITUTHENE LM (E) or equivalent. Material: Bitumen solution. Application temperature: 5-40?. Moisture vapour transmission rate: <2.0 g/m/24 hours. Elongation: 250%. Adhesion to concrete: 880 N/m. Description: A two-component elastomeric liquid applied detailing compound for use with GCP Applied Technologies waterproof membranes for use with 297 B and 290 C as part of an overall waterproofing system, to concrete surfaces, include for wrapping around corners all in accordance with the manufacturers instructions and Architect's Specification J40 297D and Drawing 301					
B	To base of lift pit wall, per Architect's drawing 301, include for all necessary angle fillets etc. complete.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Specialist designed pre-applied waterproof membrane composite sheet. Manufacturer: GCP Applied Technologies or equivalent. High-density polyethylene (HDPE). Third-party certification: BBA Agrement Certificate. Physical properties. Dimensions Width (minimum): 1.17 m. Roll length (minimum): 31 m. Sealant tape:. Adhesion to concrete: 2.88 N/mm. Shear Strength: 14.5 N/mm. Hydrostatic resistance: >70 m. Puncture resistance: 990 N. Third-party certification: NSAI Agrement Certificate. Thickness (minimum): 0.8 mm. Shear Strength: 14.5 N/mm. Hydrostatic resistance: >70 m. Puncture resistance: 445 N. Standard: To IS EN 15814 + Agrement-certified. Joints Surfaces to be joined: Clean and dry beyond the full width of the joint. Laps (minimum): Side and end laps, 300 mm with double row tapes - unless otherwise specified by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate, all in accordance with the manufacturers instructions and Architect's Specification J40 297B					
	To base of lift pit wall, per Architect's drawing 301, include for all necessary angle fillets etc. complete.					
A	Girth > 300mm girth	7	m2			

	Description	Qty	Unit	Rate	€	c
	Post applied Tanking to concrete walls. Description: Specialist designed post-applied waterproof membrane composite sheet for tanking. To be used in conjunction with clause 297/B as required by specialist design proposal. GCP Applied Technologies Bituthene 8000 or equivalent membrane. Third-party certification: NSAI Agrement Certificate. Gas resistant, damp-proof and waterproof membrane. Carrier material: High-density polyethylene (HDPE). Primer: Bituthene Primer S2, or equivalent Number of layers: As per manufacturers guidelines. Thickness/ gauge: 1.5mm. Weight:: 1.49 kg/m2. Water Vapour Transmission: To EN 1931, 105.000 +/- 30% ?= sD/d. watertightness: To EN 1928, at 60 kPa: pass. Static Load Resistance: To EN 12730, ?20: pass. Tensile Strength: To EN 12311-2, ?180 N/50 mm (longitudinal); ?180 N/50 mm (transversal). Reaction to Fire: To EN 13501-1, Class E. Joints Surfaces to be joined: Properly seal all joints with waterstop, joint filler and sealant as required. Bituthene membranes are not intended to function as the primary joint seal. Allow sealants to fully cure. Pre-stril all slab and wall cracks over 1/16 in (1.5mm) wide and all construction and control joints with 9in (230mm) wide sheet membrane strip. Laps (minimum): Side and end laps, 50mm at sides and ends, unless otherwise specified by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Application temperature: -5C to +20C include for wrapping around corners all in accordance with the manufacturers instructions and Architect's Specification J40 297C and Drawing 301 To Lift Pit Wall, per Architect's drawing 301, include for all necessary angle fillets etc. complete.					
A	Girth > 300mm girth	18	m2			

	Description	Qty	Unit	Rate	€	c
	Tanking to Existing Masonary Rising Walls					
	Historic masonry walls. Description: Waterproofing tanking plaster to be applied to base of historic walls (Convent). Manufacturer: Diasen or Equivalent. Product reference: Watstop (A+B+C). CE (EN 1504-2) marked product. Third-party certification: NSAI Agrement Certificate. Material. Epoxy cement waterproofing (water barrier). New Item: Solvent Free. Substrate: Existing historic masonry walls - Use Diathonite Regularization material if surface is very uneven. Application temperature: +5C. Coats: At least 2 coats until the yield specified is achieved. Other requirements: To be applied in accordance with manufacturer's recommendations, include for wrapping around corners all in accordance with the manufacturers instructions and Architect's Specification J40 297F and Drawing 300					
	To Existing Rising Wall, per Architect's drawing 300, include for all necessary angle fillets etc. complete.					
A	Girth > 300mm girth	70	m2			
	Extra over for					
B	Excavating and exposing external face of existing masonary rising walls, clean down and leave face of rising wall ready to receive tanking, (elswhere measured), approx 700mm wide to perimeter of existing Convent building.	99	m			
	Drainage Channels					
	Drainage channel system with 100mm wide grating; Product to conform to the following performance criteria: CE marked and fully certified to Load Class B125 per BS EN 1433:2002; Channel drain system with stainless steel edge rail.; Fall Constant invert; Overall Depth: 100mm; Grating: Ductile iron with high heel protection; Loading grade to BS EN 124: Load class B125; Other requirements: Including all accessories as required per manufacturer's best practice installation - sumps, end caps etc. bedded in haunched concrete overal size 170 x 150mm high including all nessessary formork; all in accordance with the manufacturers instructions and Architects specification and architects drawing					
	Including all drain unions, ends, outlets etc.					
C	overall length 1150mm	3	nr			
D	overall length 2000mm	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	FOUL WATER DRAINAGE					
	Excavation and Earthwork					
	Excavating trenches for pipes not exceeding 250mm nominal size, disposing of surplus excavated material by removing from site					
	Excavations; filling in above beds or coverings with selected imported granular fill as specified, including temporary re-instatement as required					
A	average depth 500 - 1000mm	91	m			
	Extra over excavating trenches irrespective of depth					
B	Within foot print of new build	11	m			
C	Within foot print of existing Convent Building, Include for all necessary, saw cutting, breaking up concrete floor slab, hand digging and reinstatment of concrete floor slab after, leave ready for new floor finish.	39	m			
D	Forming ope in Rising wall of Convent Building for passage of 150mm dia pipe. Include for all necessary excavation and waterproofing etc. complete.	13	No.			
	Beds and Surrounds; Pea Gravel					
	Beds					
E	450 x 100mm to 150mm diameter pipes	91	m			
	Surrounds					
F	450 x 300mm to 150mm diameter pipes	91	m			
	Pipes & Fittings					
	uPVC pipework and fittings to BS 4660 with flexible joints in the running length					
G	150mm nominal diameter	91	m			
	Extra over for					
H	90 deg bends/upstands	15	No			
J	Branches 150mm to 150mm	10	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Pipe Accessories					
	Gully Trap					
A	Gully trap cast into existing concrete floor in proposed Laundry,removable stainless steel grating; one 150mm diameter outlet, include for any extra excavating, reinstatement, etc.	1	No			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/2/1					
Page No. Conv/2/2					
Page No. Conv/2/3					
Page No. Conv/2/4					
Page No. Conv/2/5					
Page No. Conv/2/6					
Page No. Conv/2/7					
Page No. Conv/2/8					
Page No. Conv/2/9					
Page No. Conv/2/10					
Page No. Conv/2/11					
Page No. Conv/2/12					
Page No. Conv/2/13					
Page No. Conv/2/14					
Page No. Conv/2/15					
Page No. Conv/2/16					
Page No. Conv/2/17					
Page No. Conv/2/18					
Page No. Conv/2/19					
Page No. Conv/2/20					
Page No. Conv/2/21					
(19) SUBSTRUCTURE **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(21) EXTERNAL WALLS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings, Engineers drawings 244110-PUNCH-02-FN-DR-S-1000 to 1005, 2000 to 2002, 3000 to 3002 and 4000		Note			
B	The Engineers and Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials see specification		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same.		Note			
	CONCRETE WORK: Precast Concrete					
	Precast concrete units; Contractors choice to submit for approval; Components manufacturer's 'proprietary' concrete; to B.S. 8500-2; building into existing masonary walls, ainclude for all necessary reinstatement, bedding in gauged mortar (1:1:6); as per Engineers specification and Architects detail 02 & 05 in drawings 314 and specification					
	Cills smooth finish; 180mm deep x 80mm high, lengths as per window / door opes with each side to be stepped into reveal; Include for wrapping with all necessary polyethene DPC damp proof courses and / or cavity trays to BS6515. Include for all neccesary insulation, concrete backing etc complete, all as per Architects drawings & specification					
F	Door Threhold 1,100mm wide	1	No			
G	Door Threhold 1,600mm wide	2	No			
	IN-SITU CONCRETE					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
	Walls					
H	>150mm thick: reinforced	21	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extra over for building off top of existing masonary external wall at roof level. Include for preparing top of existing masononary wall to take reinforced concrete wall	3	m			
B	Extra over for casting edge of new reinforced concrete wall up against face of existing external masonary wall. Include for tying into existing masonary wall and for weither tight expansion joint, all to the satisfaction of the Structural Engineer.	23	m			
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
C	nominal size < 12mm	2.1	tonne			
D	nominal size 12 - 25mm	2.1	tonne			
	FORMWORK					
	Wrot formwork as described to Engineer's specification to :-					
	Kickers to:-					
E	Walls	9	m			
	Walls					
F	Vertical > 4.00m high	208	m2			
	Edges of openings					
	Walls					
G	Area of opening not exceeding 1.00m2	2	no			
H	Area of opening 1.00 - 5.00m2	1	no			
	Sundries					
J	Allow for casting in 100mm diameter sleeves through 215mm thick concrete walls for incoming services	4	no			
	Bonding to Other Work					
K	Form Neat Weathertight connection to face of existing masonary wall. Include for all necessary, seals, ties, expansion, etc. complete all to the satisfaction of the Structural Engineer and Architect (2 locations)	26	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	BLOCKWORK & BRICKWORK					
	Brickwork					
	Clay facing brickwork Type A - 'White Brick'. Handmade, fired clay, facing brick with sanded finish. Vandersanden or equivalent, Lima 124A0 or equivalent bricks: to IS EN 771-1. Bricks to be cut on site as required to site brickwork setting out on architectural drawings. Mortar: Lime mortar as section Z21 to IS EN 998-2. Mix: Moderately hydraulic HLM3.5. Bond: Half lap stretcher, Joints Flush. All per Architect's Specification F10-110A					
	Walls					
A	100mm thick	119	m2			
	Labour on Brickwork					
B	Generally		Item			
	Blockwork					
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification					
	Parapet Walls					
C	100mm thick blockwork built off existing masonary wall after demolition of section of existing parapet wall. Include for preparing top of existing wall to recieve new blockwork parapet. All per Architect's drawing 310	52	m2			
D	225mm thick upstand at lift shaft roof level	4	m2			
	Extra over for THERMAL BLOCKWORK; Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13.5N/ mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bond with neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
	100mm thick					
E	<300mm wide	9	m2			
	215mm thick					
F	<300mm wide	3	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Labour on Blockwork					
A	Generally		Item			
	Bonding to Other Work per Engineer's drawing 4012					
B	100mm brickwork tied to face of existing external masonary wall of existing building, Include for all necessary preparing existing wall to recieve new brickwork wall, and also for any necessary reinstatement after. All to the satisfaction of the Engineer and Architect.	26	m			
C	215mm blockwork tied to existing external masonary wall of existing building, Include for all necessary preparing existing wall to recieve new blockwork wall, and also for any necessary reinstatement after. All to the satisfaction of the Engineer and Architect	3	m			
	Bedjoint Reinforcement					
	Provide 3 courses of GBF 35 W60 SC brickforce (or equivalent) reinforcing to horizontal bed joints directly above ope. Extend minimum 750 beyond ope size, all per Engineer's Specification, to;					
D	100mm brickwork	3	m			
	Weep Holes					
	Supply and fit Perpend joint plastics weep holes; Beak weep with reduced front section (beak shaped), transparent, all per Architect's specification and drawings					
E	Fitted through outer leaf immediately above base of cavity, at cavity trays, stepped dpcs, and external openings. 75 mm above top of concrete fill at base of cavity. Spacing (maximum): At not greater than 900 mm centres and not less than two over each opening.	15	m			
	Forming cavities; All Caviity Walls to be tied using suitable S/S wall ties. Ties shall be bedded into the bed joint of brick leaf by not less than 50mm, and shall be spaced in accordance with BS EN 845: Part 1, BS EN 1996 and BS 8000: Part 3. Additional ties shall be provided to sides of openings in accordance with BS EN 1996, as per Engineers & Architect's drawings and Specifications					
	Forming cavities; between new Reinforced Concrete Inner Leaf and Brickwork Outer leaf					
F	150mm wide	115	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Forming cavities; between new Blockwork Inner Leaf and Brickwork Outer leaf					
A	150mm wide	4	m2			
	Forming cavities; between new Blockwork Outer Leaf and Studwall Wall Inner leaf					
B	70mm wide	52	m2			
	Cavity wall insulation. Polyisocyanurate (PIR) foam boards - Partial Fill. Unilin Insulation UK Limited, Thin-R XT/CW (T& G) (1200 x 450 x 100 mm) or Equivalent. To BS EN 13165. Fire performance: Euroclass F. Thermal conductivity (maximum): 0.022 W/m2K. Compressive strength at 10% deformation: >120 KPa. To achieve U-value: : 0.17W/m2K. Composite foil facing. Secure against face of inner leaf. Residual cavity: Clear and unobstructed. All per Architect's drawings and Specification F30-155A					
	To cavity between new Reinforced Concrete Inner Leaf and Brickwork Outer leaf					
C	100mm thick to 150mm wide Cavity	119	m2			
	Extruded polystyrene (XPS) insulation. Product certification: New Item: REFER TO SECTION J42/415 - Extruded polystyrene (XPS) insulation. Manufacturer: Kingspan OR Equivalent. Product reference: Greenguard XPS OR Equivalent. Thickness (nominal): -To suit full fill cavity. Compressive strength: 300 kPa at 10% compression. - OR as specified by Structural Engineers drawings and specification. Thermal conductivity: 0.036 W/(mK). Additional requirements: -Water Vapour Resistivity: The boards achieve a resistivity greater than 825 MN.s/g.m, when tested in accordance with EN 12086: 1997, -The insulation core of the board to be resistant to attack by mould and microbial growth and not to provide any food value to vermin. -Manufactured with a rebated edge, -Manufacturer certified to BS / I.S. EN ISO 9001: 2008. All per Architect's drawing 310 and Specification F30-150A					
	To cavity between new Blockwork Outer Leaf and Studwall Wall Inner leaf					
D	75mm thick 75mm wide Cavity	52	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Horizontal Cavity Closer					
	FPS-911 Rockwool FirePro SP ref SP60 or equivalent Firestop System. Fire rating: 60 minutes. Fixing: Reference SP brackets, Size will fit edge slab to look like panel 100mm thick mineral wool. All in accordance with Manufacturer's Recommendations and all per Architect's Drawings & Specification.					
A	To 150mm wide Cavity, at perimeter of floor slabs and slab Perimeter	22	m			
	Copolymer thermoplastic DPC damp proof courses and / or cavity trays, all per Architects specifications F30					
	Girth > 300mm					
B	Horizontal	5	m2			
	Parapet Capping					
C	Carefully take from store, hoist and bed in position at top of new blockwork parapet wall, existing altered concrete coping, bedded, jointed and pointed all round, include for all necessary fixings, jointing, DPCs etc complete; all as per Architects Drawing 310 and Specification and Conservation Artchitect's Specification.	38	m			
D	Ends	2	No			
E	Mitres / Corners	2	No			
	Extra Over for;					
F	Disposing off site of existing concrete coping and supply and fit new reinforced concrete coping to match existing, all to the satisfaction of the Conservation Architect	38	m			
	Light Steel Framing System (External Wall to Roof Extension)					
G	Contractors to include for Specialist firestopping Design required for the 3rd floor of the convent building to achieve the required fire performance of all elements as shown on the Fire Certificate drawings (refer Background Information) This floor is an SFS wall system with steel structure. In particular - specialist design is required for the wall partitions meeting the underside of the roof all per Architect's Specification P12/165		Item			

	Description	Qty	Unit	Rate	€	c
	Specialist sub-contactor design required for light steel framing system used as infill to primary and secondary structural framing design by the Structural Engineer. To ensure compliance with TGD part A and all relevant standards outlined in Structural Engineers Drawings and Specifications. Stud and track system. Maximum stud depth: 146mm. External finish system: EWI system as specified in clause M21/210 - note thickness of insulation is 130mm. Insulation: Overall system to achieve U-Value of 0.17W/m2K. Thickness of insulation in EWI system is 130mm mineral wool with 100mm PIR Insulation between studs with and including 40mm lining over studs. Submit proposals, product and thermal conductivity to achieve overall U-Value of system. Include methods of fixing frames to the main building structure and means of achieving stability, as necessary. Include also for Plywood overlay: 18mm plywood overlay to structural frame with treated timber grounds fixed within web of steel columns (elsewhere measured) all as shown on architectural drawings and Vapour Control Layer: As per P10 - location as shown on architectural drawings. Include for all necessary fixings, air tightness tape to parmeter and opes, etc. complete, all per Architect's drawings and Specification G10-150.					
A	3350mm high (Includes Parapet)	36	m			
	Extra Over for;					
B	Forming abutments to other finishes	2	No			
C	Angles to Partitions	3	No			
D	Forming circular Window opes 885mm diameter	5	No			
E	Extra over last for 1 layer 15mm thick plywood backing board to reveals of Circular windows	14	m			
	Extra over for;					
F	Breather and waterproofing membranes to achieve the specified performance	119	m2			
G	Suitable Airtightness / Weather resistant Membrance complete, fixed to face stud wall	119	m2			
H	Linings to inner face of stud wall: One layer 12.5 mm plasterboard as clause 404. - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer.	99	m2			
J	Ditto < 300mm wide reveals to Circular Windows approx. 900mm diameter	15	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Stud Wall System (External Wall to Ground Floor)					
	Treated Timber studs, head & sole plate 120 x 44mm, faced both sides 18mm marine grade plywood include for insulation to cavities Insulation: Overall system to achieve U-Value of 0.17W/m2K. Thickness of insulation is 120mm PIR insulation, between studs with and including 40mm lining over studs. Submit proposals, product and thermal conductivity to achieve overall U-Value of system. Include methods of fixing frames to the main building structure and means of achieving stability, as necessary. Include also for Plywood overlay: 18mm plywood overlay to structural frame with treated timber grounds fixed within web of steel columns (elsewhere measured), all as shown on architectural drawings and Vapour Control Layer: As per P10 - location as shown on architectural drawings. Include for all necessary fixings, air tightness tape to parmeter and opes, etc. complete, all per Architect's drawing 317 and Specification					
A	3650mm high (Includes Parapet)	15	m			
	Extra Over for;					
B	Forming abutments to other finishes	2	No			
C	Angles to Partitions	2	No			
D	Forming Door Screen opes 6,200mm wide x 3,000mm high	2	No			
	Extra over for;					
E	Breather and waterproofing membranes to achieve the specified performance per Architect's Spec. H21/130	15	m2			
F	Suitable Airtightness / Weather resistant Membrance complete, fixed to Inner face stud wall per Architect's Spec. H31/261	15	m2			
G	Linings to inner face of stud wall: One layer 12.5 mm plasterboard as clause 404. - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer.	9	m2			
H	Ditto < 300mm wide reveals	25	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
J	Testing		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Surveys		Item			
B	Samples		Item			
C	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/3/1					
Page No. Conv/3/2					
Page No. Conv/3/3					
Page No. Conv/3/4					
Page No. Conv/3/5					
Page No. Conv/3/6					
Page No. Conv/3/7					
Page No. Conv/3/8					
Page No. Conv/3/9					
(21) EXTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(22) INTERNAL WALLS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings and Engineer's drawings		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
	IN-SITU CONCRETE					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
	Walls					
E	>150mm thick: reinforced	7	m3			
F	Extra over for building off top of existing masonary external wall at roof level. Include for preparing top of existing masononary wall to take reinforced concrete wall	9	m			
	Infill between existing Ribbed Floor Slab Troughs and new load bearing blockwork, all as per Engineer's Detail F on Drawing DR-S-4000					
G	215mm wide	1	m3			
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
H	nominal size < 12mm	0.7	tonne			
J	nominal size 12 - 25mm	0.7	tonne			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	FORMWORK					
	Wrot formwork as described to Engineer's specification to :-					
	Edge of Infill					
A	< 300mm Wide	13	m			
B	Ditto cut to profile of underside of existing ribbed floor flab	13	m			
	Kickers to:-					
C	Walls	9	m			
	Walls					
D	Vertical < 4.00m high	63	m2			
E	Ditto <300mm wide	31	m			
	Edges of openings					
	Walls					
F	Area of opening 1.00 - 5.00m2	2	no			
	Sundries					
G	Allow for casting in 100mm diameter sleeves through 215mm thick concrete walls for incoming services	10	no			
	Blockwork Walls					
	Blockwork					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F10 355 and Engineers Specification 355A					
	Walls- Built roof level of existing convent building,					
H	215mm thick built off top of existing masonary wall, include for praring existing masonary wall to take new blockwork.	16	m2			
J	100mm thick	11	m2			

	Description	Qty	Unit	Rate	€	c
	Walls- Built within existing convent building					
A	215mm thick	41	m2			
B	100mm thick	28	m2			
	Ancillaries to Blockwork					
	Lintels					
	Prestressed Concrete lintels; Standard: To IS EN 845-2. Total load deflection is not to exceed span/200. Placement: Bed on mortar used for adjacent work. Prop at not more than 1.2 m centres to prevent displacement during construction. Retain props in position for not less than 14 days or until mortar has matured, whichever is longer. Bearing length (minimum): Minimum 150 mm unless noted otherwise on drawings. All per Engineer's drawings and Specification					
C	215 x 100mm thick	2	m			
D	100 x 100mm thick	2	m			
	Liner gap sealing generally where Walls Meets Underside of Building Structure					
	Fire performance: 60 minutes. Gap width or height (nominal): 12.5 mm - 100mm. Gap filler: Rockwool Firestop 2A or equivalent4. Capping sealant: Rockwool or equivalent Acoustic Intumescent Sealant. Colour: Grey. Product to be installed as per manufacturer's standard tested details. Include for capping sealant., complete all per Architect's drawings and Specification P12/160A in;					
	Between top of wall and underside of existing concrete ribbed floor slab, Include for sealing troughs in ribbed floor slab.					
E	215mm wide	13	m			
F	100mm wide	9	m			
	Between top of wall and underside of lighteweight roof deck					
G	215mm wide	13	m			
H	100mm wide	3	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Design Joints					
	Joints with Reinforced Concrete Walls / Columns					
	Bonding to Other Work					
A	Ancon PPB Debonded wall ties, having one end shot fired to web of steel stanchion, and other end built into 215mm blockwork wall at 450mm vertical centres, as the works proceed.	4	m			
B	215mm Blockwork tied to face of existing internal rendered masonary wall of existing building, Include for all necessary preparing existing rendered wall to recieve new blockwork wall, and also for any necessary reinstatement after. All to the satisfaction of the Engineer and Architect, and per Engineer's drawing 4012	10	m			
C	100mm Blockwork, ditto	39	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/4/1					
Page No. Conv/4/2					
Page No. Conv/4/3					
Page No. Conv/4/4					
(22) INTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(27 & 28) ROOF & FRAME					
	INFORMATION					
A	This element of the work has been measured from Engineers Drawings 244110-PUNCH-02-FN-DR-S-1000 to 1005, 2000 to 2002, 3000 to 3002 and 4000		Note			
B	The Engineers drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
F	The tenderers shall include in their tender breakdown for temporary propping of slabs, all mitre bonded angles, finished and polished ends, edges and soffits; all hangers to have one hour intumescent coating, stainless steel cramps, dowels, secondary steel, expansion or chemical bolts and fixings, cleats, brackets and plates; drilling of steel / concrete structure and precast panels; all grouting and pointing as specified		Item			
G	They shall also be responsible for the design, supply and installation of all fixings between precast slabs/units and the main building structure.		Note			
	Woodwork: Structural and First Fixings					
	Structural and First Fix					
	Sawn Softwood, Vac-Vac treated; white deal; stress grade to structural class B, grade C16 timbers					
	Carcassing;					
	Flat Roof to Ground Floor Extension					
H	200 x 44mm treated timber packer fixed into web of Steel Beam with and including M12 blots @ 400mm c/c (per Engineer's Detail A, Drawing 02-XX-DR-S-4000)	244	m			
J	200 x 60mm treated timber packer fixed into web of Steel Beam with and including M12 blots @ 400mm c/c (per Engineer's Detail A, Drawing 02-XX-DR-S-4000)	5	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	200 x 100mm treated timber packer fixed into web of Steel Beam with and including M12 blots @ 400mm c/c (per Engineer's Detail E, Drawing 02-XX-DR-S-4000)	26	m			
B	175 x 44mm roof joists @ 400mm c/c	638	m			
C	Ditto incorporated into top of firerated stud wall all per Architect's drawing 211	22	m			
	Solid Bridging (Measured across roof joists)					
D	150 x 44mm bridging joists @ 1350mm c/c	119	m			
	Plywood					
E	18mm marine grade plywood fixed to roof joists @ 400mm c/c	249	m2			
F	Ditto to side of Parapet Upstands < 300mm high	159	m			
G	Ditto to side of AOV Upstands > 300mm high	10	m2			
	Labours					
H	Treat ends of joists with coloured preservative to B.S 5707; part 3 1980; 250mm long	192	No.			
	Ironmongery, Accessories and Sundries					
	Metal accessories to woodwork in galvanised mild steel; joist hangers all as per Engineer's Drawings					
	Accessories; straps and hangers					
J	Simpson face fix joist hanger fixed onto timber packer to suit 175 x 44mm joist	566	No			
	Reinforced concrete grade C32/40; filling into formwork; tamped around reinforcement all as per Engineers concrete specification:					
	Upstand					
	Rectangular; to top of existing concrete roof deck					
K	cross sectional area less than 0.10m2	2	m3			
	Lift Shaft Roof Slab					
L	200mm thick	2	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Reinforcement					
	Bar reinforcement; all in compliance with Engineers Concrete Specification Section E30; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers drawings and Specification					
	Bar					
	Straight or bent					
A	Nominal size < 12mm diameter	0.25	tonne			
B	Nominal size; 12 - 25mm diameter	0.25	tonne			
	Formwork					
	Wrot formwork as described to Engineer's specification to : -					
	Soffit of Roof Slab					
C	> 300mm wide	8	m2			
	Soffit of Roof Slab					
D	< 300 mm wide	12	m			
	Upstand; isolated; rectangular					
E	< 300mm high	44	m			
	Surface Finishes					
F	Float concrete finish to Roof Slab to falls	8	m2			
G	Trowl finish to top of upstand <300mm wide	22	m			
	Structural Steelwork					
H	This structural steelwork is measured in accordance with the Agreed Rules of Measurement, 2009 (ARM 4) jointly published by the Society of Chartered Surveyors (SCS) in the Republic of Ireland and the Construction Industry Federation(CIF)		Note			
J	Rates are to include for all labours in connection with the following work including all fittings		Note			
K	All elements of the structure Designed by the Contractor shall be submitted to the Structural Engineer for comment		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	The Contractor shall provide temporary bracing and shoring against lateral forces and all construction loads throughout the work. Design of temporary bracing and shoring is to be submitted to the Structural Engineer for approval		Note			
B	Rates for Structural Steel are to include for all site welding. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref page 85/4/5 & 6		Note			
C	Rates for Structural Steel are to include for all site bolts. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref page 85/2/3		Note			
D	Provide for complying with the Specification requirements for tests of materials, workmanship, tolerances and finished structures		Note			
E	Main Contractor shall note that he will be required to execute a Collateral Warranty in favour of the Employer for the Design Supply and Installation of Structural Steelwork		Note			
	Builders Work Requirements					
	The Contractor must obtain in time all necessary information relating to the structural steel erection builders work to enable the works to be carried out without interruption. Any additional costs incurred by his failure to obtain this information will be at his own expense					
F	Setting out Structural Steel with Specialist Contractor		Item			
	Structural Steelwork					
	Notes:					
G	1. The Contractor is required to design, provide and fix all necessary fittings; caps; bases; haunches; gussets; end plates; splice plates; bolts and associated fittings and connections which may be necessary to complete this section of the works. The Contractor is required to liaise and co-ordinate with other trades to provide and fix all such fixings as may be necessary for this installation		Note			
H	2. The Contractor will be required to carry out 100% testing on all site welding as detailed in Structural Engineers Civil & Structural Specification.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	The following steelwork to be Grade S355; in accordance with EN 10029:1991 and the Structural Engineers Civil and Structural Specification; fabrication, surface preparation, priming at works and site erection and treatment to comply fully with all aspects of the structural steelwork specification; all as per Engineers Performance Specification.					
	Fabricated steelwork; welded fabrication,bolted and welded site connections					
	The following in prefabricated steel framework including bolts, nuts and washers for steel connections, shot blasting, shop primed and painted as per Engineers Specification and Drawings including fittings; caps; bases; haunches; gussets, end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces and associated fittings.					
	Fabricated Members					
	Beams					
	< 25kg/m					
A	SB3 - PFC 200 x 75 x 23	0.45	tonne			
B	SB4 - PFC 150 x 75 x 18 (Corrosion Category C3)	1.03	tonne			
C	Extra over Ditto Hot Dipped Galvanised after fabrication	0.73	tonne			
D	CHS 48.3 x 5	0.19	tonne			
E	RHS 120 x 60 x 10 Forming Parapet (all per Engineer's Details B on drawing 02-XX-DR-S-4000)	2.94	tonne			
F	Flat Bar 120mm wide x 10 thick weld fixed to underside of steel beam to support heads of 2no large siliding doors (elsewhere measured)	0.12	tonne			
G	Extra over Ditto Hot Dipped Galvanised after fabrication	0.12	tonne			
	25 - 50kg/m					
H	SB1 - UB 203 x 133 x 30	5.8	tonne			
J	SB2 - UB 203 x 203 x 46	0.9	tonne			
K	Fittings to beams	0.57	tonne			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Columns					
	< 25kg/m					
A	SC1 - UC 152 x 152 x 23	1.81	tonne			
B	SHS1 - SHS 100 x 100 x 5 forming upstand for AOV over existing stairs (Corrosion Category C3)	0.18	tonne			
	25 - 50kg/m					
	Bracing					
	<25kg/m					
C	100 x 10 Flat Bar Bracing	0.65	tonne			
D	Fittings	0.14	tonne			
	Base Plates (all per Engineer's Details C & D on drawing 02-XX-DR-S-4000)					
E	450mm x 450mm x 25mm thick base plate with 8mm continious fillet weld to base of columns, holed 4 times for bolts	23	No.			
F	25mm non-shrink grout under base plate 450mm x 450mm	23	No.			
G	M20 Post-fixed Mechanical Anchors, included for drilling into existing 250mm ribbed reinforced concrete roof deck	92	No.			
	Steel to Steel Moment Connection					
H	Steel to Steel Moment Connection to accommodate M=75kNm, connection to contain Farrat TBK Thermal plate or equivalent. Include for all necessary plates, bolts etc. complete, all per Engineer's Details B on drawing 02-XX-DR-S-4000	9	No.			
	Fire Stopping					
J	Contractors to include for Specialist firestopping Design required for the 3rd floor of the convent building to achieve the required fire performance of all elements as shown on the Fire Certificate drawings (refer Background Information) This floor is an SFS wall system with steel structure. In particular - specialist design is required for the wall partitions meeting the underside of the roof all per Architect's Specification P12/165		Item			

	Description	Qty	Unit	Rate	€	c
	Fire Stopping to steel beams at junction where roof steel beams penetrates top of fire rated stud wall partitions (elsewhere measured). Include for fire stopping beam nominal 500mm from face of stud wall, to both sides, Include for all necessary, seals, mastic, board, fixings etc. complete, all to achieve 60min fire rating, and all to contractor's specialist detail and Architects Drawing 511 & Specification P12/170					
A	To UB 203 x 133 Beams	10	No			
B	Extra over for cutting and sealing around timber roof joists @ 400mm centres		Item			
	Fire Stopping to steel columns, Include for all necessary, seals, mastic, board, fixings etc. complete, all to achieve 60min fire rating, and all to contractor's specialist detail and Architects Drawings & Specification P12/170					
C	SC1 - UC 152 x 152 x 23 (9no. - Ground Floor Level)	26	m2			
D	SC1 - UC 152 x 152 x 23 (14no. - Roof Level)	25	m2			
E	SHS1 - SHS 100 x 100 x 5 (8no.- Roof Level)	6	m2			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
K	Testing		Item			
L	Surveys		Item			
M	Samples		Item			
N	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/5/1					
Page No. Conv/5/2					
Page No. Conv/5/3					
Page No. Conv/5/4					
Page No. Conv/5/5					
Page No. Conv/5/6					
Page No. Conv/5/7					
(27 & 28) ROOF & FRAME **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(31) EXTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	For detailed description of workmanship and materials refer to specification.		Note			
D	Supply and fix in position the following including all necessary frames, bolts and anchorages.		Note			

To Collection €

Description	Qty	Unit	Rate	€	c
DOUBLE GLAZED WINDOWS/SCREENS					
Timber Framed Composite Items					
Timber frame 3 panel glass sliding doors with integrated side hung access/egress door to ground floor extension. Contractor design of glazing and door frame structure to meet performance requirements. Performance:. Security:: High security (Secured by Design). RC2. Thermal:: U-value: 1.2 W/ m2K. Include for airtightness tape, all to achieve Airtightness: Class 3 to EN 12207 (tested to 600 Pa) Dual compression seals. Water tightness: Class 9A to EN 14351-1 (no water ingress at 600Pa). Windload: Class 4B to BS EN 12211 (test pressure 1600Pa & frame deflection < 1/300). Barrier load minimum performance requirement calculated as EN 1991-1: Horizontal UDL: 1.5KN/m UDL applied to infill: 1.0kN/m2 Point Loat 0.5kN. Durability: Category 5. Arrangement: Multi-leaf slide, bottom-rolling + intergrated side hung access door closing to end sliding panel. lift and slide roller mechanism. Door leaf: Construction:: Timber - Solid Iroko frame. Finish as delivered: Full factory treatment and finish - preservative treatment. Glazing/ infill details: Triple glazed, 56 mm - Toughened self-cleaning. Manifestation: To comply with TGD Part M. Operation: Manual. Ironmongery: Multi leaf - lift and slide mechanism, Internal handle. Siegenia Aubi Portal HS400 lift and slide. or Equivalent. Include for Threshold: ECO Pass - thermally isolated Aluminium. Other requirements: Self cleaning roller Soft close function Bogie wheels 8 self-aligning rollers. Locking - thumb turn internally, europrofile cylinder externally Part M compliant threshold profile (max 15mm high with pencil rounded edges). Emergency egress:: Side hung access / egress door must provide clear opening width of 800mm and be connected to BMS / break glass unit to provide egress in event of fire. Security Rating: RC2. Verification. Submittals: Manufacturers document including datasheets, DOP and evidence of CE marking before placement of orders					
Include for Airtight Seals/ Tape and foam as per Specification and as shown on drawings. Include also for EPDM and all Mastic Pointing to perimeter of frames. Include for all necessary fixings. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and window schedules [dwg 606] and as per Architects specification clauses L20A specifically L20A/520; and all in accordance with the manufacturers instructions.					
Bespoke joinery fabrication sliding external door					
A Type DG - Glazed Sliding Door, incorporating single swing door, Strutural ope size overall 6245mm wide x 3040mm	2	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Screens / Doors					
	Aluminium curtain walling system with externally flush silicone jointing between adjacent toggle fixed glazing units and adjoining perimeter cladding. Curtain wall mullion profiles shall be internally reinforced where necessary and dead load supported and laterally restrained at floor levels. Supporting structure: Steel superstructure for vertical elements and head detail. Reinforced Concrete upstand for base detail (elsewhere measured). Curtain walling system: Thermally broken stick system, pressure equalized and naturally ventilated/ selfdraining - Schuco FW60+SG or equivalent. Material: Aluminium. Finish: Anodizing. Colour/ texture: Natural - Refer to Section Z33. External cover cap Aluminium Anodizing. Colour/ texture: Natural - Refer to Section Z33. Glazing: Performance requirements:: High performance solar control coated (typically high performance solar control coating to surface #4 or #6), argon filled, toggle fixed, insulating triple glazed vision units with PVB (acoustic if required) laminated 1(B)1 (in accordance with EN12600) safety glass to external and internal leaf's with black warm edge spacer bar technology (Swisspacer Ultimate or equivalent). Medium-iron content substrates to be used throughout. Average glazing u-value including frame factor: see clause 370. Glazing light transmittance (G-value): 0.40 maximum. Glazing Security performance (EN356): P4A. Accessories: Any associated accessories required to complete the system design including, but not limited to: Ironmongery, Perimeter flashings, Glass manifestation, Firestopping when curtain wall abuts internal compartment barriers (2no instances). Proprieraty detail required. Incorporated components: Doors (2no). Other requirements: Glass panels forming external wall of stairwell to be obscured / painted internally prior to installation.					
	Include for Airtight Seals/ Tape and foam as per Specification and as shown on drawings. Include also for all Mastic Pointing and EPDM to perimeter of frames. Include for all necessary fixings. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and window schedules [dwg 603] and as per Architects specification clauses H11 specifically H11/110; and all in accordance with the manufacturers instructions.					
	Curtain Walling					
A	Type WR- Glazed Screen incororation 2no. Single Doorsets and approx 600mm high insulated spanderal panel to top of screen. Overall size 21645mm wide x 2900mm high	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Extra Over for;					
A	Vertical Pressed Aluminium Flashing, powdercoat finish to match curtain walling, girth <150mm, 3 times cranked, to reveals, include for Sealant to spec. Z22/310, etc complete all per Architect's Drawing 318 and Specification	6	m			
B	Extra over for neatly working around support steel beams for Brise Soleil, incl for all necessary seals, flashings etc, complete all per Architect's drawing 319.	9	No.			
	Doors					
	High insulated aluminium doorset for stairwell entrance / external egress, including fire rating where applicable. By Schueco or equivalent. Product reference: ADS 70 HI - or equivalent: Outward swinging glazed door with sidelight Fire resistance: EI30Sa in accordance with IS EN 13501-2: Outward swinging glazed door. Min. clear opening part L: 1300 mm. Fire resistance: NFR. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB. Thermal performance (U-value maximum): 1.4 W/m2K. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627-EN(V)1630. Watertightness: Up to 600 Pa (class 3). Air permeability: Up to 300 Pa (class 7A). Resistance to wind load: Up to 800 Pa (class C2). Door leaf. Material: Anodized Aluminium - to match finish as clase L10/410. Frame. Material: Anodized Aluminium - to match finish as clase L10/410. Threshold: Flat aluminium with brush seal. Glazing/ infill details:. Type:: Double glazed. Fixing: Glass to be set against extruded EPDM rubber gaskets retained in undercut grooves within the aluminium profile and clip-in glazing beads. Ironmongery: Handles: Shield handles, natural anodized. Access controls: Refer to electrical engineers specification. Closer: Overhead closer compatible with doorset manufacturer guidelines.. Perimeter seals: Fire and smoke seal + EPDM weatherseal as necessary.					
	Include for Airtight Seals/ Tape and foam as per Specification and as shown on drawings. Include also for all Mastic Pointing, EPDM, mineral wool packer, to perimeter of frames. Include for all necessary fixings to existing masonary wall. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and window schedules [dwg 314 & 605] and as per Architects specification clauses L20A specifically L20A/480; and all in accordance with the manufacturers instructions.					
	Composite Doors					
C	Type DF- Single Door size with glazed fan light over. overall 1545mm wide x 2555mm high	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type DJ- Single Door size with glazed fan light over. overall 1545mm wide x 2555mm high	1	nr			
B	Type DH (DVR - Laundry): Outward swinging solid aluminium door. Min clear opening Part L: 800mm. Fire Resistance: Fire resisting doorset achieving 60 minutes fire resistance (Integrity) in accordance with EN 1634: 2014. Doors fitted with smoke seals to be in accordance with EN 1634-3. Performance. Fire performance. Fire resistance: EI30 Sa. Smoke leakage: Sa. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. Size overall 1090mm wide x 2120mm high;	1	nr			
				To Collection €		

Description	Qty	Unit	Rate	€	c
Windows Highly insulated thermally broken aluminium sash and timber frame. Aluminium sash profiles will be fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. The sealed glass unit must be internally dry-glazed with EPDM gaskets and the glass rebate must be formed of aluminium. Novus windows or Equivalent - Nation Ideal Combi or Equivalent. Standard: Non-fire-rated and/ or non-smoke-rated windows to BS EN 14351-1 & Fire-rated and/ or smoke-rated opening windows to BS EN 14351-1 and BS EN 16034. Materials. Exterior frame/ sash cladding: Aluminium/ Timber Outward & Inward Opening Sashes. The window sash will have a 54mm external sash profiles which are fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. Finish: The external aluminium sash must have an anodized finish Colour/texture: Natural - Refer Section Z33. Interior frame/ sash section: The system must have an internal structural frame of laminated softwood, sourced from a renewable and managed supply chain. Quality optimised finger jointed timber with 149mm (or 175mm) overall depth of frame. The frame is completed with PUR core with a lambda value of 0.074 W/mK and external PPC Aluminium profile. Timber standard: To BS EN 942. Softwood as table NA1 Appearance class: J30. Moisture content on delivery: 12 - 19%. Assembly adhesive: Thermosetting resin to BSEN 12765 class C4. Joinery workmanship: As section Z10. Preservative treatment: Organic solvent as section Z12 and WPA Commodity Specification C5; service life 50 years. Finish: The internal timber frame to be preservative treated with fungicides and have a further two coat factory pre-finish with an environmentally friendly (solvent free) 100% Acryl emulsion/water-based surface treatment. The coating is to have a dry paint thickness of between 60-100 ?m and a colourless finish to gloss level 25 (silk matt).					

To Collection €

Description	Qty	Unit	Rate	€	c
Galvanised straps at 600mm centres, or as manufacturers recommendations. Performance: Air permeability: Class 4 at 600 Pa in accordance with EN 12207: 2016and EN1026:2016. Water tightness: Class E1500 in accordance with EN 12208: 2000. Wind load: Class C4 in accordance with EN12210: 2000. no deformation or damage must be recorded at an applied wind pressure of 1800PA using test method EN 12211 (BS 6375 part 1). Exposure category: 1600 in accordance with BS6375: Part 1: 2009 and the window system must be tested to meet the requirements of BS 6375 part 2. Security: PAS 24:2012: Pass. Thermal performance (U-value maximum): The thermal transmittance (U value) for the window system and glazing (including spandrel panels) shall not exceed: Overall Windows U Value (Uw) = 1.1 W/M2 K. Operation and strength characteristics: To BS 6375-2. Acoustic performance rating: Manufacturer's standard. Environmental performance: Manufacturing facilities will operate an ISO 14001 environmental policy as will key suppliers. All timber will be fully FSC certified, and 85% of aluminium will be procured from hydro-electric sources with a recycled content of at least 50%. Glazing details: Low "E" Double Glazed Unit in accordance with EN 1279 Light Transmittance (Lt): 0.74 Warm Edge Spacer Bar: Black Swiss V. Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.					

To Collection €

	Description	Qty	Unit	Rate	€	c
	The use of site-applied wet or dry sealant placed in the outermost plane of the windows/screens in order to seal between units and/or other adjacent materials will be unacceptable. TGU U Value (Ug): 0.53 W/M2K. g-value: : 0.53. Light Transmittance (Lt): 0.74. Warm Edge Spacer Bar: Black Swiss V. Safety glass: Safety glass to BS 6262 and in accordance with TGD's. Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.. Ironmongery/ accessories: To include: PPC Aluminium Tray Cill Pressings. Concealed Aluminium Click Vents. Integrated Espagnolette Handles to operate a fully concealed multi-point locking mechanism with night vent position. Concealed Dual Function Restrictors to all openings above GFL. Friction stays, sliding tracks, hinges and handles must be sourced from one single manufacturer and/or must have been developed and engineered specifically with the proposed window system in mind. Opening handles are to be single handles incorporating a multipoint locking mechanism fully concealed within the sash with only one handle permitted per window/door. Alternative handle specification will be to provide 2 SAA (or equivalent) square catch handles per window. Enhanced ironmongery to be upgraded from general specification above due to increased security requirement: Refer to Section P21 505 and ironmongery schedule for further details.. Background ventilation: Concealed aluminium click vents to provide equivalent area as required for compliance with TGD Part F 2019. A schedule of ventilation areas achieved by each window unit is to be provided to the Architect prior to placement of order. Warranty & Design Life: The window system will have an expected design life of at least 60 years and a schedule of maintenance will be provided. The complete window inclusive of framing, gaskets, ironmongery and glazing will be covered by a 10 year warranty from date of manufacture. Verification:. Submittals: Manufacture: Window production facilities will operate an ISO 9001 quality control system, before placement of orders. Include for Airtight Seals / Tape and foam as per Specification and as shown on drawings. Include also for all sealant (Z22/310) Mastic Pointing and EPDM to perimeter of frames. Include for all necessary fixings. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and window schedules [dwg 602] and as per Architects specification clauses L10 specifically L10/410; and all in accordance with the manufacturers instructions. Window					
A	Type WS- Circular Window 885mm diameter	5	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra Over for					
A	Aluminium flashings to form reveals, sills or drip sills to Circular Windows. Polyester Powdercoated with anodic paint finish. Include for insulation, EPDM to P10/310, and EPDM carrier all as per Architectural drawing 324 and Specification H72.	14	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Louvre windows with actuators to provide smoke extraction to communal corridor areas. Natural smoke and heat exhaust ventilators in accordance with IS EN 12101. By Fieger or Equivalent: FLW-32 or Equivalent. Ventilation requirements: Minimum free area of 1.5m2, in accordance with Para 6.1.4 of the TGD- B: 2024. Operation: The vents will be automatically opened by the fire detection and alarm system, on activation of smoke detectors in the stairway enclosure/ on activation of the smoke control system as specified by Mechanical & Electrical Engineer and will also be manually openable for fire brigade use. The manual override will be provided with clear signage as to its function and operation, for fire service use only. AOV's will comply with IS EN 12101-2. Where any part of the control mechanism is powered by electricity, a secondary supply will be provided. Integration of control systems: Refer to Mechanical & Electrical Engineer specifications and drawings. Finish to match system specified Section L10/410. Frame dimensions: Visible frame width (vent): 40mm (horizontal and vertical). Visible frame width (louvres): 21 mm. Performance: in accordance with IS EN 12101-2. Thermal performance (U-value maximum): 1.1 W/m2K with triple glazing. Air permeability: Class 4 in accordance with EN 12207. Watertightness: Class 7A in accordance with EN 12208. Glazing details: 28 mm double-glazed. Accessories: As required to complete the commissioning of the smoke control system including, but not limited to the following: -Fireman's override switches, -Key switches, -MCC Panel, -Pressure sensors. Refer to Mechanical & Electrical Engineers drawings and specifications for more details. Include for Airtight Seals / Tape and foam as per Specification and as shown on drawings. Include also for all sealant (Z22/310) Mastic Pointing and EPDM to perimeter of frames. Include for all necessary fixings. Include for all associated ironmongery and opening sections. fixed within ope in existing external masonary wall of convent. All as per Architects plans, elevations and window schedules [dwg 601] and as per Architects specification clauses L10 specifically L10/390; and all in accordance with the manufacturers instructions. Window					
A	Type L- Automatic Opening Window (Smoke) 1,150mm wide x 2,260mm high	1	nr			

	Description	Qty	Unit	Rate	€	c
	Sundries					
	Manifestation Patches					
	Apply permanent manifestation dots to be visually contrasting with background in all lighting conditions; must be provided in the form of acid etched dots or lines, all to comply with TGD Part M, all per architects drawing and specification					
A	Screen Type WR	22	m			
B	Sliding Door Type DG	13	m			
C	Door Type DF	2	m			
D	Door Type DJ	2	m			
E	Door Type DH (Fire Rated Glass)	1	m			
	Tape to Perimeters of Windows & Doorsets					
	Airtight tape sealing between bonded to window /door frames and internal masonry; Product to have Agrement Certification,; May be plastered over For airtight bonds according to DIN 4108-7, SIA 180 and OENORM B 8110-2; Refer to manufacturers guidance for full details of installation, including any requirements for application of primers on unstable substrates; All as per Architects specification					
F	150mm wide	129	m			
	Thermal Compact Foam Batten					
	Supply and fix Thermal Compact Foam Batten to support glazed screen / doorsets, fixed to reinforced concrete / blockwork inner leaf, 2 fixings at 400 centres for all, size of fixings to contractor design, all as per Architects Drawing 316 and specification section L10 / 785					
G	80mm wide x 100mm high	64	m			
	Galvanised Steel Angle					
	Supply and fix Galvanised Steel Angle to support glazed screen / doorsets, fixed to reinforced concrete / blockwork inner leaf, include for thermal break pads, etc. all as per Architects Drawing 317 and Engineer's drawings and specification					
H	100mm x 100mm x 10mm	15	m			
J	100mm x 180mm x 10mm	27	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	200mm x 150mm x 10mm	13	m			
	Galvanised Steel					
	Supply and fix Galvanised Steel plate to support glazed head of screen / doorsets, fixed to underside of structural steel beam (elsewhere measured), include for thermal break pads, etc. all as per Architects Drawing 331 and Engineer's drawings and specification					
B	220mm x 10mm	13	m			
	Brise Soleil					
	Aerofoil Aluminium Louvres/ Brise Soleil 1. Proprietary brise soleil/ vertical louvre system configured as indicated on the Design Drawings, fixed to galvanised steel support beams (elsewhere measured). Louvre blades and side support arms shall be aluminium. Stainless steel brackets and clips. Concealed stainless steel fixings. Horizontal Aerofoil Shading Fins: a. Aluminium extruded aerofoil profile fins to sizes and configuration indicated on the Design Drawings. Finish: Polyester powder coated in a RAL colour to the ER's acceptance via samples. Include for painting galvanised steel support beam matching colour. Fixings: a. Countersunk stainless steel Allen key head fixings throughout. b. Facilitate simple and convenient demountability of the fins for replacement. 8. The blades shall withstand all loadings from cleaning and maintenance operations without deterioration in performance or appearance. 9. Ends of each bank of aerofoil sections shall be open jointed, co-ordinated and configured to align with the joints in the curtain wall sections. Fixed to galvanised steel support beams with concealed fixings and including high density thermal insulation break; all as per Architects Drawings 319 & 414 and Specification.					
C	Overall Size 22,000mm long x 1,750mm wide	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Woodwork					
	Boarding and second fixing					
	Softwood window board; 1. Description: 35mm softwood free from decay with no knots wider than half the width of the section. 2. Quality of wood and fixing: To BS 1186-3. 2.1. Species: Contractor's choice 2.2. Class: 1 3. Moisture content at time of fixing: 10% 4. Fabrication: As Section Z10 5. Reaction to fire rating: To IS EN 13501-1, Class B or better 6. Finish as delivered: Prepared and primed, as section M60 7. Fixing: secret screws 300mm centres fixed to wet plaster on Blockwork. 8. Joint treatment: butt jointed. Inclusive of softwood timber grounds, <150mm girth vapour membrane to H31/261. All per Architect's drawings and Specification P20/110B					
	Second fixings; window boards					
A	Circa 300mm wide x 35mm thick window board	2	m			
	Painting and Decorating					
	MANUFACTURER: Submit proposals; PRODUCT REFERENCE:submit proposals; Paint system proposed to be designed for intended application, supported by manufacturer's product datasheet.; SURFACES: Uncoated or primed internal softwood or hardwood.; PREPARATION: As Clause 400.; INITIAL COATS: Primer as recommended by paint manufacturer.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer; UNDERCOATS: As recommended by manufacturer.; NUMBER OF COATS: 2 minimum, or as recommended by manufacturer.; FINISHING COATS: Satin.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer. FINAL COLOUR: to be confirmed, on submittal of colour range.; all as per Architects specification section M60 / 130					
	General surfaces; to timber base					
B	> 300mm	1	m2			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/6/1					
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Page No. Conv/6/13					
Page No. Conv/6/14					
(31) EXTERNAL WALL COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(32) INTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings		Note			
B	The Structural Engineer's & Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	For detailed description of workmanship and materials see specification.		Note			
D	All exposed hardwood and softwood shall be kept clean in preparation for decoration		Note			
E	Doorsets described as fire resisting are to be provided exactly in accordance with a specification describing construction and ironmongery which as when tested to BS 476: Part 8 or BS 476: Part 22: 1987 provided fire resistance of no less period than specified		Note			
F	Manufacturing Test Certificates, Reports, Supplements and Evaluations are to be provided as evidence that all functions, sizes and glazing arrangements that are to be supplied are approved.		Note			
G	All fire doors are to be identified by a permanently fixed small flush metal plate, indicating the period of fire resistance, manufacturer, year of manufacture and other pertinent details		Note			
H	Doors and screens (measured separately) in this section have not been fully described and the Contractor is to examine the joinery details and to include in his rates for all hardwood spacers, frames, heads, cills, jambs, mullions, transoms, plinths, doorstops, glazing beads, fillers etc. and all their associated labours, all exposed components to be glued and countersunk screwed only (securing frames i.e. holes, bolts and mortices in solid concrete blockwork are measured separately)		Note			
J	All Internal doors are to conform to part 1.9 (a,b,c,d,e,f) and diagram 5 and 6 of the TGD part M 2000		Note			
K	NOTE: Design Team preference for complete Door System manufacturer and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Contractor is required to provide complete Door System manufacture and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval.		Note			
	Contractor to identify party that will act as ancillary certifier for complete doorset (Doorset ancillary certifier). Doorset ancillary certifier to ensure the following; All per Architect's Specification L20					
B	- that Fire Test Certification is available for all doorsets		Note			
C	- that Fire Test Certification for each doorset is compatible with proposed door frame detail, and with proposed gap under door (in particular if gap is required below door for air circulation)		Note			
D	- that doorset is installed in accordance with fire test certification, in particular in relation to gap between frame and ope, and between doorset and frame/ floor below		Note			
E	- that ironmongery proposed is fully compatible with Fire Test Certification for door and frame		Note			
F	- that proposed doorsets comply with both Part B for closing force requirements and Part M for opening force limits		Note			
G	- that minimum acoustic standards for entire doorset are met		Note			
H	- that all maglocks are installed and commissioned to ISEN13637		Note			
J	- that all fire rated glazed screens are fitted with appropriate glazing to ensure that integrity and insulation requirements are met		Note			
K	- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK					
	Hardwood Architraves to BS 1186-3. Species: European Oak (Quercus Petrea). Class: CSH class 1. Moisture content at time of fixing: 6-10 %. Profile: Pencil round arris. Finished size: 100mm x 19mm. Finish as delivered: clear matt lacquer as clause N10.025. Fixing: screwed and pelleted or as noted on the drawings.. Include for all necessary mastic seals, etc. complete. All per Architect's Specfication P20/120B & Drawings 580 - 583					
	Architrave					
A	75 x 19mm thick	699	m			
	Composite Items					
	Doorsets all as per Architects Drawing no. 610					
	Doorsets, complete. Fire resistance: To IS EN 13501-2, E30. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 115. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2 Door leaf. Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm.. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Include for Frame: As clause 330. Door Operation: Single leaf - Double action floor spring. Closer: Fire rated double action closer - tested to EN 1634-1. Include for Architrave: As clause P20/120A. Include for Ironmongery: Refer to ironmongery schedule. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops: include for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/415B					
	Single Doorsets					
B	Doorset Type D;- 1,070 x 2,250 high; (FD30). Include for supply and fitting ironmongery SET KR1067	2	no			

	Description	Qty	Unit	Rate	€	c
	Doorsets, Fire resistance: To IS EN 13501-2, E30. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 115. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Closer: Overhead concealed. Architrave: As clause P20/120A. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification; Submittals, complete: include for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/410B					
	Single Doorsets					
A	Doorset Type A;- 1,070 x 2,250 high; (FD30). Include for supply and fitting ironmongery SET KR1014	4	no			
	Doorsets all as per Architects Drawing no. 612					
	Doorsets, complete. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 120. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Door Operation: Single Leaf - Double Action. Architrave: As clause P20/120A. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification, Submittals. include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/415A					
	Single Doorsets					
B	Doorset Type U;- 1,070 x 2,250 high; Include for supply and fitting ironmongery SET KR1066	3	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Doorset Type U;- 1,070 x 2,250 high; Include for supply and fitting ironmongery SET KR1054	2	no			
	Doorsets all as per Architects Drawing no. 613 & 614					
	Doorsets, complete.To IS EN 13501-2, E30.. Smoke leakage: Sa Sa.. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better.. Evidence: As clause 115. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Door Operation: Closer: Overhead concealed generally. Note that door types CM & CN are equipped with hold open systems. Architrave: As clause P20/120A. Glazing/ infill details:. Vision panels:: Circular vision panels per architectural drawings. Side panel: Fixed side leaf - refer to architectural drawings. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification. Submittals, include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/410C					
	Single Doorsets					
B	Doorset Type CF;- 1,070 x 2,400 high; (FD30s). Include for supply and fitting ironmongery SET KC1063	1	no			
C	Doorset Type CF;- 1,070 x 2,400 high; (FD30s). Include for supply and fitting ironmongery SET KC1002	1	no			
D	Doorset Type CI;- 1,050 x 2,090 high; with 350mm diameter glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KR1002	5	no			
E	Doorset Type CH;- 1,200 x 2,100 high; with 2No. 350mm diameter glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KC2002	7	no			
F	Extra Over for Glazed side panel / screen 880mm wide x 2100mm high (FD30s)	7	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Doorset Type CQ;- 1,050 x 2,100 high; with 2No. 350mm diameter glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KC2002	1	no			
B	Extra Over for Glazed side panel / screen 390mm wide x 2100mm high (FD30s)	1	no			
C	Doorset Type CU;- 1,050 x 2,100 high; with 600mm wide x 1,700mm high glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KC2002	1	no			
D	Extra Over for Glazed side panel / screen 1330mm wide x 2100mm high (FD30s)	1	no			
	Double Doorsets					
E	Doorset Type CM;- 2,100 x 2,100 high, (FD30s), Include for supply and fitting ironmongery SET KC2452 (Including 2no. Boss Electromagnetic Hold Open Cam Action Track Arm Overhead Door Closer for Pull-side Door Leaf Fixing. Semi Radius Cover and Boxed Power Supply Unit, 24VDC 1amp, all necessary wiring etc. complete)	1	no			
F	Doorset Type CM;- 2,100 x 2,100 high, (FD30s), Include for supply and fitting ironmongery SET KC2752 (Including 2no. Boss Electromagnetic Hold Open Cam Action Track Arm Overhead Door Closer for Pull-side Door Leaf Fixing. Semi Radius Cover and Boxed Power Supply Unit, 24VDC 1amp, all necessary wiring etc. complete)	2	no			
G	Doorset Type CN;- 1,995 x 2,100 high, (FD30s), Include for supply and fitting ironmongery SET KC2752 (Including 2no. Boss Electromagnetic Hold Open Cam Action Track Arm Overhead Door Closer for Pull-side Door Leaf Fixing. Semi Radius Cover and Boxed Power Supply Unit, 24VDC 1amp, all necessary wiring etc. complete)	1	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Fire resistance: To IS EN 13501-2, E60. Smoke leakage: Sa Sa.. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 115. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2. Door leaf; . Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 54 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Closer: Overhead concealed. Architrave: As clause P20/120A. Glazing/ infill details:. Vision panels: Circular vision panels - refer to architectural drawings. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification; Submittals. include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/410D					
	Single Doorsets					
A	Doorset Type CJ;- 1,050 x 2,100 high; with 350mm diameter glazed vision panel (Glazing taken elsewhere) (FD60s). Include for supply and fitting ironmongery SET KR1002	3	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Selo or equivalent. Product reference: Quadra+ Riser Door System or equivalent. Door construction: 1.2mm sheet steel with mineral wool core. Frame Type: Concealed (as Standard). Finish: Powdercoated - RAL colour to architects specification. Performance. Fire performance. Fire resistance: FD60S as per Fire Certificate Requirements to IS EN 13501-2, E60. E120 - Bi-directionally fire tested. Smoke leakage: Sa. Smoke seal: Required. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Frame: As clause 330. Door Operation: Single Leaf / Double Leaf - refer to architectural drawings. Closer: Concealed overhead. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Verification. Submittals: Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification; Submittals. include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/430E					
	Single Doorsets					
A	Doorset Type CO;- 930 x 1,990 high; Riser Doorset (FD60s). Include for supply and fitting ironmongery SET KC4003	8	no			
B	Doorset Type CP;- 760 x 1,990 high; Riser Doorset (FD60s). Include for supply and fitting ironmongery SET KC4003	4	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 120. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Architrave: As clause P20/120A. Glazing/ infill details: Infill panels: Insulating glass unit with hardwood beads - refer to architectural drawings. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance Other requirements: Hardwood doorstops. Verification; Submittals. include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/430A					
	Single Doorsets					
A	Doorset Type CE;- 1,070 x 2,400 high; with 600mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere). Include for supply and fitting ironmongery SET KC2001	2	no			
B	Doorset Type CC;- 1,050 x 2,400 high; with 600mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere). Include for supply and fitting ironmongery SET KC2001	1	no			
C	Extra Over for Glazed side panel / screen 765mm wide x 2400mm high	1	no			

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 120. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2 - Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Architrave: As clause P20/120A. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification. Submittals, include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/410A					
	Single Doorsets					
A	Doorset Type CG;- 1,070 x 2,100 high; Include for supply and fitting ironmongery SET KC1062	1	no			
B	Doorset Type CG;- 1,070 x 2,100 high; Include for supply and fitting ironmongery SET KC1084	1	no			
C	Doorset Type CT;- 1,070 x 2,100 high; Include for supply and fitting ironmongery SET KC1056	1	no			
D	Doorset Type CK;- 995 x 2,100 high; Include for supply and fitting ironmongery SET KC1056	8	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Fire resistance: To IS EN 13501-2, E30. Smoke leakage: Sa. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 115. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Closer: Concealed overhead. Architrave: As clause P20/120A. Glazing/ infill details: Infill panels: Insulating glass unit with hardwood beads - refer to architectural drawings. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification. Submittals, include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/430C					
	Single Doorsets					
A	Doorset Type CL;- 1,140 x 2,390 high; with 700mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KC2702	1	no			
B	Extra Over for Glazed side panel / screen 1140mm wide x 2390mm high (FD30s)	1	no			
C	Doorset Type CD;- 1,070 x 2,100 high; with 600mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere). Include for supply and fitting ironmongery SET KC1001	1	no			
D	Doorset Type CD;- 1,070 x 2,100 high; with 600mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere) (FD30S). Include for supply and fitting ironmongery SET KC1002	2	no			
E	Doorset Type CA;- 1,135 x 2,400 high; with 700mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere) (FD30S). Include for supply and fitting ironmongery SET KC1002	1	no			
F	Doorset Type CU;- 1,050 x 2,100 high; with 600mm wide x 1,700mm high glazed vision panel (Glazing taken elsewhere) (FD30s). Include for supply and fitting ironmongery SET KC2002	1	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Doorsets, complete. Fire resistance: To IS EN 13501-2, E60. Smoke leakage: Sa. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Evidence: As clause 115 Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. Mechanical strength: To IS EN 1192, Class 2. Door leaf; Core: laminated solid timber or 3 layer particleboard solidcore. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. Facings: Veneered MDF or plywood. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over. Finish as delivered: 2 coats matt lacquer. Frame: As clause 330. Closer: Concealed overhead. Architrave: As clause P20/120A. Glazing/ infill details: Infill panels: Insulating glass unit with hardwood beads - refer to architectural drawings. Include for Ironmongery. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification. Submittals, include also for all necessary packer pieces, paint / decoration to door leaf and frame, etc. complete: all per Architect's Specification L20B/430D					
	Single Doorsets					
A	Doorset Type CB;- 1,115 x 2,390 high; with 700mm wide x 2000mm high glazed vision panel (Glazing taken elsewhere) (FD60s). Include for supply and fitting ironmongery SET KC1003	2	no			
B	Extra Over for Glazed side panel / screen 1100mm wide x 2390mm high (FD60s)	2	no			
	Ironmongery					
	Supply and Fit the following Ironmongery to Existing Salvaged Timber Doorsets, all per Architects & Conservation Architect's Specifications					
C	Frisco Stainless Steel Maintenance Free Self Lubricating Thrust Bearing Hinge to hEN1935 grade (4)(7)(6)(1)(1)(4)(0)(14) and Certifire CF336	57	No.			
D	KCC Architectural Slimline EN2-5 Cam Action Slide Channel Door Closer c/w Backcheck by Cushion Stop to hEN1154 grade (3)(8)((5)/(2))(1)(1)(3) and Certifire CF6159	17	No.			
E	KCC Round Bar Pull Handle. Grade 304 Stainless Steel. A25 x B400 x C375 x D75. BT Fixing	6	No.			
F	KCC Floor Mounted Door Stop	19	No.			
G	KCC Stainless Steel 304 Square Corner Finger Plate. W75 x L430	6	No.			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	KCC Stainless Steel 304 Square Corner Kicking Plate. H150 x W900	36	No.			
B	KCC Stainless Steel 304 Square Corner Kicking Plate. H150 x W400	2	No.			
C	KCC Grade 304 Stainless Steel 'Fire Door Keep Shut' Sign - White Text	24	No.			
D	Flexfire Fire Rated Graphite Based Intumescent Hingeplate Protector, 2mm, Black, Self Adhesive	72	No.			
E	Flexfire Fire Rated Graphite Based Intumescent KCC Lock Protector, 2mm, Black, Self Adhesive	11	No.			
F	KCC Heavy Duty Modular Mortice Sashlock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade (3)x(5)(1)(0)F(3)BC(2)(0) and Certifire CF5234	4	No.			
G	Tigris R Premium, Patented Single & Turn Cylinder 3535 to BS EN1303:2015 grade (1)(6)(0)B(0)C(6)B./C. Masterkeyed 2 Keys	12	No.			
H	KCC Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade (4)(7)-B(0)(4)(0)U	12	Sets			
J	KCC Stainless Steel 304 Euro Profile Escutcheon. 5mm	24	No.			
K	KCC Lever Action Flush Bolt, Grade 304 Stainless Steel. W19 x L205. Radius Corner	2	No.			
L	KCC Sprung Loaded Dust Excluding Socket	1	No.			
M	KCC Heavy Duty Modular Mortice Sashlock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade (3)(5)(1)(0)F(3)B(2)(0) and Certifire CF5234	12	No.			
N	KCC Grade 304 Stainless Steel Unisex Symbol	4	No.			
	Glazing					
	Glazing to Door Leafs; Safety glazing in accordance with BS6262 Part 4, and Diagram 1 from TGDC. Fire rated where specified. Include for extruded gaskets, etc. bedded in pyroglaze fire seal and secured with glazing beads to timber background to fire rated doors / screens. All per Architect's drawings and Specification L40					
P	Area 0.15 - 4m2	7	m2			
Q	Area <0.15m2 Circular Vison Panels (30min Fire rating)	3	m3			
R	Area 0.15 - 4m2 (30min Fire rating)	26	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Area <0.15m2 Circular Vison Panels (60min Fire rating)	1	m3			
B	Area 0.15 - 4m2 (60min Fire rating)	9	m2			
	Sundries					
	Apply permanent manifestation patches; Acid etched dots or lines; all per architects specification L40/630 & drawings.					
	Manifestation to;					
C	Standard Glass	7	m			
D	30min Fire Rated Glass	25	m			
E	60min Fire Rated Glass	8	m			
	Painting and Decorating					
	Prepare and paint Dulux system D1213 or Equivalent, new interior hardwood and non resinous softwood. Preparation: New wood should be ideally preservative impregnated, see BS 5268 and BS 5589. Clean to ensure free from dirt and grease etc. Remove oils from surface of wood by wiping with Dulux thinner 41 or White spirit. Abrade to remove sharp edges and any raised grain. Treat knots and resinous areas by removing resin and applying a thin coat of Dulux Knotting solution, serious troublesome knots should be cut out and replaced with sound wood. Ensure all surfaces are fully dry before proceeding. Initial coats: one coat Dulux MDF primer undercoat thinned 1 to 5 as manufacturers recommendations. Finishing coats: Two coats Dulux Trade Diamond Eggshell Finish. All as per Architects drawings and Achitects specification clause M60 - 175A.					
	Door Architrave,					
F	girth <300mm	499	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/7/1					
Page No. Conv/7/2					
Page No. Conv/7/3					
Page No. Conv/7/4					
Page No. Conv/7/5					
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Page No. Conv/7/11					
Page No. Conv/7/12					
Page No. Conv/7/13					
Page No. Conv/7/14					
Page No. Conv/7/15					
(32) INTERNAL WALL COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(33) & (34) FLOOR & STAIR COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings & Engineers Drawing Nos.					
	This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
	For detailed description of workmanship and materials see specification.		Note			
	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Notes:					
	1. The tenderer is required to provide and fix all fixings, supports etc. which may be necessary to complete the works.		Note			
	2. "Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, Fourth Edition 2009, the Tenderer should note the following deviations at:		Note			
	(a) grouting, drilling/forming holes in other construction for fixings deemed to be included within the referenced unit rate item		Note			
	Service Shafts					
	Graepel Flooring or Equivalent to be provided in all Service Risers at Floor Levels, all as per Engineer's Detail F on Drawing DR-S-4000. Approx size of service shaft					
B	1200mm x 600mm	3	No			
C	1150mm x 600mm	6	No			
	Extra Over for					
D	All necessary cutting / adjusting for services		Item			
	Equal Angles Fixed Into Walls With M16 Chemical Anchor Bolts At 400mm Max Centers					
E	100mm x 100mm x 10mm	32	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK: Boarding and Second Fixings					
	Extending Handrails to Existing Stairs					
	Handrails: Hardwood Handrail fixed to rendered Blockwork, include for decoration, brackets etc. complete, all to match existing handrail to stairs. Fixings to be to contractor design to suit loading requirements as required by Building Regulations. All as per Architects Drawings and Specification					
A	handrail fixed to wall; horizontal	2	m			
B	ditto; raking	3	m			
C	e/o for bends, 90 degree	1	no			
D	e/o for ends	1	no			
E	e/o for forming neat connection with existing handrail. include for preparing existing handrail to receive new extended handrail	1	no			
	Painting and Decorating					
	Prepare and paint Dulux system D1213 or Equivalent, new interior hardwood and non resinous softwood. Preparation: New wood should be ideally preservative impregnated, see BS 5268 and BS 5589. Clean to ensure free from dirt and grease etc. Remove oils from surface of wood by wiping with Dulux thinner 41 or White spirit. Abrade to remove sharp edges and any raised grain. Treat knots and resinous areas by removing resin and applying a thin coat of Dulux Knotting solution, serious troublesome knots should be cut out and replaced with sound wood. Ensure all surfaces are fully dry before proceeding. Initial coats: one coat Dulux MDF primer undercoat thinned 1 to 5 as manufacturers recommendations. Finishing coats: Two coats Dulux Trade Diamond Eggshell Finish. All as per Architects drawings and Achitects specification clause M60 - 175A.					
	Handrail					
F	girth <300mm	5	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Samples		Item			
B	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/8/1					
Page No. Conv/8/2					
Page No. Conv/8/3					
(33) & (34) FLOOR & STAIR COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(37) ROOF COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawing Nos. 390, 391, 414, 915		Note			
B	The Structural Engineer's & Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	For detailed description of workmanship and materials see specification		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Glazing					
	AOV to top of Stairwell					
	Glazed AOV smoke vent with insulated upstand at the top of common access protected stairway enclosures. Natural smoke and heat exhaust ventilators in accordance with IS EN 12101. Type: Glazed. Shape:: Square units generally. Note: In instances where the ceiling opening is to be circular. the AOV is to be oversized as a square unit to ensure that the minimum free area requirements are achieved within the circular area. Ventilation requirements:: Minimum free area of 1m2, in accordance with Para 6.2.1 of the TGD- B: 2024. Mounted to structural steel architectural details for integration with roof membrane / waterproofing as specified in Section J10. Operation: The vents will be automatically opened by the fire detection and alarm system, on activation of smoke detectors in the stairway enclosure/ on activation of the smoke control system as specified by Mechanical & Electrical Engineer, and will also be manually openable for fire brigade use. The manual override will be provided at ground/fire service entrance level to the stairs and the provided with clear signage as to its function and operation, for fire service use only. AOV's will comply with IS EN 12101-2. Where any part of the control mechanism is powered by electricity, a secondary supply will be provided. Integration of control system: Refer to Mechanical & Electrical Engineer specfications and drawings. Finish as delivered: Principal components polyester powder-coated. Seals: Glass silicone seal joint. Two double seals around perimeter using EPDM rubbers. Guards: Security. Typical U-value: 1.4W/m. Air permeability: : Class 4 in accordance with EN 12207. Watertightness: Class 7A in accordance with EN 12208. Glazing details:: Fire rated A1 in accordance EN 13501. Accessories/ special features: Smoke Control System: As required to complete the commissioning of the smoke control system including, but not limited to the following: -Fireman's override switches, -Key switches -MCC Panel, -Pressure sensors. Refer to Mechanical & Electrical Engineers drawings and specifications for more details. Include for hoisting and fixing to and including top of upstands. Include also for all necessary airtight seals, EPDM, flashings, mastic pointing, insulation, side vents, fixing brackets etc. complete to composite built up flat roof, all in accordance with the manufacturers instructionsv.All as per Architects drawings and Specification Section L10/490A					
A	AOV 3 - 1,500mm x 1,500mm	1	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extra over for supply and fixing of matching aluminium pressed metal flashing to perimeter of AOV. Include for all necessay treated grounds, brackets, EPDM, lapped with roof membrane, sundry mineral wool insulation, etc. complete all per Architect Drawing 391 and Specification. Girth 450mm - 600mm - 4 times cranked	8	m			
B	Extra over for providing for Roof Access: Maintenance access will be provided to the roof via AOV. Include for Ladder hook fixings will be required as fixing point for temporary ladder when in use.		Item			
	AOV to top of Smoke Shaft					
	Automatically operating opening vents at the top of smoke shafts provided in existing building as part of smoke extract system to achieve compliance with TGD Part B. Specialist Design Requirements: Ventilators are to be designed and commissioned by specialist sub-contractor in accordance with requirements outlined in Mechanical & Electrical drawings and specifications. Standard: Natural smoke and heat exhaust ventilators in accordance with IS EN 12101. Type: Flap. Shape:: Rectangular (max:2-1 ratio). Ventilation requirements:: To be specified by specialist subcontractor to achieve compliance with TGD Part B. Mounted to Reinforced concrete / blockwork upstands (elsewhere measured) Include for integration with roof membrane / waterproofing as specified in Section J10. Integration of control system: Refer to Mechanical & Electrical Engineer specifications and drawings. Finish as delivered: Principal components polyester powder-coated. Typical U-value: 1.4W/m. Air permeability: : Class 4 in accordance with EN 12207. Watertightness: Class 7A in accordance with EN 12208. Fixing: As per manufacturers recommendations. Include for hoisting and fixing to and including top of upstands. Include also for all necessary airtight seals, EPDM, flashings, mastic pointing, insulation, side vents, fixing brackets etc. complete to composite built up flat roof, all in accordance with the manufacturers instructions. All as per Architects Drawings and Specification Section L10/490B					
C	circa 800mm x 1300mm on plan	2	no			
D	Extra over for supply and fixing of matching aluminium pressed metal flashing to perimeter of AOV. Include for all necessay treated grounds, brackets, EPDM, lapped with roof membrane, sundry mineral wool insulation, etc. complete all per Architect Drawing 391 and Specification. Girth 450mm - 600mm - 4 times cranked	13	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Edge Guarding					
	Composite Items. Grade 316 Stainless Steel					
	Parapet Handrail;- Side fixed metal balustrade installed to inner face of existing masonry parapet to raise the guarding height level to 1100mm above External FFL. Contractor Responsibility: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. System manufacturer: Submit proposals. Performance: As clause 220. Guarding; Material: Grade 316 Stainless steel. Rail Cross section: Refer to architectural drawings for design intent. Material: Grade 316 Stainless steel. Finish: Milled. Verification: Submittals; all as per Architects Drawing 915 and Specification Section L72/160A & Q41/250					
A	1,100mm high above finished Roof Level	28	m			
	Extra over for;					
B	Corners	1	no			
C	Ends	4	no			
	Access Ladder					
	Provide Ladder for access to AOV in convent. Type: Access Ladder with lockable security panel. Contractor Design: The contractor shall be responsible for design of access ladder to meet safe access & maintenance requirements. Access Strategy: Ladders in permanent position with lockable security panel. Manufacturer: Submit proposals. System reference: Submit proposals. Position and dimensions: To suit access to AOV, submit drawing proposals. All per Architects Specification N25/131					
D	Internal Ladder to access Upper Roof Level Circa 3,500mm high	1	no			
E	External Ladder to access Upper Roof Level Circa 2,000mm high	1	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Fall Arrest System					
	Continuous fall arrest system to perimeter of flat roof					
	Fall Restraint system to all roof areas. Manufacturer: Skyway or Equivalent. Product reference: Kee Line (Kee Line) or Equivalent. Pre-installation survey: Coordinate with main contractor. Structural anchors: Structural anchors for membrane roofs. Anchor line: Stainless steel wire ropes. Ancillary equipment: Provide harness and lanyard compatible with system. Standards: To EN 795 2012; OSHA Code 1910.140(c)(11-22); CEN TS 16415:2013; ANSI Z359; CSA Z259; AS/NZS 1821. Anchorage device: Horizontal stainless steel cable. Anchorage substrate: Roof as J41.110. contractor to ensure fall arrest system design is compatible with roof waterproofing system. Overall system length: To suit access requirements on roof - contractor submit design proposal. Intermediate support spacing: To specialist contractor's design. Accessories/ Other requirements: -To include permanent vertical fall arrest system at ladder access points. Temporary access ladder and fixing points. Installation: In accordance with BS 7883 by the system manufacturer or a contractor approved by the system manufacturer. all in accordance with the Architect's Specification N25/210A & Drawing 414					
A	Stainless steel cable attached to and including Constant force posts bolted to flat insulated roof with Plywood deck.	43	m			
	Supply the following personal protective equipment. To be used by trained personnel only;					
B	Full body harness with front and rear attachment devices	2	no			
C	Standard 2m shock absorbing lanyard	2	no			
D	10m rope and grabs	2	no			
E	Attachment shuttles	2	no			
	Allow for the following items as specified					
F	Engineers certificates	1	item			
G	test certificate (covering 12 month period) and compliance notice attached to system at access point	1	item			
H	operating instructions and markings	1	item			
J	operating, maintenance and equipment manual	1	item			
K	training for clients personnel	1	item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	safety inspection log book	1	item			
B	shop drawings	1	item			
C	as installed drawings	1	item			
D	service and maintenance	1	item			
E	warning notices	1	item			
	Single Point Anchorage Devices					
F	Single Point Anchorage Devices to IS/EN. To specialists design. Material/ Finish: stainless steel, non-ferrous, grade 316. Locations: refer to drawings. Installation: In accordance with IS/EN. Provide with each anchor: (i) A backing disc giving the manufacturer's name and telephone number and the date of installation. (ii) A certificate of compliance with testing and examination requirements of IS/EN All per Architects Drawings and Specification	4	No.			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/9/1					
Page No. Conv/9/2					
Page No. Conv/9/3					
Page No. Conv/9/4					
Page No. Conv/9/5					
Page No. Conv/9/6					
(37) ROOF COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(41) EXTERNAL WALL FINISHES					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	FLOOR, WALL AND CEILLING FINISHINGS: In-Situ Finishes					
	External Render - Lime plasters Diathonite					
	Re-rendered with a breathable insulating lime render. Ensure existing Masonry is free of all mortar, debris and dust in advance of re-rendering. Masonry to be dampened down prior to application. Cork lime render to be applied to a minimum depth for each coat as detailed in the architectural specification. Minimum curing period of 24 hours between each coat. Coats to be applied using mechanical system. Where undulations occur in the wall, minimum coverage depth is to meet 40mm. Where this results in sections deeper than 50mm a plaster mesh shall be used to improve adherence of coats. The insulating lime render referred to in this specification shall comprise a breathable lime-based binder incorporating cork aggregate, designed for use on historic masonry. The system shall be vapour-permeable, capillary active, and compatible with the existing substrate. The render build-up shall include: -lime-based binder appropriate to the exposure conditions, -cork aggregate for thermal enhancement, -non-corroding reinforcement mesh where required, -total thickness limited to that necessary to achieve performance without compromising historic detailing. The use of metal beads is not permitted. All per Architect's Drawings and Spec M20/240 and Conservation Architect's Specification 3.17					
	Existing External Masonary Wall - 30mm externally - overall to achieve U-Value of 0.44W/m2k					
A	> 300mm wide	964	m2			
B	> 300mm wide (Inner face of Parapet Wall)	36	m2			
C	< 300mm wide to reveals	279	m			
D	< 300mm wide Arched Window Head	20	m			
	Extra over for forming New Matching Mouldings mainly to Front Elevation: Include for recording existing Moulding Profiles to be recreated in new render.					
E	Forming Plinth 800mm high	30	m			
F	Horizontal Band Moulding at 1st Floor Level approx. 300mm wide	28	m			
G	Ditto at Roof Level approx 150mm wide	28	m			
H	Ditto at Roof Level approx 100mm wide	28	m			
J	Ditto to bell tower at high level approx 100mm wide	10	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Ditto under Underside of Parapet Capping approx 100mm wide	28	m			
B	Vertical Band Moulding to surrounds of windows at 1st Floor Level approx. 250mm wide	45	m			
C	Ditto of windows to Bell Tower approx. 100mm wide	11	m			
D	Curved Band Moulding to arched heads of windows at 1st Floor Level approx. 250mm wide	17	m			
E	Ditto of windows to Bell Tower approx. 100mm wide	4	m			
F	Circular Moulding at high level to Bell Tower, approx. 600mm diameter	2	No			
G	Circular Moulding over 1st floor Window, approx. 500mm diameter	1	No			
H	Rectangular Mouldings under windows at 1st Floor Level approx. 1,200mm x 400mm	6	No			
J	Extra over for the careful protection and aftercare of lime render all per Conservation Architect's Specification 3.17.3		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	External Wall to Ground Floor Extension					
	Vertical timber weatherboarding					
	Secret fix timber cladding to external face of GF extension at convent building. Fire performance. Standard:: As clause 220. Include for Gutex Multitherm or equivalent hydrophobized tongued and grooved insulation board (compressive strength 70kPa/tensile strength 7.5kPa/thermal conductivity 0.040W/mK), Thermal insulation: Gutex thermoflex or equivalent flexible wood fibreboard insulation board (thermal conductivity 0.036W/mK). Breather membrane: As clause 130. Treated Counter battens aligned with studs. Treated Battens at 400 mm centres. Boarding; Standard: To IS EN 14915, EN 942:2017. Quality of timber (exposed surfaces):. Use class: EN 335, Class 4. Apperance class: EN 942: Class J2. Species: Quercus Robur (European white oak heartwood). or equivalent suitable hardwood as per Appendix C of BS1186 - Submit proposals to Architect for approval prior to order. Finished face dimension (overall width): Refer to architectural drawings. Finished thickness: 25 mm. Moisture content at time of fixing: 13-19%. Treatment: Standard:: To I.S. EN 350:2016 Class 1. Service life: 30 years. Method of fixing to each support: Grade A2 stainless steel screws (SIHGA or equivalent), predrilled, at 300mm centres; All in accordance with Architect's Drawings 317 and Specification Clause H21/110					
A	> 300mm wide	15	m2			
B	< 300mm wide	3	m			
	Extra Over for					
C	Corner Detail per Architect's Drawing 317	8	m			
D	Connect Detail with Existing Building including forming shadow gap per Architect's Drawing 317	8	m			
E	Powder Coated Aluminium Flashing to close cavity, include for all fixings, sealants etc. complete per Architect's Drawing 317	20	m			
F	Insect Mesh to head of Door / Screen ope include for all fixings, sealants etc. complete per Architect's Drawing 317	13	m			
G	Lead Flashing < 150mm girth to head of Door / Screen ope include for all fixings, sealants etc. complete per Architect's Drawing 317	13	m			

Description	Qty	Unit	Rate	€	c
External Wall to Roof Level Extension Rendered external wall insulation system by Tradecraft Limited or equivalent. Reaction to Fire system performance in line with BS EN 13501-1: A2. Board adhesive:: Pariso Mince Caliso Adhesive Coat, to be applied either as a complete coverage to the insulation board or as a ribbon around the board and a minimum of 3 dabs across the centre line to give a minimum of 40% coverage once applied. Take care to ensure no adhesive encroaches between insulation boards to prevent the risk of thermal bypass to be applied no more than 15mm in thickness. Insulation: Mineral wool to BS EN 13162. Thermal conductivity:: 0.036 W/Mk. Board size: 1200 x 600mm. Density: 110 kg/m3. Minimum compressive strength: Compressive Strength 10 kPa. Method of fixing: Mechanical Fixing. Insulation - base plinth level: XPS insulation suitable for wet areas. Thermal conductivity:: 0.033W/mK. Mechanical fixing:: Rawlplug KI10 Masonry Anchor. Fixing type is hammer fixing with expansion pin. Length to be minimum of 135mm (insulation thickness + board adhesive thickness + existing render thickness + 35mm minimum embedment). Fixing length and quantity may change subject to pull out test results and wind loads for the building. Base coat:: Pariso Mince Maite to be applied 4 to 6mm. Ensure base coat is fully adhered to insulation, covers all fixing heads and all appropriate beads. Should the Pariso Mince Maite be required in two passes, ensure second pass is applied minimum 24 hours after the first.					

	Description	Qty	Unit	Rate	€	c
	Ensure IAVPC Mesh is no more on third in from the front line of Pariso Mince Maite base coat. Reinforcing Mesh: IAVPC Mesh. Mesh weight 160g/m2. Minimum edge overlap at joints 100mm. When installing, ensure it is encapsulated in the outer third of the Pariso Mince Maite base coat. At the corners of all opening install a mesh patch 300 x 300mm at 45 degrees to the main mesh layer. Install a mesh patch over all penetrations at 45 degrees to the main mesh layer ensuring a minimum 150mm edge distance from the patch to the penetration. For high impact areas install the following (no overlap at joints) prior to the application of the IAVPC Mesh. Primer:: Revlane+ Regulatuer: Acrylic dispersion priming coat, Colour as per decorative finish coat to be roller, brushed or spray applied ensuring 100% coverage of Pariso Mince Maite base coat in one coat. Coverage 0.25kg per m2. Allow 2 to 12 hours, depending on temperature and humidity, prior to the application of the finish coat. Decorative finish:: Revlane+ Siloxane Ignifuge. Grain size 1.6mm, Taloche Gros, Colour as per project design. To be applied using a plastic float and textured as per the sample reference panel. When applying it is important to keep a wet edge on the material. Coverage 8 to 10m2 per tub. Include for all necessary Beads/ trims & Base Track; Mill finished aluminium box base track. Length 2.5m All adjoining lengths to be connected using connection clips to facilitate line and level and linear expansion. All corners to be mitred, not butt jointed. Fixed at maximum 300mm centres back to the substrate. Include also for all necessary Gun applied sealant Sika EB25 to be applied as a surface sealant at all junctions, UpVC Frame seal bead with mesh wing etc complete; All in accordance with the Works Requirements and in particular Architects Specification Clause M21/210					
	To Lightweight SFS External Walls to Roof Level Extension - To achieve U-Value of 0.17W/m2K					
A	> 300mm wide	86	m2			
B	< 300mm wide to reveals	5	m			
C	< 300mm wide reveals to Circular Windows approx. 900mm diameter	15	m			
D	Extra over for neatly working around support steel beams for Brise Soleil, incl for all necessary seals, flashings etc complete.	9	No.			
	To Face of Reinforced Concrete Upstand to underside of Curtin Walling to Roof Level Extension - To achieve U-Value of 0.17W/m2K					
E	< 300mm wide	22	m			

	Description	Qty	Unit	Rate	€	c
	Sundries					
	Plaster Beads / Stops for external use; STANDARD: In accordance with BS EN 13914-1, Table 4; ; all in accordance with the Works Requirements and in particular Architects Specification Clause M21/120					
	uPVC Beads					
A	Angle beads; thin coat corner bead with mesh wings (100 x 150mm mesh wing)	7	m			
B	Render stop bead:: 6mm Render Stop Bead	138	m			
C	6mm Surface Mounted Movement Bead	11	m			
	Stainless steel Beads					
D	Vertical full depth movement bead	15	m			
	Aluminium Beads					
E	Horizontal movement bead	58	m			
	Cill / Flashings					
F	Aluminium flashings / Cill. Polyester Powdercoated with anodic paint finish. 300mm - 450mm girth, 3 times cranked. Include for insulation, EPDM to P10/310, and EPDM carrier, support brackets etc. complete all as per Architectural drawing 310 and Specification H72.	35	m			
G	Corners	2	no			
H	Ends	2	no			
	Decoration					
	Breathable paint suitable for external use on lime plaster. Manufacturer: Auro or Equivalent. Product reference: Ecolith or Equivalent. Surfaces: Diathonite lime plaster. Preparation: Clean down all surfaces. To manufacturer's recommendations. Standard: EN1504-2. Initial coats: Prime with AURO Plaster Primer - to manufacturer's recomendation. Colour: Allow for full colour range. Finishing coats: 3 coats of Auro Ecolith. All in accordance with the Works Requirements and in particular Architects Specification M60/ 110 and Conservation Architects Specification 3.18					
	Walls					
J	> 300mm wide	944	m2			
K	< 300mm wide to reveals	279	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	< 300mm wide Arched Window Head	20	m			
	Mouldings					
B	Plinth 800mm high	30	m			
C	Horizontal Band Moulding at 1st Floor Level approx. 300mm wide	28	m			
D	Ditto at Roof Level approx 150mm wide	28	m			
E	Ditto at Roof Level approx 100mm wide	28	m			
F	Ditto to bell tower at high level approx 100mm wide	10	m			
G	Ditto under Underside of Parapet Capping approx 100mm wide	28	m			
H	Vertical Band Moulding to surrounds of windows at 1st Floor Level approx. 250mm wide	45	m			
J	Ditto of windows to Bell Tower approx. 100mm wide	11	m			
K	Curved Band Moulding to arched heads of windows at 1st Floor Level approx. 250mm wide	17	m			
L	Ditto of windows to Bell Tower approx. 100mm wide	4	m			
M	Circular Moulding at high level to Bell Tower, approx. 600mm diameter	2	No			
N	Circular Moulding over 1st floor Window, approx. 500mm diameter	1	No			
P	Rectangular Mouldings under windows at 1st Floor Level approx. 1,200mm x 400mm	6	No			
	Concrete					
Q	Cills < 300mm girth	72	m			
R	Parapet Capping < 300mm girth	39	m			
S	Parapet Capping 300mm - 600mm girth	50	m			
T	Circular Columns	12	m2			
U	Ceiling Soffit of Porch	11	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	2 coats of Osmo Clear Natural Oil Woodstain Oak OR equivalent applied with flat brush or microfibre roller to Vertical timber weatherboarding. All in accordance with Architect's Specification Clause H21/110					
A	> 300mm wide	15	m2			
B	< 300mm wide	3	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/10/1					
Page No. Conv/10/2					
Page No. Conv/10/3					
Page No. Conv/10/4					
Page No. Conv/10/5					
Page No. Conv/10/6					
Page No. Conv/10/7					
Page No. Conv/10/8					
Page No. Conv/10/9					
(41) EXTERNAL WALL FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(42) WALL FINISHES INTERNALLY					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Stud Partitions (Fire rated where specified))					
	Metal Stud Partition System REI60 Shaftwall					
	60 min fire rated partition for use forming compartment walls where access is available to one side only during construction. Partition type: Shaft wall - 2 x 12.5mm Gyproc fireline to room side and Gyproc coreboard between studs secured by gypframe retaining channel. 25mm isover acoustic roll in cavity. Centres: As per manufacturers guidelines to achieve require performance. Head condition: Existing reinforced concrete ribbed slabs. Deflection allowance: 25 mm maximum. Structural performance: Strength grade: To BS 5234-2, Grade 'Medium duty' (MD). Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm. Other requirements: Allow for weight of ceramic tiles, as section M40. Fire performance: Reaction to fire: A2 - s3, d2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. Fire separation. Services integration: The integrity of partition should not be breached to allow for the installation of services, e.g. pipes, wires, flues etc except where necessary to allow services pass through these compartment walls. Where services pass through these compartment walls or floors, they should be contained in fire-resistant ducts, and the opening of such ducts should be protected and fire-stopped. Baffle boxes are not accepted. Acoustic performance. Standard: IS EN ISO 717. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 53. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. Insulation: As recommended by board manufacturer to meet specified performance. Resilient layer: As recommended by board manufacturer to meet specified performance. Linings: Two layers 15 mm plasterboard as clause 404. - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer. Other requirements: Fire-stopping around services as section P12. Complete all per Architect's drawings & specification K10/115F.					
A	Height average 3,600mm	19	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Angles to partitions;	5	No			
C	Three -way intersection;	6	No			
D	Fair Ends	1	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Abutting other finishes	21	No			
B	Grounds to support sanitary ware, etc.		Item			
C	Grounds to support kitchen fittings, etc.		Item			
D	Height average 2,950mm	25	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
E	Angles to partitions;	10	No			
F	Three -way intersection;	8	No			
G	Abutting other finishes	20	No			
H	Grounds to support sanitary ware, etc.		Item			
J	Grounds to support kitchen fittings, etc.		Item			
K	Moisture resistant board per Architect's Specification	9	m2			
L	Seal gap between top of stud wall and underside of existing ribbed concrete floor slab, to achieve 60min FR. Include for sealing troughs in ribbed floor slab.	44	m			
	Metal Stud Partition System NFR Non-fire rated partition for general use demising rooms. Partition type: Single row 70mm C studs. Centres: As per manufacturers guidelines to achieve require performance. Head condition: Existing concrete ribbed slabs. Deflection allowance: 25 mm maximum. Structural performance. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD). Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm. Fire performance. Reaction to fire: Class B - s3-d2. Acoustic performance. Standard: IS EN ISO 717. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance. Resilient layer: As recommended by board manufacturer to meet specified performance. Linings: One layer 12.5 mm Wallboard each side - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer. Complete all per Architect's drawings & specification K10/115D.					
M	Height average 3,600mm	33	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Angles to partitions;	4	No			
B	Three -way intersection;	7	No			
C	Abutting other finishes	16	No			
D	Grounds to support sanitary ware, etc.		Item			
E	Grounds to support kitchen fittings, etc.		Item			
F	Height average 3,250mm	33	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
G	Angles to partitions;	5	No			
H	Three -way intersection;	3	No			
J	Abutting other finishes	15	No			
K	Grounds to support sanitary ware, etc.		Item			
L	Grounds to support kitchen fittings, etc.		Item			
M	Height average 2,950mm	58	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
N	Angles to partitions;	12	No			
P	Three -way intersection;	9	No			
Q	Fair Ends	5	No			
R	Abutting other finishes	21	No			
S	Grounds to support sanitary ware, etc.		Item			
T	Grounds to support kitchen fittings, etc.		Item			
U	Moisture resistant board per Architect's Specification	267	m2			
V	Seal gap between top of stud wall and underside of existing ribbed concrete floor slab. Include for sealing troughs in ribbed floor slab.	117	m			

	Description	Qty	Unit	Rate	€	c
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
A	Structural ope 800-1050mm wide x 2100mm high (Single doors)	22	No			
B	Structural ope 1300-1800mm wide x 2100mm high (Double doors)	1	No			
	Metal Stud Partition System REI60 60 min fire rated partition for use forming compartment walls. Partition type: Single row 70mm C studs. Centres: As per manufacturers guidelines to achieve require performance. Head condition: Existing ribbed concrete slabs. Deflection allowance: 25 mm maximum. Structural performance. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD). Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm. Other requirements: Allow for weight of ceramic tiles, as section M40. Fire performance. Reaction to fire: A2 - s3, d2. Fire resistance of complete partition assembly: 60 minutes fire resistance for load bearing capacity, insulation and integrity in accordance with EN 1364-1:1999/ EN 1365 1:2012/EN1365-2:2000. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. Fire separation. Services integration: The integrity of partition should not be breached to allow for the installation of services, e.g. pipes, wires, flues etc except where necessary to allow services pass through these compartment walls. Where services pass through these compartment walls or floors, they should be contained in fire-resistant ducts, and the opening of such ducts should be protected and fire-stopped. Baffle boxes are not accepted. Acoustic performance. Standard: IS EN ISO 717. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 53. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. Insulation: As recommended by board manufacturer to meet specified performance. Resilient layer: As recommended by board manufacturer to meet specified performance. Linings: Two layers 15 mm plasterboard as clause 404 each side - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer. Other requirements: Fire-stopping around services as section P12. Complete all per Architect's drawings & specification K10/115A.					
C	Height average 3,250mm	5	m			

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Abutting other finishes	2	No			
B	Grounds to support sanitary ware, etc.		Item			
C	Grounds to support kitchen fittings, etc.		Item			
D	Height average 2,950mm	19	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
E	Angles to partitions;	2	No			
F	Three -way intersection;	3	No			
G	Abutting other finishes	8	No			
H	Grounds to support sanitary ware, etc.		Item			
J	Grounds to support kitchen fittings, etc.		Item			
K	Enclosing Ope above Cross Corridor Doors approx. 2,100mm wide x 1,500mm high	3	No			
L	Ditto approx. 2,100mm wide x 1,150mm high	3	No			
M	Ditto approx. 2,100mm wide x 850mm high	5	No			
N	Seal gap between top of stud wall and underside of existing ribbed concrete floor slab, to achieve 60min FR. Include for sealing troughs in ribbed floor slab.	23	m			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
P	Structural ope 800-1050mm wide x 2100mm high (Single doors)	2	No			
Q	Structural ope 1300-1800mm wide x 2100mm high (Double doors)	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Wall lining system (metal studs) Acoustic & services Independent wall lining system to provide acoustic separation and accommodate building services. Partition type: 30mm Gypframe lining channel - or equivalent. Centres: 300mm unless otherwise instructed as per manufacturers guidelines to achieve require performance. Services zone depth (between studs): 50mm. Wall lining height: 3000mm. Intermediate bracing: As per manufacturers guidelines to achieve require performance. Head condition. Deflection allowance: 25mm maximum Structural performance. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD). Pattressing: 12 mm Plywood to be installed between studs between 600mm and 1200mm. Other requirements: Allow for weight of ceramic tiles, as section M40. Fire performance. Reaction to fire: Class B - s3-d2. Fire resistance of complete wall lining assembly: NFR. Acoustic Performance:. Standard: IS EN ISO 717. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1:: 59. Metal framing: Type recommended by board manufacturer to complete the partition system and achieve specified performance.. Insulation: glass mineral wool insulation infill batt. Recycled content: 50% (minimum) to BS EN ISO 14021. Resilient layer: As recommended by board manufacturer to meet specified performance. Linings: One layers 15 mm plasterboard as clause 401. - Unless otherwise recommended by board manufacturer to meet specified performance. Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Accessories: Beads/ stops as recommended by board manufacturer. Complete all per Architect's drawings & specification K10/145A.					
A	Height average 3,250mm	29	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Angles to partitions;	10	No			
C	Three -way intersection;	5	No			
D	Abutting other finishes	28	No			
E	Grounds to support sanitary ware, etc.		Item			
F	Grounds to support kitchen fittings, etc.		Item			
G	Height average 2,950mm	12	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
H	Angles to partitions;	3	No			
J	Three -way intersection;	4	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Fair Ends	1	No			
B	Abutting other finishes	14	No			
C	Grounds to support sanitary ware, etc.		Item			
D	Grounds to support kitchen fittings, etc.		Item			
	Timber Panelling					
E	Contractor rates to include Fire retardant impregnation treatment: ECO F grade (Euroclass B1 s2d0) to all Veneered Panels all as per Archiect's Specification N10		Item			
	Oak Veneer Panelling, Demountable to allow access to services, fixed to and including timber grounds / framework, fixed to face of existing rendered masonary walls. Include for for all necessary hidden fixings, decoration, seals, etc. complete all per Architect's Drawing 536 and Specification					
	Lift Panel Elevation - Architect's Detail 02/536					
F	2,800mm wide x 2,900mm high	1	No			
G	2,800mm wide x 2,500mm high	2	No			
	Extra Over For					
H	Cut out for Lift Doors 1,100mm wide x 2,200mm high, with matching panels to reveals	3	No			
J	Closing end detail with matching panel <150mm wide	8	m			
K	Cut out for M&E services and Lift controls as indicated on Architect's & M&E Drawings.		Item			
	Panel Elevation 2 - Architect's Detail 03/536					
L	3,200mm wide x 2,900mm high	2	No			
M	3,200mm wide x 2,500mm high	1	No			
	Extra Over For					
N	Cut out for Doors 1,450mm wide x 2,100mm high, with matching panels to reveals	1	No			
P	Cut out for Doors 900mm wide x 2,500mm high with arched head, with matching panels to reveals	1	No			
Q	Cut out for Window 1,200mm wide x 2,200mm high, with matching panels to reveals	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Closing end detail with matching panel <150mm wide	9	m			
B	Cut out for M&E services as indicated on Architect's & M&E Drawings.		Item			
	Entrance Panelling Elevation - Architect's Detail 05/536 & 06/536					
C	4,200mm wide x 3,300mm high	2	No			
	Extra Over For					
D	Cut out for Door / Screen 2,300mm wide x 2,100mm high, with matching panels to reveals	1	No			
E	Cut out for Doors 1,000mm wide x 2,100mm high, with matching panels to reveals	1	No			
F	Cut out for M&E services as indicated on Architect's & M&E Drawings.		Item			
	Panel Elevation - Architect's Detail 01/431 & 03/431 & 05/431 & 07/431					
G	5,200mm wide x 3,000mm high	4	No			
	Extra Over For					
H	Cut out for M&E services as indicated on Architect's & M&E Drawings.		Item			
	Low level Dado Box-out - Architect's Detail 04/536					
J	94mm wide x 170mm high	7	m			
	Oak Dado Panelling. 130mm T&G Oak Panelling. Demountable to allow access to services, fixed to and including timber grounds / framework, fixed to face of existing rendered masonary walls. Include for for all necessary hidden fixings, decoration, seals, etc. complete all per Architect's Drawing 536 and Specification					
	Dado Panelling - Architect's Detail 01/536					
K	1,075mm high	28	m			
	Extra Over For					
L	Closing end detail with matching panel <150mm wide	3	m			
M	Cut out for M&E services as indicated on Architect's & M&E Drawings.		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Top detail, including profiled oak hardwood piece 120mm wide x 35mm and 20mm shadow gap	26	m			
	Tile Finishes					
	Supply and fix Ceramic tiles to plastered walls. Calibrated modular tiles to EN 12057 Setting out: 600mm high above worktop level. Tiles: Colour: White. Finish: Flat gloss, glazed ceramic with glazed edge. Size: 150 x 150 mm. Thickness: 6mm. Include for Background/ base: Tilebacker board (refer to K10.410). Preparation: Primer to manufacturer's instructions. Bedding: Thin bed adhesive as clause 651. Adhesive: to EN 12004: C2TES1 Mapei Keraflex Maxi S1 or equivalent C2TES1 flexible adhesive. Joint width: 2?3mm subject to tile size. Grout: Mapei Keracolour FF or equivalent flexible grout. Type/ classification: To EN 13888 CG2 WA. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385?3 2007 Section 6.8: around perimeters, wall/floor junctions and up to maximum 8m bay width. Proprietary seal at junction between tile and worktop Accessories: Skirting and Edge Trims, with proprietary square edged satin finish aluminium stop & edge beads. (elsewhere measured) all as per manufactures recommendations and Architect's Drawings and Specification M40/110B					
	To Kitchens					
B	> 300mm wide	31	m2			
C	< 300mm wide	12	m			
	Extra over for;					
D	Neatly cutting and fitting around obstructions		Item			
E	Neatly cutting and fitting around Circular Window 900mm dia.	1	No			
	Accessories					
F	Glazed edge for sills	30	m			
G	Glazed edge for corners	30	m			

	Description	Qty	Unit	Rate	€	c
	Supply and fix Ceramic tiles to plastered walls. Calibrated modular tiles to EN 12057. Setting out: Bath surround - 2.0 meters above floor level over three sides of bath. Tiles: Colour: White. Finish: Flat glazed ceramic - with glazed edge. Size: 150x150 mm. Thickness: 5.5mm. Include for Background/ base: MR plasterboard (refer to K10.403). Bedding: Thin bed adhesive as clause 651. Adhesive: to EN 12004: C2TES1 Mapei Keraflex White or equivalent. Joint width: 2?3mm subject to tile size. Grout: Mapei Keracolour FF or equivalent flexible grout. Type/ classification: To EN 13888 CG2 WA. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385?3 2007 Section 6.8: around perimeters, wall/floor junctions and up to maximum 8m bay width.: Skirting and Edge Trims, with proprietary square edged satin finish aluminium stop & edge beads. (elsewhere measured) all as per manufactures recommendations and Architect's Drawings and Specification M40/110A					
	To Toilets / Bathrooms					
A	> 300mm wide	231	m2			
B	< 300mm wide	35	m			
C	WHB splashback - 600 x 300mm	5	No			
	Extra over for;					
D	Neatly cutting and fitting around obstructions		Item			
	Accessories					
E	Quadrant bead at all exposed edges	70	m			
F	Proprietary seal at junction between bath / shower tray and tiling	28	m			
G	Tiled access hatches 300mm x 300mm as specified in K10.430	36	No			
H	Mapei MAPEGUM WPS or equivalent waterproof tanking system including Mapei MAPEBAND or equivalent compatible tanking tape at internal corners, joints, floor/wall junctions, pipe penetrations etc	231	m2			

	Description	Qty	Unit	Rate	€	c
	Internal Render - Lime plasters Diathonite					
	Re-rendered with a breathable insulating lime render. Ensure existing Masonry is free of all mortar, debris and dust in advance of re-rendering. Masonry to be dampened down prior to application. Cork lime render to be applied to a minimum depth for each coat as detailed in the architectural specification. Minimum curing period of 24 hours between each coat. Coats to be applied using mechanical system. Where undulations occur in the wall, minimum coverage depth is to meet 40mm. Where this results in sections deeper than 50mm a plaster mesh shall be used to improve adherence of coats. The insulating lime render referred to in this specification shall comprise a breathable lime-based binder incorporating cork aggregate, designed for use on historic masonry. The system shall be vapour-permeable, capillary active, and compatible with the existing substrate. The render build-up shall include: -lime-based binder appropriate to the exposure conditions, -cork aggregate for thermal enhancement, -non-corroding reinforcement mesh where required, -total thickness limited to that necessary to achieve performance without compromising historic detailing. The use of metal beads is not permitted. All per Architect's Drawings and Spec M20/240 and Conservation Architect's Specification 3.17					
	Existing External Masonary Wall - 25mm internally - overall to achieve U-Value of 0.44W/m2k					
A	> 300mm wide	1437	m2			
B	< 300mm wide to reveals	322	m			
C	< 300mm wide Arched Window Head	20	m			
D	> 300mm wide (within staircore)	234	m2			
E	< 300mm wide (within staircore)	42	m			
	Sundries					
F	Stainless steel angle beads fixed to Blockwork/Concrete. all as per Architects specification	360	m			

	Description	Qty	Unit	Rate	€	c
	Wall Lining System (Metal Framing) - Where a Service Zone is required					
	Cavity between wall and back of lining: 35mm minimum, 38mm typically. Include for framing at 400mm. centres, Bracket centres (maximum): 800 mm. Linings: 12.5 mm plasterboard, below. Finishing: Skim coat plaster. Primer/ Sealer: As recommended by the board manufacturer for vapour control. Include also for metal trims as recommended by board manufacturer for corner reveals. Complete all per Architect's drawings and Specification					
	Walls					
A	> 300mm	78	m2			
B	< 300mm in reveals	36	m			
	Supply and fit 25mm acoustic mineral wool layer within lining buildup for Internal Walls, all per Architect's drawings and specfication					
C	> 300mm	78	m2			
D	< 300mm in reveals	36	m			
	Full Height Boxout Behind Shower / Encasement System (Metal Framing) to Stack Enclosures					
	Full Height Boxout Behind Baths / Showers; metal stud partition. Cavity between wall and back of lining: as shown on drawings. Framing centres: 400mm. Bracket centres (maximum): 800 mm. Linings: 12.5 mm mositure resistant plasterboard, Finishing: Skim coat plaster. Primer/ Sealer: As recommended by the board manufacturer for vapour control. Include for all necessary Metal trims recommended by board manufacturer for corner reveals, Include also for all necessary mastic seals, provide insulation within duct and duct wrap. Include for all necessary mastic seals, etc complete all per Architects Drawings & Specification.					
E	2300mm high x 100mm deep	12	m			
F	2450mm high x 100mm deep	3	m			
G	2450mm high x 216mm deep	3	m			
H	2450mm high x 500mm deep	2	m			
J	2600mm high x 500mm deep	1	m			
K	2600mm high x 200mm deep	3	m			
L	2700mm high x 100mm deep	8	m			

	Description	Qty	Unit	Rate	€	c
	Extra over for;					
A	End Panel 100mm wide x 1395mm high	1	No			
B	End Panel 500mm wide x 2450mm high	2	No			
C	End Panel 500mm wide x 2600mm high	1	No			
D	Cut-outs for Shower Mixer, pipework etc.		Item			
	Half Height Boxout Behind Sinks & WC					
	Half Height Boxout Behind Sinks & WCs; metal stud partition. Cavity between wall and back of lining: as shown on drawings. Framing centres: 400mm. Bracket centres (maximum): 800 mm. Linings: 12.5 mm moisture resistant plasterboard. Finishing: Skim coat plaster. Primer/ Sealer: As recommended by the board manufacturer for vapour control. Include for all necessary Metal trims recommended by board manufacturer for corner reveals, Include also for all necessary mastic seals, etc complete all per Architects Drawings & Specification					
E	100mm wide x 1055mm high	1	m			
F	150mm wide x 720mm high	5	m			
G	200mm wide x 1055mm high	5	m			
H	250mm wide x 1055mm high	17	m			
	Extra over for;					
J	End Panel 250mm wide x 1055mm high	2	No			
K	Cut-outs for WHB, WC and controls		Item			
	8mm Toughened Glass Top on and including Plywood Backer to to WC Enclosure, all per Architect's Drawings and Specification					
L	260mm wide per drawing 440	2	m			
M	250mm wide per drawing 442 & 443	16	m			
N	200mm wide per drawing 493 & 495	3	m			
P	150mm wide per drawing 494	6	m			
Q	100mm wide per drawing 493	1	m			

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	Dulux D154 or Equivalent. Surfaces: Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent. All as per Architects Specification Clause M60/110A.					
	Plastered Walls					
A	> 300mm wide	1108	m2			
B	< 300mm thick	141	m			
	Ditto Within Lift Shaft					
C	> 300mm wide	108	m2			
D	< 300mm thick	21	m			
	Dulux or Equivalent. Surfaces: Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film). Finishing coats: Two coats Dulux Bathroom Plus. All as per Architects Specification Clause M60/110B.					
	Plastered Walls					
E	> 300mm wide	460	m2			
F	< 300mm thick	167	m			
	Prepare and apply Farrow and Ball or Equivalent Casein Distemper paint - Breathable to existing Plastered plasterboard. include for Preparation to manufacturer's recommendations. Newly lime plastered surfaces should be fully carbonated and cured for 4-5 weeks prior to application. Initial coats: Finishing coats: Two coats Casein Distemper; and all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110C					
	Newly Rendered Face of Existing Walls					
G	> 300mm wide	1301	m2			
H	< 300mm wide	279	m			

	Description	Qty	Unit	Rate	€	c
	Existing Painted Plastered Walls					
A	> 300mm wide	1003	m2			
B	< 300mm wide	250	m			
C	> 300mm wide (within staircore)	382	m2			
D	< 300mm thick (within staircore)	26	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/11/1					
Page No. Conv/11/2					
Page No. Conv/11/3					
Page No. Conv/11/4					
Page No. Conv/11/5					
Page No. Conv/11/6					
Page No. Conv/11/7					
Page No. Conv/11/8					
Page No. Conv/11/9					
Page No. Conv/11/10					
Page No. Conv/11/11					
Page No. Conv/11/12					
Page No. Conv/11/13					
Page No. Conv/11/14					
Page No. Conv/11/15					
Page No. Conv/11/16					
(42) WALL FINISHES INTERNALLY **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
(43) FLOOR FINISHES					
INFORMATION					
This element of the work has been measured from Architects Drawings		Note			
This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
For detailed description of workmanship and materials see specification.		Note			
The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
Notes:					
1. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes					
2. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense					
3. The Contractor is solely responsible for ensuring that the concrete floor slabs are sufficiently dried out before any floor finishes are laid.					
4. The Contractor is to include for any required protection of Acoustic Underlay and Floor Finishes prior to handover					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	Raised Access Floor					
	Raised access floor to third floor extension of convent building. Standard: To BS EN 12825. Preparation: Existing roof finish to be stripped and concrete inspected by Structural Engineer. Floor panels: As clause 315. Accessibility: Partial; submit proposals. Pedestal fixing: Mechanical. Structural performance. Static loading requirements. Structural load class: To IS EN 12825 Class 4. Deflection class: To IS EN 12825 Class B. Fire performance: As clause 234. Installed mass of system (maximum): Refer to Structural Engineers drawings and specifications. Height; Finished raised access floor height above subfloor: Nominal 355mm - note that SSL of existing roof slab is to be confirmed following strip out. Floor void height: 325mm nominal. Floor void air leakage: Limited, as clause 249. Peel resistance of covering: Required, etc complete, all per Architect's Drawings and Specification K41/120					
	Laid on existing concrete roof slab, after removal of rood finish.					
A	To floors > 300mm wide	134	m2			
	Extra Over for;					
B	Neatly Cutting around M&E Services etc.		Item			
C	Prepare existing concrete roof deck after removal of existing roof finish to recieve raised access floor, including appling dust-proofing sealer	134	m2			
	Levelling Compound					
	Cement based, all as per Architects Drawings and Architects Specification.					
	Laid on existing concrete floor base					
D	To floors > 300mm wide	768	m2			
	Moisture control underlay					
	Underlay with built in moisture barrier to act as Damp Proof Membrane all as per Architects Drawings and Architects Specification.					
	Laid on existing concrete floor base					
E	To floors > 300mm wide	342	m2			

	Description	Qty	Unit	Rate	€	c
	Wood Flooring					
	Wood Floating Flooring on clips on new / existing concrete floor slab Preparation: levelling compound unless flatter than 3mm along 3m straightedge. Resilient layer: Junkers Polyfoam or equivalent 4.5mm bonded to slab and providing resistance to impact sound as required by TGD E, Building Regulations. Strips/ Boards. Standard: To IS EN 14342. Evidence of compliance: Submit. Reaction to fire: To IS EN 13501-1 Class Bfl-s1. Wood species: European Oak Quercus Petraea. Appearance class: To IS EN 942 class J2. Finished face width: 185 mm. Finished thickness: 21 mm. Edges: Tongue and grooved with a 1mm eased edge and wax edged sealed. Moisture content at time of fixing: 7.5% + manufacturing tolerance. Method of fixing/ joining: proprietary clips; size of clips to be determined by supplier based on relative humidity advised for the building. Finish: Factory finished with several coats of UV light cured lacquer and one coat of two component polyurethane Isolacquer UltraMatt Lacquer (10% gloss), total film thickness 45 microns. Additional coat on site. Accessories: -Access Hatches, -Floor outlets: refer to M+E specification, -Note screeds must be levelled where required. Include for underlay, etc complete, all per Architect's Drawings and Specification K21/110					
	Laid on existing concrete floor base					
A	To floors > 300mm wide	216	m2			
	Extra Over for;					
B	Neatly Cutting around M&E Services etc.		Item			

	Description	Qty	Unit	Rate	€	c
	Vinyl Sheet Flooring					
	Vinyl sheet flooring generally: Forbo or Equivalent. Product reference: Sphera Energetic to IS EN 14041 & EN ISO 10582. Preparation: As per manufacturer's recommendations. Underlay: Acoustic Underlay to achieve TGD E requirement: Weighted sound reduction in impact sound pressure level of not less than 17dB when measured in accordance with EN ISO 717-2. Properties. Reaction-to-fire classification: To EN 13501-1, BfI-s1. Use area class to BS EN ISO 10874: Class 34 / 33. Slip potential. Slip resistance value (SRV)/ pendulum test value (PTV) (minimum): DIN 51130, R10; EN 13893, DS ?0.30. PTV dry >50. Acoustic performance: Impact resistance to IS EN ISO 10140-3, ?Lw 18 dB. Width: 2000 mm. Thickness: 2mm. Adhesive: Primer: As per manufacturer's recommendations. Seams: As per manufacturer's recommendations. Finishing: As per manufacturer's recommendations. Other requirements: Warranty: Ten year. Verification. Submittals:. Include for underlay, etc complete, all per Architect's Drawings and Specification M50/150A					
	Laid on existing concrete floor base					
A	To floors > 300mm wide	27	m2			
	Extra Over for;					
B	Edging trim for thresholds, as clause 740	3	m			
C	Matching Coved Skirtings, as clause 770	35	m			
D	On Raised Access Floor (as shown on architectural details - 3rd Floor of Convent) - Include for 12mm Cement Board substrate	15	m2			
E	Neatly Cutting around M&E Services etc.		Item			

	Description	Qty	Unit	Rate	€	c
	Linoleum Sheet Flooring					
	Linoleum sheet flooring generally by Forbo Flooring Systems or equivalent. Product reference: Marmoleum Decibel Sheet Flooring. Standard: To BS EN 686. Use class: Class 23, 33; 41. Slip potential. Slip resistance value (SRV) (minimum)/ pendulum test value (PTV) (minimum): DIN 51130= R9., PVT Dry: ?50, EN 13893: ? ?0.30. Recycled content: 46%. Width: 2000 mm. Thickness: 3.5 mm. Residual indentation (to EN-ISO 24343-1): ?0.2 mm. Castor chair continuous use (to ISO 4918/ EN 425): Suitable for office chairs with castors. Light fastness to EN-ISO 105-B02: Method 3: blue scale minimum 6. Acoustical impact sound reduction (to EN-ISO 717-2): ?18 dB. Reaction to fire (to EN 13501-1): Cfl-s1, G, CS. Body voltage (to EN 1815): ? 2 kV. Thermal conductivity (to EN 12524): 0.17 W/m K. Indoor Air Emissions (to EN 16516): TVOC at 28 days: <0.05 mg/m3. Total weight:: 3100 g/m2. Verification: Submittals. Include for underlay, etc complete, all per Architect's Drawings and Specification M50/150B					
	Laid on existing concrete floor base					
A	To floors > 300mm wide	304	m2			
B	To Stair Landings > 300mm wide	96	m2			
C	To Steps < 300mm wide	28	m			
	Extra Over for;					
D	Edging trim for thresholds, as clause 740	120	m			
E	Stair nosings, as clause 750	56	m			
F	On Raised Access Floor (as shown on architectural details - 3rd Floor of Convent) - Include for 12mm Plywood substrate	110	m2			
G	Neatly Cutting around M&E Services etc.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Carpet Tiling					
	Tretford or Equivalent. Product reference: Interlife or Equivalent to IS EN 14041 Carpet tiles to offices and staff accommodation to Existing concrete slab / Raised access floor on third floor. Preparation: As clause 420. Underlay: Bonded. Properties. Reaction-to-fire classification: To BS EN 13501-1, Class Bfl. Type: Carded fibres formed into a continuous corrugation and bonded to a 100% postconsumer recycled PET backing. Composition: Pile composition is 70% undyed goat hair and 30% nylon. Classification to BS EN 1307. Levels of use class: 33. Luxury rating class: LC2. Method of laying: full?spread glued or installed using tack strips. All adhesive should be free of solvents and VOC. , complete, all per Architect's Drawings and Specification M50/130A					
	Laid on existing concrete floor base					
A	To floors > 300mm wide	149	m2			
	Extra Over for;					
B	Brushed stainless steel edge trim as CAT SSE or equivalent	65	m			
C	Acoustic underlay (refer Clause M40/115)	149	m2			
D	Carpet roll to residential areas	45	m2			
E	On Raised Access Floor (as shown on architectural details - 3rd Floor of Convent) - Include for 12mm Plywood substrate	18	m2			
F	Neatly Cutting around M&E Services etc.		Item			

	Description	Qty	Unit	Rate	€	c
	Ceramic Tiling					
	Calibrated modular tiles to EN 12057. Setting out: To Architect's drawings. Tiles: TopCer or equivalent. Product Reference: 15x15 Square RT. Colour: Allow for colours in Series 1, 2, 3 & 4. Finish: RT - textured. Size: 150 x 150 mm. Thickness: 7-7.5mm. Slip potential. Slip resistance value (SRV) (minimum)/ pendulum test value (PTV) (minimum) to BS EN 16165 or BS EN 14231 (natural stone only): 36+ wet. Surface roughness (Rz) (minimum) to BS 1134: R11. Preparation: Primer to manufacturer's instructions. Bedding: as clause 651. Adhesive: to EN 12004: C2TES1 Thin bed flexible adhesive compatible with laying on acoustic underlay - Damstik or equivalent. Joint width: 2?3mm subject to tile size. Grout: Mapei Keracolour FF or equivalent flexible grout. Type/ classification: To EN 13888 CG2 WA. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385?3 2007 Section 6.8: around perimeters, wall/floor junctions and up to maximum 8m bay width, complete, all per Architect's Drawings and Specification M40/110C					
	Laid on existing concrete floor base					
A	To floors > 300mm wide	100	m2			
	Extra Over for;					
B	Edging trim for thresholds	25	m			
C	Acoustic underlay (refer Clause M40/115)	100	m2			
D	Matching Coved Skirting Tile	151	m			
E	On Raised Access Floor (as shown on architectural details - 3rd Floor of Convent) - Include for 12mm Plywood substrate	5	m2			
F	Neatly Cutting around M&E Services etc.		Item			
	Floor Drain					
G	Floor grate drain as per Architects Specification and drawings. Include for breakout of concrete floor and making good after. Include also for neatly finishing Vinyl floor finish to gulley, etc. complete. all per architect's drawings and Specification.	1	nr			
	Separation Strips					
H	Satin stainless steel separation strip	76	m			

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/12/1					
Page No. Conv/12/2					
Page No. Conv/12/3					
Page No. Conv/12/4					
Page No. Conv/12/5					
Page No. Conv/12/6					
Page No. Conv/12/7					
Page No. Conv/12/8					
(43) FLOOR FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(35) & (45) SUSPENDED CEILINGS & FINISHES					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 415-418, 483-487					
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
	Floor Wall & Ceiling Finishing: Suspended Ceilings					
	NOTES:					
E	1. The Tenderers attention is drawn to the fact that the rates for suspended ceilings should include for all perimeter members to columns, wall projections or the like; rates are to include for all fixings to complete the works		Note			
F	2. The Contractor is advised that the following measurement and descriptions are to be read in conjunction with the Architects Drawings and Specifications listed as tender documents within the Preliminaries Section of the Bill of Quantities		Note			
G	3. Work areas not exceeding 4.0 sq.m on plan have not been measured separately and Contractors shall make due allowance in their rates		Note			
H	4. Rates are to include for all labours in connection with the following work including accurately setting out and fitting of suspended ceilings around surface features		Note			
	Rates for suspended ceilings are to include for:					
	a) Notching and cutting around columns or the like or at the edge of the works unless measured separately					
	b) Any items necessary for the satisfactory completion of the works					
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Suspended Ceiling System					
	Suspended ceiling system for use generally with gypsum plasterboards, to IS EN 13964. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking. Lining board: -12.5 mm plasterboard as clause 401 generally . Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Type recommended by lining board manufacturer for vapour control in in bathrooms. Accessories: Beads/ stops as clause 692. Suspension system: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. Grid type: Double with primary channel. Hangers: Type recommended by board manufacturer. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specified on architectural drawings. Access units: Required as clause 431 - As indicated on architectural drawings. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications. System performance to IS EN 13964. Structural: The ceiling system must safely support all anticipated loads including services fittings. Uniformly distributed load (maximum): 0.6 kN/m2. Additional loads/ pressures: luminaires and other M+E fittings-refer to M+E drawings and data sheets to be provided by specialist contractors. Deflection of grid between points of support (maximum): 0.0025 x span. Fire performance. Reaction to fire: Class B - s3-d2. Airborne sound insulation (complete floor and ceiling assembly). Weighted sound reduction index, Rw (minimum), to BS EN ISO 717-1: 50 dB, complete all as per Architects Drawings and Specification Clause K10/215					
	Fixed to Underside of Timber Flat Roof Structure					
A	depth of suspendion 150 - 500mm	142	m2			
B	Ditto to sides of lightwell to AOV over Staircore	14	m2			
	Fixed to Underside of Existing Ribbed Concrete Floor / Roof Slab					
C	depth of suspendion 150 - 500mm	533	m2			
D	Raking to underside of existing concrete stairs	62	m2			

	Description	Qty	Unit	Rate	€	c
	Ditto with 12.5 mm moisture-resistant plasterboard to EN 520, type AH1 as clause K10/403 for use in bathrooms and other wet /humid environments as indicated on architectural drawings.all as per Architects Drawings and Specification Section K10					
	Suspended Ceilings					
A	depth of suspension; 150 - 500mm	187	m2			
	Suspended ceiling system for use generally with gypsum plasterboards, to IS EN 13964. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking. Lining board: -12.5 mm plasterboard as clause 401 generally . Finishing: Skim coat plaster as clause 680. Primer/ Sealer: Primer to painted areas. Type recommended by lining board manufacturer for vapour control in in bathrooms. Accessories: Beads/ stops as clause 692. Suspension system: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. Grid type: Double with primary channel. Hangers: Type recommended by board manufacturer. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specified on architectural drawings. Access units: Required as clause 431 - As indicated on architectural drawings. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications. System performance to IS EN 13964. Structural: The ceiling system must safely support all anticipated loads including services fittings. Uniformly distributed load (maximum): 0.6 kN/m2. Additional loads/ pressures: luminaires and other M+E fittings-refer to M+E drawings and data sheets to be provided by specialist contractors. Deflection of grid between points of support (maximum): 0.0025 x span. Fire performance. Reaction to fire: Class B - s3-d2. Airborne sound insulation (complete floor and ceiling assembly). Weighted sound reduction index, Rw (minimum), to BS EN ISO 717-1: 50 dB, complete all as per Architects Drawings and Specification Clause K10/220					
	Fixed to Underside of Timber Flat Roof Structure					
B	depth of suspendion 150 - 500mm	55	m2			
	Fixed to Underside of Existing Ribbed Concrete Floor / Roof Slab					
C	depth of suspendion 150 - 500mm	40	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Insulation (Air tightness)					
	Vapour Control Layer Air Tight & Humidity-Variable Pipe Gasket, Material: Polypropylene copolymer backing fleece, PP copolymer special membrane, sealing ring: EPDM; Adhesive: waterproof solid adhesive; all as per Architects specfication and drawing in:					
A	Grommet size 200 mm	30	no			
B	Ditto - 250 mm	25	no			
C	Ditto - 300 mm	15	no			
D	Ditto - 350 mm	12	no			
	Fire Barriers					
	'Letterbox' detail above doors					
	2 x 50mm thick mineral wool ablative coated batts to Specification Clause P12/360A, with acoustic intumescent seals to perimiter (both sides) to Specification Clause P12/390A; all to achieve 2 hour fire resistance, acoustic performance up to 48dB, Air leakage of 0.8 m3/h/m2; inclusive of all associated fixings; all as per Architects drawings and Specification section P12					
E	circa 450mm wide x 250mm high per Architects Drawings & Specification	15	no			
	Bulkheads / Boxouts					
	Bulkheads / boxouts; Foil backed plasterboard, include for all necessary carbon steel support framework, treated softwood support framework / battens, all joints scrimmed and finished with 3mm skim coat of finishing plaster. Also include for all necessary insulation, stainless steel angle beads, sealing etc. complete, all as per Architects Drawings and Specification					
F	Bulkhead; 25mm thick plasterboard Horizontal; as per Architects Drawing 447; circa 350mm wide x 300mm high	7	m			
G	Bulkhead; 25mm thick plasterboard Horizontal; as per Architects Drawing 498 & 499; circa 360mm wide x 500mm high	18	m			
H	Bulkhead; 25mm thick plasterboard Horizontal; as per Architects Drawing 449; circa 360mm wide x 800mm high	3	m			

	Description	Qty	Unit	Rate	€	c
	Access Hatches					
	1. Manufacturer: Submit proposals 2. Type: Concealed circular frame with beaded frame 2.1. Sizes: See ceiling plans - max diameter 600mm 3. Frame: Galvanised steel, polyster powder coated 4. Panel: Galvanised steel, polyster powder coated., colour TBC 5. Lock: Unitwist door hanging mechanism with restraining safety chain. Inclusive of all associated softwood timber support framework. All as per Architects Specification					
A	Circa 575mm diameter	60	No			
	1. Manufacturer: Submit proposals 2. Type: As recommended by lining manufacturer in clause 220 to complete the ceiling system and achieve specified performance 2.1. Sizes: See ceiling plans 3. Frame: Galvanised steel 4. Panel: galvanised steel for tiling with concealed pivot 5. Lock: budget lock					
B	400 x 400mm	16	No			
	Painting and Decorating					
	Prepare and apply; Dulux D154 or Equivalent. Surfaces: plasterboard. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalentand all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110A					
	Plastered Ceilings					
C	> 300mm wide	770	m2			
D	Ditto to sides of lightwell to AOV over Staircore	14	m2			
E	Ditto to Raking soffit of concrete stairs	62	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Prepare and apply emulsion paint Dulux or Equivalent to plasterboard. Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film). Finishing coats: Two coats Dulux Bathroom Plus, and all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110B					
	Plastered Ceilings					
A	> 300mm wide	187	m2			
B	< 300mm wide	7	m			
	Prepare and apply Farrow and Ball or Equivalent Casein Distemper paint - Breathable to existing Plastered plasterboard. include for Preparation to manufacturer's recommendations. Newly lime plastered surfaces should be fully carbonated and cured for 4-5 weeks prior to application. Initial coats: Finishing coats: Two coats Casein Distemper; and all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110C					
	Existing Plastered Ceilings & Cornicing					
C	> 300mm wide	50	m2			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/13/1					
Page No. Conv/13/2					
Page No. Conv/13/3					
Page No. Conv/13/4					
Page No. Conv/13/5					
Page No. Conv/13/6					
(35) & (45) SUSPENDED CEILINGS & FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(47) ROOF FINISHES					
	INFORMATION					
A	This element of the work has been measured from Architects Drawing Nos		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	For detailed description to workmanship and materials see specification		Note			
D	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
E	Roof finishes shall be carried out by specialist firms. The manufacturer's of the roofing systems are to provide to the Client a written guarantee on their materials and workmanship incorporated in the works per the Architects Specification		Note			
F	Contractor's to include for all necessary air seals, mastic etc within their rates.		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Ground Floor Extension					
	Built-up reinforced bitumen membrane warm deck roof covering					
	Waterproof covering; Underlayer: Bauder G4E, OR equivalent, 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced. Fire Classification: Roof buildup is required to achieve BroofT4 - provide test certificates to match specific buildup. Include for all necessary Surface protection. Include also for all necessary accessories: Angle fillets, as clause 335, Perimeter trims, as clause 345, Pipe collars, as clause 480. Etc. Include for Warm deck roof insulation PIR. Type: Polyisocyanurate (PIR). Unilin Thin-R FR/BGM or Equivalent. Reaction to fire: Overall roof build up to achieve BROOF(t4), in accordance with BS EN 13501-5. Thermal conductivity (minimum): 0.024 W/(m-K). Overall U-Value of Roof buildup: 0.16W/m2K. Thickness: 140mm. Compressive strength (minimum): 150kPa. Other characteristics: As insulation manufacturer's recommendations for the traffic loading. Edges: Tongued-and-grooved. Facing. Working surface: polypropylene fleece finished bitumen/glass fibre. Underside: mineral glass facing Allow for to achieve falls as per architectural drawings. All in accordance with Architects Drawings and Specification Section J41/110 & 430					
	Laid to falls and cross falls on Plywood deck (elsewhere measured)					
A	> 300mm wide	93	m2			
B	Vertical upstands to parapet 30 mm thick, highly efficient rigid urethane insulation or equivalent. In compliance with Part L of the current Building Regulations, the insulation to wall abutments should be 300 mm in height from the deck surface to the top of the upstand, with the vertical insulation being installed before the flat, so as to retain the insulation at the base. Include for support brackets etc. complete, all as per Architect;s Drawing 331	14	m			
C	Ditto to Face of existing Masonary Wall	23	m			
D	Form Gutter 325mm wide	14	m			
E	Form watertight Rainwater outlets through parapet	2	no.			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Air and Vapour control layer to Architect's spec. J41/395					
A	> 300mm wide	93	m2			
B	Ditto wrapped over parapet structure	7	m2			
C	Connection to face of existing face of masonary wall, include for all necessary seals, tape etc.	23	m			
	Lead					
	Lead Cover Flashing thickness:. End to end joints: Laps of not less than 100 mm. Cover: Overlap to upstand of not less than 75 mm. fixing into external face of existing masonary walls, include for all necessary sealant, saw cutting etc complete, All per Architect's Detail 02 331 and Specification					
D	150 - 300mm girth; horizontal	23	m			
	Pressed Metal					
	Coping units Aluminium.to BS EN 515, BS EN 573-3, BS EN 485-1 and BS EN 485-2.. Finish: Annodized to match finish of approved window systems. Material thickness (minimum): 3 mm. Fixings: SS self drilling screws, rivets for support frame. Clip system with no visible fixings to be used on coping. Brackets: "Clip-fix" folded aluminium brackets. Jointing: Expanding seal tape. Accessories: Factory fabricated stop-ends. Internal and external corners. Pnclude for Substrate: Calcium Silicate Fibre Reinforced Board, Manufacturer: Promat or equivalent, Product reference: Supalux/ Promatect-250 or equivalent. Thickness: 18mm. Material: Calcium silicate - exterior grade, inert and suitable for use in external walls/roofs Include for DPC, and Plywood grounds, cavity barrier, Fischer Concrete Screws Stainless Steel FBS 11 8X80 @ 500c/c, etc complete all as per Architect's Drawings 331 and Specification F30/780					
E	600 - 750mm girth; horizontal, 7 times cranked.	14	m			
F	Corners to ditto	2	no.			
G	Ends to ditto	2	no.			
	Drainage					
	Flush Joint 110mm diameter Cast Iron downpipe to match existing including all required fittings, bends, branches and accessories; fixed to hardwood tiber clad walls; all as per Architects drawings and Specification					
H	Downpipe 110mm Diameter	6	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extra; shoes	2	nr			
B	Extra; Hopper	2	nr			
	Roof Level Extension					
	Built-up reinforced bitumen membrane warm deck roof covering					
	Waterproof covering; Underlayer: Bauder G4E, OR equivalent, 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced. Fire Classification: Roof buildup is required to achieve BroofT4 - provide test certificates to match specific buildup. Include for all necessary Surface protection. Include also for all necessary accessories: Angle fillets, as clause 335, Perimeter trims, as clause 345, Pipe collars, as clause 480. Etc. Include for Warm deck roof insulation PIR. Type: Polyisocyanurate (PIR). Unilin Thin-R FR/BGM or Equivalent. Reaction to fire: Overall roof build up to achieve BROOF(t4), in accordance with BS EN 13501-5. Thermal conductivity (minimum): 0.024 W/(m-K). Overall U-Value of Roof buildup: 0.16W/m2K. Thickness: 140mm. Compressive strength (minimum): 150kPa. Other characteristics: As insulation manufacturer's recommendations for the traffic loading. Edges: Tongued-and-grooved. Facing. Working surface: polypropylene fleece finished bitumen/glass fibre. Underside: mineral glass facing Allow for to achieve falls as per architectural drawings. All in accordance with Architects Drawings and Specification Section J41/110 & 430					
	Laid to falls and cross falls on Plywood deck (elsewhere measured)					
C	> 300mm wide	148	m2			
D	> 300mm wide Vertical to Face of Upstands to AOVs / Lift Shaft Wall	23	m2			
E	Vertical upstands to parapet 30 mm thick, highly efficient rigid urethane insulation or equivalent. In compliance with Part L of the current Building Regulations, the insulation to wall abutments should be 300 mm in height from the deck surface to the top of the upstand, with the vertical insulation being installed before the flat, so as to retain the insulation at the base. Include for support brackets etc. complete, all as per Architect;s Drawing 332	58	m			

	Description	Qty	Unit	Rate	€	c
A	Ditto to face of Blockwork Upstand to lift shaft	7	m			
B	Form Gutter 350mm wide	44	m			
C	Form watertight Rainwater outlets through parapet. Include for all necessary flashings , flange, grounds, expanding foam, sealing, bends with roding eye, etc complete all per Architect's Drawings	2	no.			
D	Extra Over for tapered insulation to concrete roof deck of lift shaft	5	m2			
	Air and Vapour control layer to Architect's spec. J41/395					
E	> 300mm wide	148	m2			
F	> 300mm wide Vertical to Face of Upstands to AOVs / Lift Shaft Wall	23	m2			
G	Ditto wrapped over parapet structure	32	m2			
	Pressed Metal					
	Coping units Aluminium.to BS EN 515, BS EN 573-3, BS EN 485-1 and BS EN 485-2.. Finish: Annodized to match finish of approved window systems. Material thickness (minimum): 3 mm. Fixings: SS self drilling screws, rivets for support frame. Clip system with no visible fixings to be used on coping. Brackets: "Clip-fix" folded aluminium brackets. Jointing: Expanding seal tape. Accessories: Factory fabricated stop-ends. Internal and external corners. Include for Substrate: Calcium Silicate Fibre Reinforced Board, Manufacturer: Promat or equivalent, Product reference: Supalux/ Promatect-250 or equivalent. Thickness: 18mm. Material: Calcium silicate - exterior grade, inert and suitable for use in external walls/roofs Include for DPC, and Plywood grounds, cavity barrier, Fischer Concrete Screws Stainless Steel FBS 11 8X80 @ 500c/c, etc complete all as per Architect's Drawings 332 and Specification F30/780					
H	750mm - 900mm girth; horizontal, 7 times cranked.	58	m			
J	600mm - 750mm girth; horizontal, 7 times cranked to Blockwork Parapet	7	m			
K	Corners to ditto	5	no.			
L	Ends to ditto	4	no.			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Drainage					
	PVC-U pipework internal pipework and fittings, to ISEN 1329-1 or BS 4514, Kitemark-certified. Nominal size: DN110. Brackets: PVC-U clips, black. Fixings: Stainless steel screws. including all required fittings, bends, branches and accessories; brought down within building; all as per Architects drawings and Specification					
A	Downpipe 110mm Diameter	42	m			
B	Extra; bends	12	no			
	Extra Over for;					
C	Coring existing reinforced concrete floor and roof slab for passage of new 110mm dia down pipes. Include for fire stoping / collars to R10/470 after to achieve 60min FR. < 150mm dia.	9	no.			
D	Wrapping Downpipe in Soundproof insulation, Mineral wool, Thermal conductivity (maximum): 0.045W/mK, Thickness: 50mm nominal. Fire performance: Reaction to fire: To IS EN 13501-1, Class A1 or better, all to satisfaction of Architect and Specification R10/450	42	m			
	Form or cut holes in roof buildup for pipes through plywood roof deck; fire proofing, include for building in galvanized steel pipe sleeve; make good on completion inclusive of flashing etc. complete and leave in perfectly watertight condition; as per architect's drawings and spec.; nominal size					
	Pipes					
E	100 - 150mm	7	no			
F	200 - 250mm	4	no			
G	Flat roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in flat roof inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	4	no			

	Description	Qty	Unit	Rate	€	c
	Existing Convent Roof					
	IN - SITU CONCRETE					
	Non structural concrete screed laid on existing concrete roof deck after removal of existing roof finish. Include for praparing existing deck to recieve new screed; grade C32/40; laid to falls and crossfalls; as per the Engineers Drawings and Specification and Architect's Specification M10/670					
A	floating screed; average depth 100mm thick with a minimum depth of 75mm and maximum of 150mm as per Architects Drawings	10	m3			
B	Ditto Within Bell Tower	1	m3			
	Reinforcement					
	Bar reinforcement; all in compliance with Engineers Concrete Specification Section E30; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers drawings and Specification					
	Fabric Reinforcement					
C	Ref. A 142; horizontal; laps per Engineers specification	97	m2			
D	Ditto Within Bell Tower	3	m2			
	Sundries					
	Surface Finishes					
E	Powerfloat concrete finish to falls and crossfalls (non structural screed)	97	m2			
F	Ditto Within Bell Tower	3	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Built-up reinforced bitumen membrane warm deck roof covering					
	Waterproof covering; Underlayer: Bauder G4E, OR equivalent, 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced. Fire Classification: Roof buildup is required to achieve BroofT4 - provide test certificates to match specific buildup. Include for all necessary Surface protection. Include also for all necessary accessories: Angle fillets, as clause 335, Perimeter trims, as clause 345, Pipe collars, as clause 480. Etc. Include for Warm deck roof insulation PIR. Type: Polyisocyanurate (PIR). Unilin Thin-R FR/BGM or Equivalent. Reaction to fire: Overall roof build up to achieve BROOF(t4), in accordance with BS EN 13501-5. Thermal conductivity (minimum): 0.024 W/(m-K). Overall U-Value of Roof buildup: 0.16W/m2K. Thickness: 140mm. Compressive strength (minimum): 150kPa. Other characteristics: As insulation manufacturer's recommendations for the traffic loading. Edges: Tongued-and-grooved. Facing. Working surface: polypropylene fleece finished bitumen/glass fibre. Underside: mineral glass facing Allow for to achieve falls as per architectural drawings. All in accordance with Architects Drawings and Specification Section J41/110 & 430					
	Laid to falls and cross falls on Concrete deck (elsewhere measured)					
A	> 300mm wide	97	m2			
B	Ditto Within Bell Tower	3	m2			
C	Vertical upstands to parapet 30 mm thick, highly efficient rigid urethane insulation or equivalent. In compliance with Part L of the current Building Regulations, the insulation to wall abutments should be 300 mm in height from the deck surface to the top of the upstand, with the vertical insulation being installed before the flat, so as to retain the insulation at the base. Include for support brackets etc. complete, all as per Architect;s Drawing 334	58	m			
D	Form Gutter 350mm wide	22	m			
E	Form watertight Rainwater outlets through existing masonary parapet. Include for all necessary coring of masonary wall, etc complete all per Architect's Drawing	3	no.			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Proprietary rainwater outlets Flat roof overflow. Bitumen Parapet Tell Tale Overflow. Manufacturer: Bauder OR Equivalent. Product reference: Compatible with roof membrane as specified in Section J41. Roof construction: Warm roof above concrete deck1. Roof insulation thickness: Refer to architectural drawings. Installation: Co-ordination for connected pipework required prior to casting of slabs. Note that fire integrity of slab is to be maintained and appropriate firestopping is to be installedwhere required.. Spigot:. Width: 50mm diameter. Length: 650mm nominal - to acheice 150mm clearance from outer face of existing rendered masonary wall. Flange: Material: Compatible with roof membrane as specified in Section J41. Size: minimum 330 x 330mm. Outlet: Type and direction to suit pipework with suitable adaptors and connections. All per Architect's Specification R10/365E	3	no.			
	Air and Vapour control layer to Architect's spec. J41/395					
B	> 300mm wide	100	m2			
	Intensive Green Roofs					
	Intensive green roof to flat roof. Bauder or Equivalent, Standard/ Code of Practice: GRO Code of Practice for Green Roofs. Roof type: Warm. Inlude for Substrate: As Clause J41/110. Slope: 1:60 on Bitumen sheet covering (elsewhere measured). Include for Protection Layer: Bauder FSM600 or Equivalent - 4mm protection fleece. Installation as clause 750C. Seperation Layer: BauderGREEN PE 02 separation layer or Equivalent. Slip Layer: BauderGREEN PE 02 slip layer or Equivalent. Moisture control layers: Drainage layer: BauderGREEN DSE 60 drainage board or Equivalent. Filter membrane: BauderGREEN FV 125 filter fleece. Growing medium: BauderGREEN SUB-IM UK intensive substrate. Nutrient levels within the soil shall from representative samples as per FLL Guidelines and BS 3882:2015 to be as follows and tailored for use on roof gardens featuring wildflower blankets. Depth: minimum as per manufacturer's guidelines. Vegetation: Pre-cultivated Irish Native species wildflower blanket. Complete all per Architect's drawings and Specification Q37/110					
C	> 300mm	42	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Extra Over for					
A	Irrigation: BauderGREEN SUB-MD UK mineral drain aggregate. Accessories: As required to complete the system to manufacturers guildines including but limited to the following: -Chamber height adapter, -inspection chamber, -retention angles, -Project specific drip line irrigation system		Item			
B	Barrier at boundary with Paved Terrace	22	m			
	Terrace					
	Supply and fit Concrete Paving tiles to BS 7533-4:2006 Suitable for use on support pedestals as per clasue 467. Colour/ finish: natural grey finish. Size: 400x400mm, Thickness:: 60mm. Width of joints: 5mm. Include for Support system for precast concrete paving slabs. Incremental height adjustable steel pedestal, non-combustible. Standard:: BS 8579. Height adjustable range: 50-150mm. Pedestal diameter: : 205mm. Ultimate compressive strength:: 25kN. Fire perfomance:: Euroclass A1. Accessories: Slope corrector at base for gradients up to 1in80. Rubber acoustic shims. All per Architect's Drawings and SpecificationJ41/467 & 470					
C	> 300mm wide	47	m2			
D	Ditto Within Bell Tower	3	m3			
	Pebble Boundary					
	Supply and fit Pebble Stone boundary detail. Rounded river washed pebbles. Size: 5-30mm. Depth:: minimum 50mm. Colour: white/silver grey. All per Architect's Drawing 334 and SpecificationJ41/460					
E	> 500mm wide x 70mm deep	26	m			
F	Barrier at boundary with Green Roof	26	m			
	Drainage					
	PVC-U pipework internal pipework and fittings, to ISEN 1329-1 or BS 4514, Kitemark-certified. Nominal size: DN110. Brackets: PVC-U clips, black. Fixings: Stainless steel screws. including all required fittings, bends, branches and accessories; brought down within building; all as per Architects drawings and Specification					
G	Downpipe 150mm Diameter (Vertical)	33	m			
H	Ditto fixed to underside of existing reinforced concrete ribbed roof slab (Horizontal)	22	m			

	Description	Qty	Unit	Rate	€	c
A	Extra; bends	12	no			
	Extra Over for;					
B	Coring existing reinforced concrete floor and roof slab for passage of new 150mm dia down pipes. Include for fire stoping / collars to R10/470, after to achieve 60min FR.	12	no.			
C	Ditto for new SVP Pipes < 150mm dia	18	no.			
D	Coring existing rendered masonary internal walls for passage of new 150mm dia down pipes. Include for fire stoping / collars to R10/470, after to achieve 60min FR.	6	no.			
E	Wrapping Downpipe in Soundproof insulation, Mineral wool, Thermal conductivity (maximum): 0.045W/mK, Thickness: 50mm nominal. Fire performance: Reaction to fire: To IS EN 13501-1, Class A1 or better, all to satisfaction of Architect and Specification R10/450	55	m			
	Form or cut holes in roof buildup for pipes through existing reinforced concrete roof deck; fire proofing, fire collars, include for building in galvanized steel pipe sleeve; make good on completion inclusive of flashing etc. complete and leave in perfectly watertight condition; as per architect's drawings and spec.; nominal size					
	Pipes					
F	100 - 150mm	6	no			
G	200 - 250mm	3	no			
H	Flat roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in flat roof inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	3	no			
	Builders Work					
	The Contractor is to allow for all Builders Work Requirements in respect of the rainwater downpipes inclusive of all cutting, forming holes and the like; all as per Architect's Drawings and Specification.					
J	builders work		Item			
	Electronic Roof Integrity Test to all Roof Areas					
K	Electronic roof integrity test; all as per Architect's Drawings and Specification Section J41/920		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/14/1					
Page No. Conv/14/2					
Page No. Conv/14/3					
Page No. Conv/14/4					
Page No. Conv/14/5					
Page No. Conv/14/6					
Page No. Conv/14/7					
Page No. Conv/14/8					
Page No. Conv/14/9					
Page No. Conv/14/10					
Page No. Conv/14/11					
Page No. Conv/14/12					
(47) ROOF FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (59) MECHANICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Mechanical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Mechanical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATION					
	Deviation from ARM 4					
A	The Mechanical Installation has been measured in accordance with the Agreed Rules of Measurement ARM 4 - Agreed Alternative Rules for the Measurement of Services Installations. The Mechanical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.		Item			
	DRAINAGE INSTALLATION					
	Distribution system					
	Pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
B	Waste pipework; polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; sizes as per drawings		Item			
C	32mm diameter		Item			
D	40mm diameter		Item			
E	110mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
A	WC; 110mm waste to builders floor socket	20	nr			
B	WHB; 32mm trapped waste to builders floor socket	19	nr			
C	Sink; baths, showers, appliances; 40mm trapped waste to builders floor socket	58	nr			
	Insulation					
	Insulation to pipework and accessories; 25mm thick Class O insulation, heavy duty no noise insulation to SVPs; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
D	32mm diameter		Item			
E	40mm diameter		Item			
F	110mm diameter		Item			
	General					
	General; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
G	drainage installation		Item			
	Operating and maintenance manuals for					
H	drainage installation		Item			
	Working drawings for					
J	drainage installation		Item			
	Co-ordination drawings for					
K	drainage installation		Item			
	As built drawings for					
L	drainage installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Identification plates, labels and the like for					
A	drainage installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
B	drainage installation		Item			
	Fire stopping and other associated fire protection work for					
C	drainage installation		Item			
	SOIL VENT STACK INSTALLATION					
	Distribution system					
	Internal Soil Vent Stack (Pipework above Ground); polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; all as per Services Engineers Electrical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
D	110mm diameter pipework (grey or black to architects specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	149	m			
E	Extra over ditto, wrapping Soil Vent Pipe in acoustic insulation, all to the satisfaction of the Architect.	149	m			
F	110mm daimeter offset bends to last (grey or black to architects specification)	22	nr			
G	Roof cowls to suite 110mm vent pipes	11	nr			
H	Allow for airtight connect to between 110mm dia. vent pipe end to Vent & Cowl (elsewhere measured). Include for all necessary seals etc complete.	11	nr			
J	110mm 92.5 deg bend double socket (grey or black to architects specification)	22	nr			
K	110mm 92.5 deg branch double socket (grey or black to architects specification)	22	nr			
L	40mm push-fit boss adaptors. (grey or black to architects specification)	60	nr			

	Description	Qty	Unit	Rate	€	c
A	40mm diameter pipework (grey or black to architects later specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	135	m			
B	40mm 92.5 deg bend double socket with solvent joints (grey or black to architects specification)	50	nr			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
C	soil vent stack installation		Item			
	Operating and maintenance manuals for					
D	soil vent stack installation		Item			
	Working drawings for					
E	soil vent stack installation		Item			
	Co-ordination drawings for					
F	soil vent stack installation		Item			
	As built drawings for					
G	soil vent stack installation		Item			
	Identification plates, labels and the like for					
H	soil vent stack installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
J	soil vent stack installation		Item			
	Fire stopping and other associated fire protection work for					
K	soil vent stack installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	DOMESTIC WATER SERVICES INSTALLATION					
	Primary Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
A	Hot Water Buffer Vessel; Ref V1; PF 1,500 Litres; suitable for heat pump systems; Location: Plant Room	1	nr			
B	Hot Water Storage Vessel; Ref V2; stainless steel; capacity 1,500 Litres; complete with 6kW Immersion heater; Location: Plant Room	1	nr			
C	Expansion Vessel; Ref V3; LTHW steel; capacity 150 Litres; Location: Plant Room	1	nr			
D	Expansion Vessel; Ref V4; LTHW steel; capacity 150 Litres; Location: Plant Room	1	nr			
E	Boiler; Ref GB01; wall hung gas fired condensing back up boiler; De-Detrich AMC or equalled and approved; 115kW; Location: Plant Room	1	nr			
F	Air to Water Heat Pumps; Ref HP01; Domino HP-N 018 or equalled and approved air to water heat pump; complete with Axial fans , inverter scroll compressors; R290; 63kW output; overall size 2080mm long x 1100mm deep x 2328mm high Location: Roof Level	1	nr			
G	Air to Water Heat Pumps; Ref HP02; Domino HP-N 018 or equalled and approved air to water heat pump; complete with Axial fans , inverter scroll compressors; R290; 63kW output; overall size 2080mm long x 1100mm deep x 2328mm high Location: Roof Level	1	nr			
H	Air to Water Heat Pumps; Ref HP03; Domino HP-N 018 or equalled and approved air to water heat pump; complete with Axial fans , inverter scroll compressors; R290; 63kW output; overall size 2080mm long x 1100mm deep x 2328mm high Location: Roof Level	1	nr			
J	Plate Heat Exchanger; Ref HP 1; Alfa Laval or equalled and approved Plate Heat Exchanger; rated 300kW; Location: Plant Room	1	nr			
K	Packaged Pressurization Set ; Ref PU 1; complete with break tank, single phase pump unit; Location: Plant Room	1	nr			
L	Packaged Pressurization Set ; Ref PU 2; complete with break tank, single phase pump unit; Location: Plant Room	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Variable Speed Pump ; Ref P 01; stainless steel; Circuit 1; 1PH; Flow 1.3l/s; head 13.3m, pump housing; Location: Plant Room	1	nr			
B	Variable Speed Pump ; Ref P 02; stainless steel; Circuit 1; 1PH; Flow 1.3l/s; head 13.3m, pump housing; Location: Plant Room	1	nr			
C	Variable Speed Pump ; Ref P 03; stainless steel; Circuit 2; 1PH; Flow 1.56l/s; head 12.8m, pump housing; Location: Plant Room	1	nr			
D	Variable Speed Pump ; Ref P 04; stainless steel; Circuit 2; 1PH; Flow 1.56l/s; head 12.8m, pump housing; Location: Plant Room	1	nr			
E	Variable Speed Pump ; Ref P 05; stainless steel; Primary; 1PH; Flow 1.95l/s; head 6.0m, pump housing; Location: Plant Room	1	nr			
F	Variable Speed Pump ; Ref P 06; stainless steel; Primary; 1PH; Flow 1.95l/s; head 6.0m, pump housing; Location: Plant Room	1	nr			
G	Variable Speed Pump ; Ref P 07; stainless steel; Secondary Return; 1PH; Flow 2.2l/s; head 12.8m, pump housing; Location: Plant Room	1	nr			
H	Variable Speed Pump ; Ref P 08; stainless steel; Secondary Return; 1PH; Flow 2.2l/s; head 12.8m, pump housing; Location: Plant Room	1	nr			
J	Cold Water Booster Set Variable Speed Pump ; Ref P 09; stainless steel; Secondary Return; 1PH; Flow 2.8l/s; head 20.0m, pump housing; Location: Plant Room	1	nr			
K	Cold Water Booster Set Variable Speed Pump ; Ref P 10; stainless steel; Secondary Return; 1PH; Flow 2.8l/s; head 20.0m, pump housing; Location: Plant Room	1	nr			
L	Variable Speed Shunt Pump ; Ref P 11; stainless steel; Secondary Return; 1PH; Flow 2.38l/s; head 7.4m, pump housing; Location: Plant Room	1	nr			
M	Variable Speed Shunt Pump ; Ref P 12; stainless steel; Secondary Return; 1PH; Flow 2.38l/s; head 7.4m, pump housing; Location: Plant Room	1	nr			
N	Variable Speed Pump ; Ref P 13; stainless steel; Secondary Return; 1PH; Flow 3.28l/s; head 6.2m, pump housing; Location: Plant Room	1	nr			
P	Break Tank; 1,000 litre break tank to Format 30; fully insulated; overall tank size 1150mm x 1150mm x 1000mm	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with primary equipment					
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
A	Thermostatic Mixing Valve; WHB	12	nr			
B	Thermostatic Mixing Valve; sink	1	nr			
C	Thermostatic Mixing Valve;shower	3	nr			
D	Thermostatic Mixing Valve (TMV3); Horne or equalled and approved Thermostatic Mixing Valve H15-11B; complete with check valves, flow regulator, full bore strainers, swivel inlet connectors	23	nr			
E	Balancing Valve; Oventrop or equalled and approved Balancing Valve Aquastrom Plus	14	nr			
F	ballofix valve; WHB	48	nr			
G	ballofix valve; sink	3	nr			
H	ballofix valve; shower	6	nr			
J	ballofix valve; WC	14	nr			
K	blending valve; WHB	12	nr			
L	blending valve; sink	1	nr			
M	blending valve; bath	6	nr			
N	comissioning set (fixed orifice double regulating valve)	1	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
P	MWS - Mains Water system pipework; 15mm diameter		Item			
Q	MWS - Mains Water system pipework; 22mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	MWS - Mains Water system pipework; 25mm diameter		Item			
B	MWS - Mains Water system pipework; 28mm diameter		Item			
C	MWS - Mains Water system pipework; 32mm diameter		Item			
D	MWS - Mains Water system pipework; 35mm diameter		Item			
E	MWS - Mains Water system pipework; 40mm diameter		Item			
F	MWS - Mains Water system pipework; 50mm diameter		Item			
G	MWS - Mains Water system pipework; 32mm diameter (S&T)		Item			
H	MWS - Mains Water system pipework; 40mm diameter (S&T)		Item			
J	MWS - Mains Water system pipework; 50mm diameter (S&T)		Item			
K	BCWS - Boosted Cold Water system pipework; 15mm diameter		Item			
L	BCWS - Boosted Cold Water system pipework; 22mm diameter		Item			
M	BCWS - Boosted Cold Water system pipework; 28mm diameter		Item			
N	BCWS - Boosted Cold Water system pipework; 35mm diameter		Item			
P	BCWS - Boosted Cold Water system pipework; 42mm diameter		Item			
Q	BCWS - Boosted Cold Water system pipework; 54mm diameter		Item			
R	BCWS - Boosted Cold Water system pipework; 67mm diameter		Item			
S	CWS - Cold Water system pipework; 15mm diameter		Item			
T	CWS - Cold Water system pipework; 22mm diameter		Item			
U	HWS - Hot Water Supply system pipework; 15mm diameter		Item			
V	HWS - Hot Water Supply system pipework; 22mm diameter		Item			
W	HWS - Hot Water Supply system pipework; 28mm diameter		Item			
X	HWS - Hot Water Supply system pipework; 35mm diameter		Item			
Y	HWS - Hot Water Supply system pipework; 42mm diameter		Item			
Z	HWS - Hot Water Supply system pipework; 54mm diameter		Item			
AA	HWS - Hot Water Supply system pipework; 67mm diameter		Item			
BB	HWR - Hot Water Return system pipework; 15mm diameter		Item			
CC	HWR - Hot Water Return system pipework; 22mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	HWR - Hot Water Return system pipework; 28mm diameter		Item			
B	HWR - Hot Water Return system pipework; 35mm diameter		Item			
C	HWR - Hot Water Return system pipework; 42mm diameter		Item			
D	HWR - Hot Water Return system pipework; 54mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
E	MWS - Mains Water system pipework; 15mm diameter		Item			
F	MWS - Mains Water system pipework; 22mm diameter		Item			
G	MWS - Mains Water system pipework; 25mm diameter		Item			
H	MWS - Mains Water system pipework; 28mm diameter		Item			
J	MWS - Mains Water system pipework; 32mm diameter		Item			
K	MWS - Mains Water system pipework; 35mm diameter		Item			
L	MWS - Mains Water system pipework; 40mm diameter		Item			
M	MWS - Mains Water system pipework; 50mm diameter		Item			
N	MWS - Mains Water system pipework; 32mm diameter (S&T)		Item			
P	MWS - Mains Water system pipework; 40mm diameter (S&T)		Item			
Q	MWS - Mains Water system pipework; 50mm diameter (S&T)		Item			
R	BCWS - Boosted Cold Water system pipework; 15mm diameter		Item			
S	BCWS - Boosted Cold Water system pipework; 22mm diameter		Item			
T	BCWS - Boosted Cold Water system pipework; 28mm diameter		Item			
U	BCWS - Boosted Cold Water system pipework; 35mm diameter		Item			
V	BCWS - Boosted Cold Water system pipework; 42mm diameter		Item			
W	BCWS - Boosted Cold Water system pipework; 54mm diameter		Item			
X	BCWS - Boosted Cold Water system pipework; 67mm diameter		Item			
Y	CWS - Cold Water system pipework; 15mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	CWS - Cold Water system pipework; 22mm diameter		Item			
B	HWS - Hot Water Supply system pipework; 15mm diameter		Item			
C	HWS - Hot Water Supply system pipework; 22mm diameter		Item			
D	HWS - Hot Water Supply system pipework; 28mm diameter		Item			
E	HWS - Hot Water Supply system pipework; 35mm diameter		Item			
F	HWS - Hot Water Supply system pipework; 42mm diameter		Item			
G	HWS - Hot Water Supply system pipework; 54mm diameter		Item			
H	HWS - Hot Water Supply system pipework; 67mm diameter		Item			
J	HWR - Hot Water Return system pipework; 15mm diameter		Item			
K	HWR - Hot Water Return system pipework; 22mm diameter		Item			
L	HWR - Hot Water Return system pipework; 28mm diameter		Item			
M	HWR - Hot Water Return system pipework; 35mm diameter		Item			
N	HWR - Hot Water Return system pipework; 42mm diameter		Item			
P	HWR - Hot Water Return system pipework; 54mm diameter		Item			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Testing and commissioning					
Q	water services installation		Item			
	Operating and maintenance manuals for					
R	water services installation		Item			
	Working drawings for					
S	water services installation		Item			
	Co-ordination drawings for					
T	water services installation		Item			
	As built drawings for					
U	water services installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Identification plates, labels and the like for					
A	water services installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
B	water services installation		Item			
	Fire stopping and other associated fire protection work for					
C	water services installation		Item			
	SPACE HEATING INSTALLATION					
	Primary Equipment					
	Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
D	Return Header; 200mm diameter	1	nr			
E	Flow Header; 200mm diameter	1	nr			
	Convent					
	Ground Floor					
F	Radiator [R1]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 650mm; Delta T target 30 degrees; Heating Output target 1.21Kw	1	nr			
G	Radiator [R2]; Radiator Type V20; double vertical panel radiator; overall size1100 x 433mm; Delta T target 30 degrees; Heating Output target 0.46Kw	1	nr			
H	Radiator [R3]; Radiator Type V20; double vertical panel radiator; overall size1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
J	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 700 x 433mm; Delta T target 30 degrees; Heating Output target 0.39Kw	1	nr			
K	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
L	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R7]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 505mm; Delta T target 30 degrees; Heating Output target 0.97Kw	1	nr			
B	Radiator [R8]; Radiator Type V20; double vertical panel radiator; overall size1900 x 433mm; Delta T target 30 degrees; Heating Output target 0.74Kw	1	nr			
C	Radiator [R9]; Radiator Type V20; double vertical panel radiator; overall size1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.67Kw	1	nr			
D	Radiator [R10]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 505mm; Delta T target 30 degrees; Heating Output target 0.93Kw	1	nr			
E	Radiator [R11]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 505mm; Delta T target 30 degrees; Heating Output target 0.93Kw	1	nr			
F	Radiator [R12]; Radiator Type V20; double vertical panel radiator; overall size 1900 x 505mm; Delta T target 30 degrees; Heating Output target 0.85Kw	1	nr			
G	Radiator [R13]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 650mm; Delta T target 30 degrees; Heating Output target 1.21Kw	1	nr			
H	Radiator [R26]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
J	Radiator [R27]; Radiator Type V20; double vertical panel radiator; overall size 1200 x 433mm; Delta T target 30 degrees; Heating Output target 0.50Kw	1	nr			
K	Radiator [R28]; Radiator Type V20; double vertical panel radiator; overall size 1200 x 433mm; Delta T target 30 degrees; Heating Output target 0.50Kw	1	nr			
L	Radiator [R29]; Radiator Type V20; double vertical panel radiator; overall size 1200 x 433mm; Delta T target 30 degrees; Heating Output target 0.50Kw	1	nr			
M	Radiator [R30]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 505mm; Delta T target 30 degrees; Heating Output target 0.97Kw	1	nr			
N	Radiator [R31]; Radiator Type V20; double vertical panel radiator; overall size 1900 x 433mm; Delta T target 30 degrees; Heating Output target 0.74Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R32]; Radiator Type V20; double vertical panel radiator; overall size 1500 x 433mm; Delta T target 30 degrees; Heating Output target 0.60Kw	1	nr			
	First Floor					
B	Radiator [R36]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 650mm; Delta T target 30 degrees; Heating Output target 1.21Kw	1	nr			
C	Radiator [R37]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
D	Radiator [R38]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
E	Radiator [R39]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
F	Radiator [R40]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
G	Radiator [R41]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
H	Radiator [R42]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
J	Radiator [R43]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
K	Radiator [R44]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
L	Radiator [R45]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
M	Radiator [R46]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
N	Radiator [R47]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 505mm; Delta T target 30 degrees; Heating Output target 0.88Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R48]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
B	Radiator [R49]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
C	Radiator [R50]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 650mm; Delta T target 30 degrees; Heating Output target 1.21Kw	1	nr			
D	Radiator [R65]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
E	Radiator [R66]; Radiator Type V20; double vertical panel radiator; overall size 1000 x 433mm; Delta T target 30 degrees; Heating Output target 0.40Kw	1	nr			
F	Radiator [R67]; Radiator Type V20; double vertical panel radiator; overall size 1000 x 433mm; Delta T target 30 degrees; Heating Output target 0.40Kw	1	nr			
G	Radiator [R68]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
	Second Floor					
H	Radiator [R71]; Radiator Type V20; double vertical panel radiator; overall size 2200 x 650mm; Delta T target 30 degrees; Heating Output target 1.21Kw	1	nr			
J	Radiator [R72]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1700mm; Delta T target 30 degrees; Heating Output target 1.53Kw	1	nr			
K	Radiator [R73]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
L	Radiator [R74]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
M	Radiator [R75]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1500mm; Delta T target 30 degrees; Heating Output target 1.35Kw	1	nr			
N	Radiator [R76]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R77]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
B	Radiator [R78]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1500mm; Delta T target 30 degrees; Heating Output target 1.35Kw	1	nr			
C	Radiator [R79]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
D	Radiator [R80]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1500mm; Delta T target 30 degrees; Heating Output target 1.35Kw	1	nr			
E	Radiator [R81]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
F	Radiator [R82]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1800mm; Delta T target 30 degrees; Heating Output target 1.62Kw	1	nr			
G	Radiator [R83]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
H	Radiator [R84]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
J	Radiator [R99]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
K	Radiator [R100]; Radiator Type V20; double vertical panel radiator; overall size 1000 x 433mm; Delta T target 30 degrees; Heating Output target 0.40Kw	1	nr			
L	Radiator [R101]; Radiator Type V20; double vertical panel radiator; overall size 1000 x 433mm; Delta T target 30 degrees; Heating Output target 0.40Kw	1	nr			
M	Radiator [R102]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
	Third Floor					
N	Radiator [R105]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 650mm; Delta T target 30 degrees; Heating Output target 1.12Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R106]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
B	Radiator [R107]; Radiator Type V20; double vertical panel radiator; overall size 800 x 650mm; Delta T target 30 degrees; Heating Output target 0.35Kw	1	nr			
C	Radiator [R108]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 505mm; Delta T target 30 degrees; Heating Output target 0.93Kw	1	nr			
D	Radiator [R109]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 505mm; Delta T target 30 degrees; Heating Output target 0.93Kw	1	nr			
E	Radiator [R110]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 650mm; Delta T target 30 degrees; Heating Output target 1.12Kw	1	nr			
F	Radiator [R111]; Radiator Type V20; double vertical panel radiator; overall size 2000 x 650mm; Delta T target 30 degrees; Heating Output target 1.12Kw	1	nr			
G	Radiator [R126]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.80Kw	1	nr			
H	Radiator [R127]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 505mm; Delta T target 30 degrees; Heating Output target 0.93Kw	1	nr			
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
J	Thermostatic radiator valve	66	nr			
K	2 port motorized valve	53	nr			
L	3 port motorized valve	7	nr			
M	Double Regulating Valve	8	nr			
N	Isolating Valve	203	nr			
P	Strainer	23	nr			
Q	Automatic Air Vent Valve	1	nr			
R	Isolating Valve	72	nr			
S	Non Return Valve	17	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Pressure Reducing Valve	4	nr			
B	Double Regulating Valve	4	nr			
C	Double Check Valve	3	nr			
D	Drain Cock	8	nr			
E	Pressure Relief Valve	2	nr			
F	Water Hammer Arrestor	3	nr			
G	Lock Shield Valve	5	nr			
	Accessories associated with primary equipment					
	Controls; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
H	Sensor Pocket (Pressure) Sensor	3	nr			
J	Sensor Pocket (Temperature) Sensor	28	nr			
K	Heat Meter	6	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
L	Heating pipework; 15mm diameter		Item			
M	Heating pipework; 20mm diameter		Item			
N	Heating pipework; 25mm diameter		Item			
P	Refrigerant pipework; 15mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
Q	Heating pipework; 15mm diameter		Item			
R	Heating pipework; 20mm diameter		Item			
S	Heating pipework; 25mm diameter		Item			
T	Refrigerant pipework; 15mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
	Testing and commissioning					
A	Space Heating Installation		Item			
	Operating and maintenance manuals for					
B	Space Heating Installation		Item			
	Working drawings for					
C	Space Heating Installation		Item			
	Co-ordination drawings for					
D	Space Heating Installation		Item			
	As built drawings for					
E	Space Heating Installation		Item			
	Identification plates, labels and the like for					
F	Space Heating Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Space Heating Installation		Item			
	Fire stopping and other associated fire protection work for					
H	Space Heating Installation		Item			
	<u>UNDERFLOOR HEATING INSTALLATION</u>					
	System					
	System; Design, install and commission underfloor heating system by Specialist underfloor heating company; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
J	Underfloor Heating System	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Testing and commissioning					
A	Underfloor Heating Installation		Item			
	Operating and maintenance manuals for					
B	Underfloor Heating Installation		Item			
	Working drawings for					
C	Underfloor Heating Installation		Item			
	Co-ordination drawings for					
D	Underfloor Heating Installation		Item			
	As built drawings for					
E	Underfloor Heating Installation		Item			
	Identification plates, labels and the like for					
F	Underfloor Heating Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Underfloor Heating Installation		Item			
	Fire stopping and other associated fire protection work for					
H	Underfloor Heating Installation		Item			
	<u>VENTILATION INSTALLATION</u>					
	Primary Equipment					
	Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Convent					
	Heat Recovery Units					
J	Heat Recovery Unit; Ref H.R.U 1; Mitsubishi Lossnay LGH35RVX-E or equalled and approved heat recovery unit; Flowrate, 88-350m3/hr; PA 175; room control; overall size 888mm wide x 874mm deep x 331mm high; Location: Ground Floor	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Heat Recovery Unit; Ref H.R.U 2; Airmaster AMX4 or equalled and approved heat recovery unit; Flowrate, 231-344m3/hr; PA 75; including condensate drain to local waste pipe; room control; overall size 2055mm wide x 1100mm deep x 358mm high; Location: Ground Floor	1	nr			
B	Heat Recovery Unit; Ref H.R.U 3; Airmaster AMX4 or equalled and approved heat recovery unit; Flowrate, 231-344m3/hr; PA 75; including condensate drain to local waste pipe; room control; overall size 2055mm wide x 1100mm deep x 358mm high; Location: Ground Floor	1	nr			
C	Heat Recovery Unit; Ref H.R.U 4; Mitsubishi Lossnay LGH35RVX-E or equalled and approved heat recovery unit; Flowrate, 88-350m3/hr; PA 175; room control; overall size 888mm wide x 874mm deep x 331mm high; Location: Ground Floor	1	nr			
D	Heat Recovery Unit; Ref H.R.U 5; Mitsubishi Lossnay LGH50RVX-E or equalled and approved heat recovery unit; Flowrate, 125-500m3/hr; PA 175; room control; overall size 888mm wide x 1016mm deep x 331mm high; Location: First Floor	1	nr			
E	Heat Recovery Unit; Ref H.R.U 6; Mitsubishi Lossnay LGH50RVX-E or equalled and approved heat recovery unit; Flowrate, 125-500m3/hr; PA 175; room control; overall size 888mm wide x 1016mm deep x 331mm high; Location: First Floor	1	nr			
F	Heat Recovery Unit; Ref MVHR 7; Aldes InspirAIR 300 V2 Classic (DHU) or equalled and approved mechanical heat recovery unit; Flowrate,150-300m3/hr; PA 200; room control; including condensate drain to local waste pipe; room control; overall size 1126mm wide x 595mm deep x 320mm high; Location: Second Floor	1	nr			
G	Heat Recovery Unit; Ref MVHR 8; Aldes InspirAIR 300 V2 Classic (DHU) or equalled and approved mechanical heat recovery unit; Flowrate,150-300m3/hr; PA 200; room control; including condensate drain to local waste pipe; room control; overall size 1126mm wide x 595mm deep x 320mm high; Location: Second Floor	1	nr			
H	Heat Recovery Unit; Ref MVHR 9; Aldes InspirAIR 300 V2 Classic (DHU) or equalled and approved mechanical heat recovery unit; Flowrate,150-300m3/hr; PA 200; room control; including condensate drain to local waste pipe; room control; overall size 1126mm wide x 595mm deep x 320mm high; Location: Second Floor	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Heat Recovery Unit; Ref H.R.U 10; Airmaster AM150 or equalled and approved heat recovery unit; Flowrate, 80-225m3/hr; PA 75; room control; including condensate drain to local waste pipe; overall size 1170mm wide x 572mm deep x 261mm high; Location: Third Floor	1	nr			
B	Heat Recovery Unit; Ref H.R.U 11; Airmaster AM300 or equalled and approved heat recovery unit; Flowrate, 180-315m3/hr; PA 75; room control; including condensate drain to local waste pipe; overall size 1180mm wide x 705mm deep x 344mm high; Location: Third Floor	1	nr			
C	Heat Recovery Unit; Ref H.R.U 12; Airmaster AM500 or equalled and approved heat recovery unit; Flowrate, 344-550m3/hr; PA 75; room control; including condensate drain to local waste pipe; overall size 1180mm wide x 705mm deep x 344mm high; Location: Third Floor	1	nr			
	Terminal Equipment					
	Terminal equipment; Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Extract Fans					
	Convent					
D	Extract Fan; Ref E.F.1; Mixvent or equal and approved duct mounted inline fan unit; 150mm diameter fan; Flowrate, 312m3/hr; PA 50; light switch control; timer run on	1	nr			
E	Extract Fan; Ref E.F.2; Mixvent or equal and approved duct mounted inline fan unit; 125mm diameter fan; Flowrate, 130m3/hr; PA 75; light switch control; timer run on	1	nr			
F	Extract Fan; Ref E.F.3; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 84m3/hr; PA 75; light switch control; timer run on	1	nr			
G	Extract Fan; Ref E.F.4; Mixvent or equal and approved duct mounted inline fan unit; 200mm diameter fan;Flowrate, 403m3/hr; PA 50; temperature/humidity stat control; timer run on	1	nr			
H	Extract Fan; Ref E.F.10; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 69m3/hr; PA 75; light switch control; timer run on	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extract Fan; Ref E.F.11; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 37m3/hr; PA 75; light switch control; timer run on	1	nr			
B	Extract Fan; Ref E.F.12; Mixvent or equal and approved duct mounted inline fan unit; 200mm diameter fan;Flowrate, 320m3/hr; PA 75; temperature/humidity stat control; timer run on	1	nr			
C	Extract Fan; Ref E.F.13; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
D	Extract Fan; Ref E.F.14; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
E	Extract Fan; Ref E.F.19; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 69m3/hr; PA 75; light switch control; timer run on	1	nr			
F	Extract Fan; Ref E.F.20; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 37m3/hr; PA 75; light switch control; timer run on	1	nr			
G	Extract Fan; Ref E.F.21; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
H	Extract Fan; Ref E.F.22; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
J	Extract Fan; Ref E.F.23; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
K	Extract Fan; Ref E.F.24; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
L	Extract Fan; Ref E.F.25; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Extract Fan; Ref E.F.26; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
B	Extract Fan; Ref E.F.27; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
C	Extract Fan; Ref E.F.32; Mixvent or equal and approved duct mounted inline fan unit; 125mm diameter fan; Flowrate, 70m3/hr; PA 75; light switch control; timer run on	1	nr			
D	Extract Fan; Ref E.F.33; duct connected to double extract hood; 150mm diameter fan; Flowrate, 600m3/hr; PA 100; 3 speed control; timer run on	1	nr			
E	Extract Fan; Ref E.F.34; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
F	Extract Fan; Ref E.F.35; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
G	Extract Fan; Ref E.F.36; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
H	Extract Fan; Ref E.F.37; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
J	Extract Fan; Aereco or equal and approved multifunctional extract fan with humidity and presence detectors; boost delay; Ref BXC275	7	nr			
K	Extract Fan; Aereco or equal and approved multifunctional extract fan with humidity and presence detectors; boost delay; Ref BXC273	2	nr			
L	Extract Fan; Aereco or equalled and approved demand controlled mechanical extract fan; Ref 2VA	4	nr			
M	Extract Fan; Aereco or equalled and approved smoke shaft extract fans; 400/3/50; 9.00kW; FLC /Start	2	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with primary equipment					
	Controls;Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
A	HRU Controllers	9	nr			
B	MVHR Controllers	3	nr			
C	Temperature and Humidity Sensors	1	nr			
	MECHANICAL SMOKE VENTILATION					
	Mechanical Smoke Ventilation System					
	Mechanical Smoke Ventilation System; to be designed, supplied and installed by a Specialist Sub Contractor; system to ventilate the protected corridors/lobbies for means of escape; the following equipment to be included to each Smoke Shaft, 1 No. smoke fan, 1 No. duty/standby fire rated extract fan set; 3 No. smoke shaft dampers, 4 No. override switches, 3 No. pressure sensors, 2 No. key switches, 3 No. ASI boxes, 1 No. touch screen panel and 1 No. MCC panel; the following equipment to be included for the Facade equipment; 3 No. Facade AOV's, ; 4 No. firemans override switches and 1 No. MCC panel; Roof AOV's and Shaft Doors to be supplied and installed by others; the system to be as per the Mechanical Specification and section 6 of TGD-B-2024 as detailed in the Compliance Section 1.4.4 and have a proven equivalent performance of to a natural smoke shaft as specified in Para 6.6.2.2					
D	Smoke Shaft 1, Smoke Shaft 2 & Facade Ventilation	1	Item			
	Terminal equipment and fittings					
	Terminal equipment and fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Supply Grilles					
E	Supply Grilles; 4 way diffuser style supply grilles complete with grille box; overall size 200 x 200mm; as per Supply Grilles Schedule	19	nr			
	Extract Grilles					
F	Extract Grilles; 4 way diffuser style extract grilles complete with grille box; overall size 200 x 200mm; as per Extract Grilles Schedule	10	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extract Grilles; toilet extract grilles; 100mm diameter; as per Extract Grilles Schedule	15	nr			
B	Extract Grilles; vent extract grilles; 100mm diameter; as per Extract Grilles Schedule	15	nr			
	Diffuse Grilles					
C	Diffuse Grilles; Diffuse extract grilles; 100mm diameter; as per Extract Grilles Schedule	15	nr			
	External Louvres; square neck louvres complete with back draft shutter; as per Louvres Schedule					
D	External Louvres; overall size 150 x 150mm	16	nr			
E	External Louvres; overall size 200 x 200mm	16	nr			
F	External Louvres; overall size 250 x 250mm	6	nr			
G	External Louvres; overall size 300 x 300mm	2	nr			
	Distribution system					
	Ductwork; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
H	Supply air system ductwork; sizes of ducting as per drawings		Item			
J	Extract air system ductwork; sizes of ducting as per drawings		Item			
	Ductwork Fittings and Accessories; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Fire Smoke Dampers; circular motorized smoke and fire damper; mounted in ventilation ducts					
K	Fire Smoke Dampers; S30 fire rating	18	nr			
L	Fire Smoke Dampers; S60 fire rating	8	nr			
	Dampers					
M	Volume Control Dampers	18	nr			
N	Smoke Damper Panel	1	nr			
P	Temperature and Humidity Sensor	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Insulation					
	Insulation;					
A	Insulation to supply air system ductwork; sizes of ducting as per drawings		Item			
B	Insulation to extract air system ductwork; sizes of ducting as per drawings		Item			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Testing and commissioning					
C	Ventilation Installation		Item			
	Operating and maintenance manuals for					
D	Ventilation Installation		Item			
	Working drawings for					
E	Ventilation Installation		Item			
	Co-ordination drawings for					
F	Ventilation Installation		Item			
	As built drawings for					
G	Ventilation Installation		Item			
	Identification plates, labels and the like for					
H	Ventilation Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
J	Ventilation Installation		Item			
	Fire stopping and other associated fire protection work for					
K	Ventilation Installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	TESTING AND SAMPLING					
	Include for all testing & sample requirements as set out in the Architects works requirements					
A	Testing	1	Item			
B	Samples	1	Item			
	Include for all testing & sample requirements as set out in the Engineers works requirements					
C	Testing	1	Item			
D	Samples	1	Item			
	Include for all testing & sample requirements as set out in the Services Engineers works requirements					
E	Testing	1	Item			
F	Samples	1	Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/15/1					
Page No. Conv/15/2					
Page No. Conv/15/3					
Page No. Conv/15/4					
Page No. Conv/15/5					
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Page No. Conv/15/8					
Page No. Conv/15/9					
Page No. Conv/15/10					
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Page No. Conv/15/13					
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Page No. Conv/15/15					
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Page No. Conv/15/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/15/25					
Page No. Conv/15/26					
Page No. Conv/15/27					
EL (59) MECHANICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(69) ELECTRICAL INSTALLATION					
	ELECTRICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Electrical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Electrical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL INSTALLATION					
	Deviation from ARM 4					
A	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement ARM 4 - Agreed Alternative Rules for the Measurement of Services Installations. The Electrical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Item			
	GENERAL SERVICES, SMALL POWER & COMMUNICATIONS SYSTEM INSTALLATIONS					
	System					
B	General services, small power & communications services systems to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24		Item			
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification/Scope of Work document					
	Convent					
C	Mains Distribution Board; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E124	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Sub Mains Distribution Board; Locations - Each Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	4	nr			
B	Mains Domestic Distribution Board; Locations - Each Apartment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	5	nr			
C	Mechanical Control Panel; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	1	nr			
D	Mains Distribution Facility; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24		nr			
E	Comms cabinet; Location; Third Floor; complete with Main distribution facility, door access gateway, Comms Junction box; 2 No. 20A fused spur; Network Video Recorder	1	nr			
F	Primary Distribution Cabinet; Location; Ground Floor	1	nr			
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24					
	Convent					
G	Television Outlets; CAT 6A cabling	17	nr			
H	Double Data Point; CAT 6A cabling (2 No. RJ45 to be wired in separate conduit to Main Distribution Facility)	19	nr			
J	CCTV Data Outlets; CAT 6A cabling with PoE (to be wired in separate conduit to Digital Recorder)	7	nr			
K	TV Outlets; (to be wired in separate conduit to TV patch panel)	2	nr			
L	13A Twin switched outlet complete with Part M compliant socket outlet	119	nr			
M	16A Twin switched outlet complete with Part M compliant socket outlet' located over counter	13	nr			
N	20A Switched fused spur outlet outlet complete with neon light (Ventilation Fan)	8	nr			
P	20A Switched fused spur outlet outlet complete with neon light (Hand Dryer)	13	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	13A Switched fused spur outlet outlet complete with neon light (Motorized Valve)	12	nr			
B	20A Switched fused spur outlet outlet complete with neon light (Immersion & Clock)	1	nr			
C	13A Unswitched fused spur outlet outlet complete with neon light (Fire Alarm Panel)	1	nr			
D	13A Unswitched fused spur outlet outlet complete with neon light (Door Access Control); IP65 rated	1	nr			
E	3 Com Dado trunking without busbars; PVC; 170mm x 50mm; 3 No. compartments	5	nr			
F	Extract Fan location	11	nr			
G	Firemans Switch	1	nr			
H	13A Unswitched fused spur outlet outlet complete with neon light (Fire Alarm Panel)	1	nr			
J	Floor Box; complete with 2 No. twin switched socket outlet; 1 No. double data point)	2	nr			
K	Room Thermostat	55	nr			
L	13A Switched fused spur outlet; outlet complete with neon light (Room Thermostat)	55	nr			
M	13A Unswitched fused spur outlet; outlet complete with neon light (Automatic Opening Vent)	8	nr			
N	13A Switched fused spur outlet; outlet complete with neon light (Heat Recovery Unit)	10	nr			
P	20A Switched fused spur outlet; outlet complete with neon light (Circulating Pump)	3	nr			
Q	13A Switched fused spur outlet; outlet complete with neon light (2-3 Port Motorized Valve)	22	nr			
R	13A Unswitched fused spur outlet; outlet complete with neon light (Automatic Opening Vent)	5	nr			
S	Single Data Point; CAT 6A cabling (to be wired in separate conduit); WIFI future connection	3	nr			
T	13A Switched fused spur outlet; outlet complete with neon light (Disabled Refuge)	2	nr			
U	13A Switched fused spur outlet; outlet complete with neon light (Disabled Refuge)	2	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	13A Switched fused spur outlet; outlet complete with neon light (Fridge Freezer)	7	nr			
B	32A 3 phase surface socket outlet; Lift; IP67 rated	4	nr			
C	20A Switched fused spur outlet; outlet complete with neon light (Oil filled electrical radiator)	1	nr			
D	Test Switch for AOV; complete with control panel	1	nr			
E	20A Switched fused spur outlet; outlet complete with neon light (Booster Set)	1	nr			
F	Outside Air Temperature Sensor	1	nr			
G	Outside Air Humidity Sensor	1	nr			
H	13A Unswitched fused spur outlet; outlet complete with neon light (Future Intruder Alarm)	1	nr			
J	Leak Detection Unit; complete with floor probe	1	nr			
K	32A 3 phase surface socket outlet; Outdoor air to water heat pump; IP66 rated	12	nr			
L	Mechanical Control Panel; fixing into position	1	nr			
M	Main Gas Solenoid Valve; wiring	1	nr			
N	Lossnay Controller; wiring	1	nr			
P	13A Switched double outdoor power socket, IP66	12	nr			
Q	Future WIFI box location;	9	nr			
R	Wall mounted extract fan control switch (RF/230V)	8	nr			
S	TV Outlets; (2 No. Coaxial cables/points to be provided)	2	nr			
T	Television Junction Box; allow for 2 No. x 60.0m coaxial cable	5	nr			
U	Remote Heating Panel	1	nr			
V	20A Switched fused spur outlet; outlet complete with neon light (Dish Washer)	6	nr			
W	20A Switched fused spur outlet; outlet complete with neon light (Washer/Dryer)	8	nr			
X	32A Switched Isolator outlet; outlet complete with neon light (Cooker)	6	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	13A Switched fused spur outlet; outlet complete with neon light (Kitchen Extract Fan)	6	nr			
B	Lift Panel	4	nr			
C	13A Switched fused spur outlet; outlet complete with neon light (Manifold)	1	nr			
D	230V power supply to Trace Heating; complete with IP67 rated junction box	1	nr			
E	13A Switched fused spur outlet; outlet complete with neon light (Pressurisation Set)	1	nr			
F	External Frost Thermostat	1	nr			
G	External Sensor	1	nr			
H	13A Switched fused spur outlet; outlet complete with neon light (Circulating Pump)	4	nr			
J	20A Switched fused spur outlet; outlet complete with neon light (Immersion)	1	nr			
K	13A Switched fused spur outlet; outlet complete with neon light; Part M compliant (Boiler)	1	nr			
L	IP65 camera point	5	nr			
M	Meters	4	nr			
N	13A Switched fused spur outlet; outlet complete with neon light (Oil filled electrical radiator)	1	nr			
P	Gas Safety Knock Off point	1	nr			
Q	Gas Pressure Proving System Panel; complete with key operated emergency knock off	1	nr			
R	13A Switched fused spur outlet; outlet complete with neon light; Part M compliant (Booster Pump)	1	nr			
S	13A Single switched socket outlet; outlet complete with neon light (Extract Fan)	2	nr			
T	13A Single switched socket outlet; outlet complete with neon light (Indoor Air to Water Unit)	5	nr			
U	25A Single switched socket outlet; outlet complete with neon light (External Air to Water Unit)	5	nr			
V	Electronic Room Stat	19	nr			
W	External Door Bell Push; Vandal proof	5	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Indoor Door Bell Chime unit	5	nr			
B	Double Data/Phone point service outlet (wiring in separate conduit to Data/ Telephone junction box (ATB)	3	nr			
C	Double Data/Phone point service outlet (wiring in separate conduit to Data/ Telephone junction box (ITB)	3	nr			
D	1 x 12 Way power distribution unit for cabinet; 20A fused spur connection	1	nr			
E	Pro-S 24V power supply and and damper control	28	nr			
F	Smoke Damper Panel	1	nr			
G	13A Single switched socket outlet; outlet complete with neon light (Extract Fan)	4	nr			
H	13A Single switched socket outlet; outlet complete with neon light (Manifold)	4	nr			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24					
	Testing and commissioning					
J	General services, small power & communications services system installations		Item			
	Operating and maintenance manuals for					
K	General services, small power & communications services system installations		Item			
	Working drawings					
L	General services, small power & communications services system installations		Item			
	Co-ordination drawings					
M	General services, small power & communications services system installations		Item			
	As built drawings					
N	General services, small power & communications services system installations		item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Digital safety file					
A	General services, small power & communications services system installations		Item			
	Identification plates, labels and the like for					
B	General services, small power & communications services system installations		Item			
	Demonstrations					
C	General services, small power & communications services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
D	General services, small power & communications services system installations		Item			
	Fire stopping and other associated fire protection work for					
E	General services, small power & communications services system installations		Item			
	DOOR ACCESS CONTROL INSTALLATIONS					
	Access Control System					
F	Access Control Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16		Item			
	Fittings					
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
G	Push to exit push plate	12	nr			
H	13A Single switched spurt outlet; outlet complete with neon light (Door Access); Part M compliant	9	nr			
J	Key Pad; IP67 rated; complete with fob reader	9	nr			
K	Two way intercom system - 8 call pushbuttons outdoor video entrance panel with camera; IP67 rated	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Door Access Gateway WIFI access hub interconnected with main distribution facility	7	nr			
B	Push and Go door drive system	2	nr			
C	Motorized disabled assisted open door driver	1	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Mains & Sub mains cable distribution system					
D	CCTV Services system installations		Item			
E	Access Control Services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
	Convent					
F	Push to exit push plate	12	nr			
G	13A Single switched spurt outlet; outlet complete with neon light (Door Access); Part M compliant	9	nr			
H	Key Pad; IP67 rated; complete with fob reader	9	nr			
J	Two way intercom system - 8 call pushbuttons outdoor video entrance panel with camera; IP67 rated	1	nr			
K	Door Access Gateway WIFI access hub interconnected with main distribution facility	7	nr			
L	Push and Go door drive system	2	nr			
M	Motorized disabled assisted open door driver	1	nr			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
N	Access Control Services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Testing and commissioning					
A	Access Control Services system installations		Item			
	Operating and maintenance manuals for					
B	Access Control Services system installations		Item			
	Working drawings					
C	Access Control Services system installations		Item			
	Co-ordination drawings					
D	Access Control Services system installations		Item			
	As built drawings					
E	Access Control Services system installations		Item			
	Digital safety file					
F	Access Control Services system installations		Item			
	Identification plates, labels and the like for					
G	Access Control Services system installations		Item			
	Demonstrations					
H	Access Control Services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
J	Access Control Services system installations		Item			
	Fire stopping and other associated fire protection work for					
K	Access Control Services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	GENERAL AND EMERGENCY LIGHTING INSTALLATIONS					
	System					
A	General & emergency lighting system installations; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10		Item			
	Fittings					
	Light fittings, including LED lamps; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
B	Refer to Service Engineers schedule of luminaires for light fitting specifications		Note			
	Domestic Areas					
C	Type B; Ansell Code AVIL/1/GR Vision CCT dual wattage LED bulkhead fitting; modern IP65 ; 18W - 2100LM - CCT selectable at 4000K	1	nr			
D	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	18	nr			
E	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	9	nr			
F	Type ST; Thorn Katona LED luminaire; Class II electrical, IP65; fixed output; complete with 4000K LED	1	nr			
	Administration Areas					
G	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	6	nr			
H	LED under cupboard light; 2.75m long		nr			
J	Bega Pendant Luminaire; Ref 24131K3; complete with connection box; ; 110 MM LED; 50.2W; Luminous Flux 8104LM; colour temperature 3000K	24	nr			
K	Type B1 Luminaire; Planlicht Ophelia surface mounted luminaire; white; IP54 rating; 330MM luminous flux of 1873LM with 15 W; colour temperature of 3000K	13	nr			
L	Type B2 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 250MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	13	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	14	nr			
B	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K; wall hung	20	nr			
C	Type B4 Luminaire; Intra Lighting Nitor RVSOP 1050-2000 recessed ceiling fitting; luminous flux of 1615LM with 12.55 W; colour temperature of 3000K	57	nr			
D	Bega Pendant Luminaire; Ref 24980K3; 19.3W; Luminous Flux 2100LM; colour temperature 3000K	10	nr			
E	External Luminaire; WE-EF/131-9631 PLS 420 LED luminaire; 265 x 225 x 70mmVentilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	5	nr			
F	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Corridors	35	nr			
G	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Offices	22	nr			
H	Emergency Sign; Thorn Voyager Sigma ceiling mounted 3 hour maintained Dali Emergency LED exit box	16	nr			
J	External Luminaire; Thorn Piazza II L 1 x 42W TC-T HF PR wall mounted vandal resistant luminaire; IP 65 rated; roof level	2	nr			
K	Emergency External Luminaire; Thorn Piazza II L 1 x 42W TC-T HF PR wall mounted vandal resistant luminaire; IP 65 rated; ; aluminium protector; roof level	2	nr			
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
L	One way switch; include for back box	62	nr			
M	Two way switch; include for back box	6	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Over ride switch; include for back box; external	9	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling;					
	Mains & Sub mains cable distribution system					
B	General & emergency lighting system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
C	Type B; Ansell Code AVIL/1/GR Vision CCT dual wattage LED bulkhead fitting; modern IP65 ; 18W - 2100LM - CCT selectable at 4000K	1	nr			
D	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	18	nr			
E	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	9	nr			
F	Type ST; Thorn Katona LED luminaire; Class II electrical, IP65; fixed output; complete with 4000K LED	1	nr			
G	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	6	nr			
H	LED under cupboard light; 2.75m long		nr			
J	Bega Pendant Luminaire; Ref 24131K3; complete with connection box; ; 110 MM LED; 50.2W; Luminous Flux 8104LM; colour temperature 3000K	24	nr			
K	Type B1 Luminaire; Planlicht Ophelia surface mounted luminaire; white; IP54 rating; 330MM luminous flux of 1873LM with 15 W; colour temperature of 3000K	13	nr			
L	Type B2 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 250MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	13	nr			
M	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	14	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K; wall hung	20	nr			
B	Type B4 Luminaire; Intra Lighting Nitor RVSOP 1050-2000 recessed ceiling fitting; luminous flux of 1615LM with 12.55 W; colour temperature of 3000K	57	nr			
C	Bega Pendant Luminaire; Ref 24980K3; 19.3W; Luminous Flux 2100LM; colour temperature 3000K	10	nr			
D	External Luminaire; WE-EF/131-9631 PLS 420 LED luminaire; 265 x 225 x 70mmVentilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	5	nr			
E	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Corridors	35	nr			
F	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Offices	22	nr			
G	Emergency Sign; Thorn Voyager Sigma ceiling mounted 3 hour maintained Dali Emergency LED exit box	16	nr			
H	External Luminaire; Thorn Piazza II L 1 x 42W TC-T HF PR wall mounted vandal resistant luminaire; IP 65 rated; roof level	2	nr			
J	Emergency External Luminaire; Thorn Piazza II L 1 x 42W TC-T HF PR wall mounted vandal resistant luminaire; IP 65 rated; ; aluminium protector; roof level	2	nr			
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
	Landlord Areas					
K	One way switch; include for back box; external	8	nr			
L	Over ride switch; include for back box; external	9	nr			
M	One way lockable switch; IP65 rated; include for back box	1	nr			
N	One way pulse switch; include for back box	3	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	PIR Censor; Glamox or equal and approved sensor Ref LMS DALI 12 PIR CLS; motion detecting	16	nr			
B	PIR Censor; Glamox or equal and approved sensor Ref LMS DALI 12 PIR CLS; motion detecting; external	1	nr			
C	Detection sensor; Glamox or equal and approved sensor; type C-Sen	23	nr			
D	Detection sensor; Glamox or equal and approved sensor; type P-Sen	20	nr			
E	WC Light pulse switching	10	nr			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
F	General & emergency lighting system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Testing and commissioning					
G	General & emergency lighting system installations		Item			
	Operating and maintenance manuals for					
H	General & emergency lighting system installations		Item			
	Working drawings					
J	General & emergency lighting system installations		Item			
	Co-ordination drawings					
K	General & emergency lighting system installations		Item			
	As built drawings					
L	General & emergency lighting system installations		Item			
	Digital safety file					
M	General & emergency lighting system installations		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Identification plates, labels and the like for					
A	General & emergency lighting system installations		Item			
	Demonstrations					
B	General & emergency lighting system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
C	General & emergency lighting system installations		Item			
	Fire stopping and other associated fire protection work for					
D	General & emergency lighting system installations		Item			
	FIRE ALARM / DISABLED ALARM INSTALLATION					
	System					
E	Fire Alarm Installation to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13, E14 & E15		Item			
	Equipment					
	Fire Alarm Installation; Equipment; installation all as per Services Engineers Electrical Specification and Services Engineers Drawings E11,E12, E13, E14 & E15					
	Convent					
F	Fire Alarm Panel; Location, Ground Floor	1	nr			
G	Aspirating Smoke Detector Unit; Location, Second Floor	1	nr			
H	Disabled Refuge System; Wheelchair Refuge Areas	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Convent; Landlord Areas					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	20	nr			
B	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	52	nr			
C	Addressable Interlinked Void Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	3	nr			
D	Firemans Switch	1	nr			
E	Fire Alarm AOV	9	nr			
F	Manual Call Point; fixed 1200mm above F.F.L	11	nr			
G	LED Indicator; interlinked to unit addressable fire alarm sounder	1	nr			
H	Addressable External Fire Alarm sounder/strobe unit	1	nr			
J	Fire Alarm Interface Unit complete with electrical spur	24	nr			
K	Fire Alarm Interface (Ventilation) Unit complete with electrical spur	10	nr			
L	Emergency Panel Receiver	1	nr			
M	Magnetic door lock release	15	nr			
	Convent; Domestic Areas					
N	Addressable interlinked Fire Alarm Heat Detector complete with sounder	5	nr			
P	Addressable interlinked Fire Alarm Smoke Detector complete with sounder	1	nr			
Q	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	6	nr			
R	Carbon Monoxide Detector; mains operated, battery back-up	1	nr			

	Description	Qty	Unit	Rate	€	c
A	Smoke Detector complete with sounder; mains operated, battery back-up	9	nr			
B	Heat Detector complete with sounder; mains operated, battery back-up	6	nr			
	Disabled Alarm Services					
	Convent					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
C	Disabled persons alarm; 800 series call system; standard kit; overdoor light	5	nr			
D	Disabled persons alarm; 800 series call system; standard kit; reset button and sounder	1	nr			
E	Disabled persons alarm; 800 series call system; standard kit complete with anti-ligature pull cord	5	nr			
F	Disabled persons alarm; reset button	4	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6					
G	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location: (Routed via ceiling void)		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Final circuits (including points terminations)					
	Terminations					
	Terminations to Fire Alarm installations					
H	Fire Alarm Panel; Location, Ground Floor	1	nr			
J	Aspirating Smoke Detector Unit; Location, Second Floor	1	nr			
K	Disabled Refuge System; Wheelchair Refuge Areas	1	nr			
L	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	20	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	52	nr			
B	Addressable Interlinked Void Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	3	nr			
C	Firemans Switch	1	nr			
D	Fire Alarm AOV	9	nr			
E	Manual Call Point; fixed 1200mm above F.F.L	11	nr			
F	LED Indicator; interlinked to unit addressable fire alarm sounder	1	nr			
G	Addressable External Fire Alarm sounder/strobe unit	1	nr			
H	Fire Alarm Interface Unit complete with electrical spur	24	nr			
J	Fire Alarm Interface (Ventilation) Unit complete with electrical spur	10	nr			
K	Emergency Panel Receiver	1	nr			
L	Magnetic door lock release	15	nr			
	Convent; Domestic Areas					
M	Addressable interlinked Fire Alarm Heat Detector complete with sounder	5	nr			
N	Addressable interlinked Fire Alarm Smoke Detector complete with sounder	1	nr			
P	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	6	nr			
Q	Carbon Monoxide Detector; mains operated, battery back-up	1	nr			
R	Smoke Detector complete with sounder; mains operated, battery back-up	9	nr			
S	Heat Detector complete with sounder; mains operated, battery back-up	6	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Disabled Alarm Services					
	Convent					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Disabled persons alarm; 800 series call system; standard kit; overdoor light	5	nr			
B	Disabled persons alarm; 800 series call system; standard kit; reset button and sounder	1	nr			
C	Disabled persons alarm; 800 series call system; standard kit complete with anti-ligature pull cord	5	nr			
D	Disabled persons alarm; reset button	4	nr			
	Convent					
	Earthing and bonding installation					
E	Fire Alarm System Installation		Item			
F	Diabled Alarm System Installation		Item			
	General					
	General items; all as					
	Testing and commissioning					
G	Fire Alarm System Installation		Item			
H	Disabled Alarm Services Installation		Item			
	Operating and maintenance manuals for					
J	Fire Alarm System Installation		Item			
K	Disabled Alarm Services Installation		Item			
	Working drawings					
L	Fire Alarm System Installation		Item			
M	Disabled Alarm Services Installation		Item			
	Co-ordination drawings					
N	Fire Alarm System Installation		Item			
P	Disabled Alarm Services Installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Protective services system installation integration/interface to/with existing hospital system		Item			
	As built drawings					
B	Fire Alarm System Installation		Item			
C	Disabled Alarm Services Installation		Item			
	Digital safety file					
D	Fire Alarm System Installation		Item			
E	Disabled Alarm Services Installation		Item			
	Identification plates, labels and the like for					
F	Fire Alarm System Installation		Item			
G	Disabled Alarm Services Installation		Item			
	Demonstrations					
H	Fire Alarm System Installation		Item			
J	Disabled Alarm Services Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
K	Fire Alarm System Installation		Item			
L	Disabled Alarm Services Installation		Item			
	Fire stopping and other associated fire protection work for					
M	Fire Alarm System Installation		Item			
N	Disabled Alarm Services Installation		Item			
	<u>INTRUDER ALARM INSTALLATION</u>					
	Intruder Alarm System					
P	Intruder Alarm Installation to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Intruder Alarm Installation; Equipment; installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Convent					
A	Intruder Alarm Control Panel; Location, Ground Floor	1	nr			
	Accessories associated with terminal equipment					
	Convent					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
B	Internal Sounder	3	nr			
C	Passive Infrared Intruder Detector	14	nr			
D	Internal Key Pad for Alarm	1	nr			
E	Magnetic Reed Contact	7	nr			
F	External Strobe/Sounder	1	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Final circuits (including points terminations)					
	Terminations					
	Terminations to Intruder Alarm installations					
	Convent					
	Equipment					
G	Intruder Alarm Control Panel; Location, Ground Floor	1	nr			
H	Internal Sounder	3	nr			
J	Passive Infrared Intruder Detector	14	nr			
K	Internal Key Pad for Alarm	1	nr			
L	Magnetic Reed Contact	7	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	External Strobe/Sounder	1	nr			
	Earthing and bonding installation					
B	Intruder Alarm Installation		Item			
	General					
	General items;					
	Testing and commissioning					
C	Intruder Alarm Installation		Item			
	Operating and maintenance manuals for					
D	Intruder Alarm Installation		Item			
	Working drawings					
E	Intruder Alarm Installation		Item			
	Co-ordination drawings					
F	Intruder Alarm Installation		Item			
	As built drawings					
G	Intruder Alarm Installation		Item			
	Digital safety file					
H	Intruder Alarm Installation		Item			
	Identification plates, labels and the like for					
J	Intruder Alarm Installation		Item			
	Demonstrations					
K	Intruder Alarm Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
L	Intruder Alarm Installation		Item			
	Fire stopping and other associated fire protection work for					
M	Intruder Alarm Installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	SECURITY SERVICES INSTALLATIONS					
	CCTV System					
A	CCTV Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
B	Access Control Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
	Equipment					
	Equipment; all as per Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents and Drawings					
	Convent					
C	CCTV 8 Channel network video recorder complete with 3TB storage	1	nr			
	Fittings					
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	CCTV System					
D	External digital colour camera; camera to to be 2048 x1536 image resolution colour by day, black and white by night; with varifocal auto IRS lens 2-12mm; Infrared LED; Interface 1RJ45 10m/100m Ethernet; external	1	nr			
E	Dome digital colour camera; camera to to be 2048 x 1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	10	nr			
F	12V supply CAT 6A wired back to NVR	4	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Mains & Sub mains cable distribution system					
A	CCTV Services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
	Convent					
B	External digital colour camera; camera to to be 2048 x1536 image resolution colour by day, black and white by night; with varifocal auto IRS lens 2-12mm; Infrared LED; Interface 1RJ45 10m/100m Ethernet; external	1	nr			
C	Dome digital colour camera; camera to to be 2048 x 1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	10	nr			
	General earthing and bonding					
	all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
D	CCTV Services system installations		Item			
E	Access Control Services system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Testing and commissioning					
F	CCTV Services system installations		Item			
	Operating and maintenance manuals for					
G	CCTV Services system installations		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Working drawings					
A	CCTV Services system installations		Item			
	Co-ordination drawings					
B	CCTV Services system installations		Item			
	As built drawings					
C	CCTV Services system installations		Item			
	Digital safety file					
D	CCTV Services system installations		Item			
	Identification plates, labels and the like for					
E	CCTV Services system installations		Item			
	Demonstrations					
F	CCTV Services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	CCTV Services system installations		Item			
	Fire stopping and other associated fire protection work for					
H	CCTV Services system installations		Item			
	CABLE LADDER/TRAY/TRUNKING SYSTEM INSTALLATIONS					
	System					
J	Cable ladder/tray/trunking services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Convent					
	Ground Floor Level; as per Drawing E20					
A	LV cable tray with fittings; 200mm wide x 55mm high		Item			
B	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
C	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	First Floor Level; as per Drawing E21					
D	LV cable tray with fittings; 200mm wide x 55mm high		Item			
E	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
F	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	Second Floor Level; as per Drawing E22					
G	LV cable tray with fittings; 200mm wide x 55mm high		Item			
H	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
J	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	Third Floor Level; as per Drawing E23					
K	LV cable tray with fittings; 200mm wide x 55mm high		Item			
L	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
M	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	Roof Level					
N	Cable trunking with fittings; 150mm wide x 150m high		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Mains & Sub mains cable distribution system					
A	Cable ladder/tray/trunking services system installations		Item			
B	Cable ladder/tray/trunking services system installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
C	Cable ladder/tray/trunking services system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Testing and commissioning					
D	Cable ladder/tray/trunking services system installations		Item			
	Operating and maintenance manuals for					
E	Cable ladder/tray/trunking services system installations		Item			
	Working drawings					
F	Cable ladder/tray/trunking services system installations		Item			
	Co-ordination drawings					
G	Cable ladder/tray/trunking services system installations		Item			
	As built drawings					
H	Cable ladder/tray/trunking services system installations		item			
	Digital safety file					
J	Cable ladder/tray/trunking services system installations		Item			
	Identification plates, labels and the like for					
K	Cable ladder/tray/trunking services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Demonstrations					
A	Cable ladder/tray/trunking services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
B	Cable ladder/tray/trunking services system installations		Item			
	Fire stopping and other associated fire protection work for					
C	Cable ladder/tray/trunking services system installations		Item			
	SITE LIGHTING SYSTEM INSTALLATIONS					
	System					
D	Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27		Item			
E	Ducting & trenching work for site lighting measured in Site Service (Mainly Electrical)		Note			
	Equipment					
	Lights fixed on standards (elsewhere measured) and all as per manufacturers recommendations; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
F	Bega or equal and approved pole top luminaire; mounted on pole (measured elsewhere); Ref 99446K3; LED luminaire, 13.6 W; Luminous Flux 1799 LM, colour temperature 3000K	1	nr			
	Lights; set in concrete base (elsewhere measured) and all as per manufacturers recommendations; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
G	Bega or equal and approved luminaire; set in concrete base (measured elsewhere); Ref Element 84747K3; LED luminaire, 22.5 W; Luminous Flux 2375 LM, colour temperature 3000K	5	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Lights; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
A	Bega or equal and approved luminaire; fitted into external wall;; Ref 22175; LED luminaire, 6.8 W; Luminous Flux 6566 LM, colour temperature 3000K	2	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
B	Site lighting services system installation		Item			
	Final Circuits (Including points terminations)					
	Terminations					
C	Bega or equal and approved pole top luminaire; mounted on pole (measured elsewhere); Ref 99446K3; LED luminaire, 13.6 W; Luminous Flux 1799 LM, colour temperature 3000K	1	nr			
D	Bega or equal and approved luminaire; set in concrete base (measured elsewhere); Ref Element 84747K3; LED luminaire, 22.5 W; Luminous Flux 2375 LM, colour temperature 3000K	5	nr			
E	Bega or equal and approved luminaire; fitted into external wall;; Ref 22175; LED luminaire, 6.8 W; Luminous Flux 6566 LM, colour temperature 3000K	2	nr			
F	Site lighting services system installation		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
G	Site lighting services system installation		Item			
	General					
	Testing and commissioning					
H	Site lighting services system installation		Item			
	Operating and maintenance manuals for					
J	Site lighting services system installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Working, co-ordination and as built drawings for					
A	Site lighting services system installation		Item			
	Identification plates, labels and the like for					
B	Site lighting services system installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
C	Site lighting services system installation		Item			
	Fire stopping and other associated fire protection work for					
D	Site lighting services system installation		Item			
	STRUCTURAL BONDING SERVICES INSTALLATIONS					
	System					
E	Structural Bonding installation; all as Services Engineers Electrical Specification and Drawings E26		Item			
	Equipment					
	Equipment; all as Services Engineers Electrical Specification and Drawings E26					
	Convent					
F	Earth Inspection pit/test chamber; complete with internal test point	3	nr			
G	Lightning Rods; 2.0m high air terminal	3	nr			
H	Vertical down conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to outside of building	38	m			
J	Horizontal conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to roof of building	85	m			
K	Bond; complete with copper tape dropper	3	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as Services Engineers Electrical Specification/ Scope of Work document Ref 11413-Z-XX-X-XXX-SP-EE-00001; General Electrical Installation Specifications document Ref 11413-Z-XX-X-XXX-SP-EE-00002 and HSE National Cabling Standards version 5.7 and Drawings 11413-Z-XX-X-L00-DR-RPS-EE-20301 and 11413-Z-XX-X-L02-DR-RPS-EE-20301					
A	structural bonding services installations		Item			
	Final circuits (including points terminations)					
	Terminations					
B	structural bonding services installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as Services Engineers Electrical Specification and Drawings E26					
C	structural bonding services installations		Item			
	General					
	General items; all as Services Engineers Electrical Specification and Drawings E26					
	Testing and commissioning					
D	structural bonding services installations		Item			
	Operating and maintenance manuals for					
E	structural bonding services installations		Item			
	Working drawings					
F	structural bonding services installations		Item			
	Co-ordination drawings					
G	structural bonding services installations		Item			
	As built drawings					
H	structural bonding services installations		Item			
	Digital safety file					
J	structural bonding services installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Identification plates, labels and the like for					
A	structural bonding services installations		Item			
	Demonstrations					
B	structural bonding services installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
C	structural bonding services installations		Item			
	Fire stopping and other associated fire protection work for					
D	structural bonding services installations		Item			
	PORTABLE FIRE EXTINGUISHERS INSTALLATION					
	Primary Equipment					
	Fire extinguishers; including all fixings, brackets and relevant signage; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
	Convent					
E	2kg CO2 fire point Including single backing board & signage	9	nr			
F	6L Water fire point Including single backing board & signage	9	nr			
G	1.80m x 1.20m fire blanket & sign c/w wall fixing	8	nr			
	Accessories associated with primary equipment					
	Accessories associated with primary equipment; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
H	Fire extinguisher cabinets fitted into recessed walls/partitions 800 x 795mm	9	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	General					
	General; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
	Testing and commissioning					
A	Portable fire extinguishers installation	1	Item			
	Operating and maintenance manuals for					
B	Portable fire extinguishers installation	1	Item			
	Working drawings for					
C	Portable fire extinguishers installation	1	Item			
	Co-ordination drawings for					
D	Portable fire extinguishers installation	1	Item			
	As built drawings for					
E	Portable fire extinguishers installation	1	Item			
	Identification plates, labels and the like for					
F	Portable fire extinguishers installation	1	Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Portable fire extinguishers installation	1	Item			
	Fire stopping and other associated fire protection work for					
H	Portable fire extinguishers installation	1	Item			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/16/1					
Page No. Conv/16/2					
Page No. Conv/16/3					
Page No. Conv/16/4					
Page No. Conv/16/5					
Page No. Conv/16/6					
Page No. Conv/16/7					
Page No. Conv/16/8					
Page No. Conv/16/9					
Page No. Conv/16/10					
Page No. Conv/16/11					
Page No. Conv/16/12					
Page No. Conv/16/13					
Page No. Conv/16/14					
Page No. Conv/16/15					
Page No. Conv/16/16					
Page No. Conv/16/17					
Page No. Conv/16/18					
Page No. Conv/16/19					
Page No. Conv/16/20					
Page No. Conv/16/21					
Page No. Conv/16/22					
Page No. Conv/16/23					
Page No. Conv/16/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/16/25					
Page No. Conv/16/26					
Page No. Conv/16/27					
Page No. Conv/16/28					
Page No. Conv/16/29					
Page No. Conv/16/30					
Page No. Conv/16/31					
Page No. Conv/16/32					
Page No. Conv/16/33					
Page No. Conv/16/34					
(69) ELECTRICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(66) TRANSPORT INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF LIFT INSTALLATION					
	Deviation from ARM 4					
	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Lift Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Note			
	LIFT INSTALLATIONS					
	System					
A	Lift installations services system installation all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment TYPE OF LIFT: Electric Drive P-Passenger elevator; COMPLIANCE CODE: The Lift Installation shall comply with EN81-20:2014 Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods, EN81-73:2016 Behaviour of lifts in the event of fire, EN81-70:2018 Accessibility to Lifts for persons including persons with disability; TYPE OF DRIVE Gearless; NUMBER OF FLOORS 4 No.: LIFT TRAVEL DISTANCE 4 No. Floors @ 3.4m per floor; RATED SPEED 1.0m/s RATED CAPACITY: 630kg/8 No. persons; SHAFT DIMENSIONS 1.65m wide x 1.80m deep; SHAFT CONSTRUCTION, Concrete; PIT HEIGHT 1.10m; HEADROOM 3.40m; ENTRANCES: 4 No. front entrances; FIRE RESISTANCE 2 hour rating (FD120); MACHINERY LOCATION; Top of lift shaft; CONTROL SYSTEM, Full Collective. Simplex; MACHINE OUTPUT 4kW; ELECTRICAL SUPPLY: Nominal supply current with shaft lighting 11A; Starting supply curent 13A; Main Fuses 10A; Power Supply, machinery 3 x 400/50 V/hZ; Power supply 230/50V/Hz; GUIDES AND ATTACHMENTS; Expander bolts fixing Car with sliding shoes; ROPES; Steel hoisting ropes; CAR DIMENSIONS 1.10m wide x 1.40m deep x 2.10m high: DOOR SIZE 0.90m wide x 2.00m high LIFT CAR FIINISHES: Floor Finishes, Ceiling Finishes Wall Finishes, Handrails and Operating Panel and Indicators as per Section 3 of the Lift Specification: LIFT CAR FITMENTS: Lift car fitments all as per Section 3 of the Lift Specification; LIFT CAR/EMERGENCY LIGHTING: all as per Section 3 of the Lift Specification; COMMUNICATION: al as per Section 3 of the Lift Specification					
A	Passenger Lift	1	Item			
	Fittings Fittings; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	3 Phase isolator	1	nr			
C	Single socket outlet	1	nr			
D	Phone point	1	nr			
E	25 amp switch fused isolator	1	nr			
F	10 amp fuse spur	1	nr			
G	Smoke aspirator unit	1	nr			
H	key reader and proximity sensor at each floor	4	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Two gang two way light switches, include for Back Box	2	nr			
	Distribution system					
	Pipework; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location:[As per Site Specific Electrical Specification Section]		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
C	Lift installations		Item			
	Final Circuits (Including points terminations)					
	Terminations					
D	Lift installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
E	Lift installations		Item			
	General					
	Testing and commissioning					
F	Lift installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	Lift installations		Item			
	Co-ordination drawings					
B	Lift installations		Item			
	As built drawings					
C	Lift installations		Item			
	Digital safety file					
D	Lift installations		Item			
	Identification plates, labels and the like for					
E	Lift installations		Item			
	Demonstrations					
F	Lift installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Lift installations		Item			
H	Allow for 300x300mm ope to top of lift shaft for lift shaft ventilation. Allow for the provision of a lift smoke vent to external air (to include all necessary fire rated ducting and roof opes, cowls etc.) which shall be compliant with the building fire certificate and in accordance with the architects specification.		Item			
J	Allow for providing metal ladder in the lift pit 1100mm deep.		Item			
K	Allow for 60/60 one hour rated fire sealing around architraves on each landing door		Item			
L	Provide opes for floor indicator boxes, 4 No. 300mm x 100mm nominal and making good.		Item			
M	Provide opes for landing push boxes, 4 No. 150 x 150 mm and making good.		Item			
N	Provide lifting beam at top of lift shaft to carry 2000 kg (Refer to Roof Element)		Item			
P	Allow for building in of door sills at each landing door.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Allow for building in 2 metres long Unistrut channel at 2 m. centres in the lift shaft.		Item			
B	Allow for floor ope at bottom of lift shaft for lift sump.		Item			
C	Allow for protective materials / sheeting to protect exposed Lift Equipment, shaft lighting, electrical accessories within the shaft etc.		Item			
D	Allow for liaison and coordination with the Electrical contractor in relation to permanent shaft lighting, phone line and power supply installation to ensure commissioning on project programme		Item			
	PAINTING AND DECORATING: Painting					
	Lift Shaft Walls					
E	> 300mm wide	102	m2			
	Fire stopping and other associated fire protection work for					
F	Lift installations		Item			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/17/1					
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Page No. Conv/17/5					
(66) TRANSPORT INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (--) BUILDERS WORK					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineer's drawings together with Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	SUNDRIES AND BUILDERS WORK					
A	Note that Forming or cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floorboards or raised access floor panels etc and making good are deemed to be included in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations.	1	Item			
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	Convent - Electrical Installation - All One Hour Fire Rating					
	Tray/Trunking					
B	500 x 180mm	4	nr			
	Internal Services - Generally					
	Power Distribution					
C	Data Points	30	nr			
D	Double Sockets	160	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Spurs	165	nr			
B	Room Stats	50	nr			
C	Main/Sub Distribution Board	4	nr			
D	Apartment Meters	5	nr			
E	MDF/IDF/Comms/PDU	2	nr			
F	MCC/RHP	1	nr			
G	Knock Off Points/Switches/Buttons	1	nr			
H	Lift Panels	4	nr			
J	CO2 Sensor/Temp Sensor/AOV Test Switch	3	nr			
K	CCTV Data Points	7	nr			
	Lighting					
L	Presence Detector	85	nr			
M	General Lights Landlord & Corridor	280	nr			
N	General Apartments	45	nr			
P	Moisture Proof Lights	4	nr			
Q	External Bulkheads/Lighting	6	nr			
R	Switches	80	nr			
S	Exit Signs	6	nr			
T	Emergency Lights (EM)	60	nr			
U	External Pole Lights	13	nr			
V	External Bollards	18	nr			
W	External Recessed Wall Light	7	nr			
	Fire Detection					
X	Smoke Heads	75	nr			
Y	Fire Alarm Sounder	16	nr			
Z	Manual Call Points	10	nr			
AA	Heat Detector	15	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Fire Alarm Panel/Repeater	1	nr			
B	Interface Units	20	nr			
C	Disabled Refuge	3	nr			
D	Disabled Alarm	2	nr			
	Extras					
E	Cable Tray	300	m			
F	Dado Trunking	25	m			
	Ventilation Services					
	Opes thro skimed plaserboard MF ceiling					
G	130mm dia	40	nr			
H	260mm dia	20	nr			
	Opes thro internal rendered masonary wall structure approx 300mm thick;					
J	130mm dia	40	nr			
K	260mm dia	23	nr			
	Opes thro external rendered masonary wall structure approx 500mm thick;					
L	130mm dia	38	nr			
M	260mm dia	12	nr			
	Opes thro reinforced concrete ribbed roof structure					
N	260mm dia	6	nr			
	Heating Centre					
	Plinths for Equipment					
	Insitu concrete plinths for equipment; include for all necessary concete, reinforcement and formwork; overall height 150mm					
P	3900 x 1400mm; plinth for outdoor heat pumps	1	nr			
Q	2360 x 1080mm; plinth for outdoor heat pumps	1	nr			
R	1500 x 600mm; plinth for headers and pumps	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	1000 x 1000mm; plinth for booster pump	1	nr			
B	1400 x 1400mm; plinth for buffer Vessels	1	nr			
C	1660 x 1660mm; plinth for calorifier	1	nr			
D	1500 x 500mm; plinth for buffer BMS panel	1	nr			
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	East Block - Mechanical Installation - All One Hour Fire Rating					
	Service Hatches					
E	Service/Maintenance Hatches; overall size 600 x 600mm	100	nr			
	Drainage					
F	Opes thro reinforced concrete ground floor slab; 50mm diameter	6	nr			
G	Opes thro reinforced concrete ground floor slab; 75mm diameter	8	nr			
H	Opes thro reinforced concrete ground floor slab; 125mm diameter	20	nr			
J	Opes thro reinforced concrete ribbed floor slab; 50mm diameter	18	nr			
K	Opes thro reinforced concrete ribbed floor slab; 75mm diameter	23	nr			
L	Opes thro reinforced concrete ribbed floor slab; 125mm diameter	55	nr			
M	Opes thro internal rendered masonary wall structure 300mm thick; 125mm diameter	24	nr			
N	Opes thro reinforced concrete ribbed roof structure; 125mm diameter	14	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Water Distribution					
	Plinths for Equipment					
	Insitu concrete plinths for equipment; include for all necessary concete, reinforcement and formwork; overall height 150mm					
A	3500 x 2500mm; plinth for cold water tank	1	nr			
	Opes thro internal rendered masonary wall structure approx 300mm thick;					
B	For water pipes; 75 x 75mm (1 No. pipe)	10	nr			
C	For water pipes; 75 x 150mm (2 No. pipe)	10	nr			
D	For water pipes; 75 x 225mm (3 No. pipe)	20	nr			
E	For water pipes; 75 x 300mm (4 No. pipe)	20	nr			
F	For water pipes; 75 x 400mm (5 No. pipe)	8	nr			
	Opes thro external rendered masonary wall structure approx 500mm thick;					
G	For water pipes; 25 x 45mm (1 No. pipe)	1	nr			
	Opes thro skimed plaserboard MF ceiling					
H	For water pipes; 75 x 75mm (1 No. pipe)	1	nr			
J	For water pipes; 75 x 225mm (3 No. pipe)	16	nr			
K	For water pipes; 75 x 300mm (4 No. pipe)	17	nr			
	Opes thro reinforced concrete ribbed roof structure					
L	For water pipes; 100 x 400mm	1	nr			
	Space Heating					
M	Opes thro 215mm block walls for water pipes; 75 x 150mm (2 No. pipes)	78	nr			
N	Opes thro 215mm block walls for water pipes; 75 x 300mm (4 No. pipes)	5	nr			
P	Opes thro ceiling slab for water pipes; 75 x 150mm	68	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. Conv/18/6					
EL (--) BUILDERS WORK **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(74) SANITARYWARE & HYGIENE FITTINGS					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	FITTINGS: Fittings Equipment and Furniture - [Sanitary Fittings]					
	WC Set					
	WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.300; "Ideal Standard I Life B" or equal and approved back to wall bowl and seat; product reference E2608; Size 400mm wide x 355mm wide x 540mm projection; Material: bowl in white vitreous china to BS 3402. Colour, White; Cistern, "Ideal Standard Concealea 3" or equal and approved back to wall concealed cistern ; Product Reference S332667; Flush plate; "Ideal Standard Concealea" or equal and approved pneumatic flush, product reference S1082AA;					
A	overall size 400mm wide x 355mm wide x 540mm projection	2	nr			
	Public WC Set					
	WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.300A; "Ideal Standard I Life B" or equal and approved back to wall bowl and seat; product reference E2608; Size 400mm wide x 355mm wide x 540mm projection; Material: bowl in white vitreous china to BS 3402. Colour, White; Cistern, "Ideal Standard Concealea 3" or equal and approved back to wall concealed cistern ; Product Reference S332667; Flush plate; "Ideal Standard Concealea" or equal and approved pneumatic flush, product reference S1082AA;					
B	generally	8	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Childrens WC Set					
	Childrens WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.302; "Ideal Standard Contour 21 Splash" or equal and approved back to wall bowl and seat; product reference S3125; Size 400mm wide x 355mm wide x 540mm projection; Material: bowl in white vitreous china to BS 3402. Colour, White; Cistern, "Ideal Standard Concealea 3" or equal and approved back to wall concealed cistern ; Product Reference S332667; Flush plate; "Ideal Standard Concealea" or equal and approved pneumatic flush, product reference S1082AA;					
A	generally	1	nr			
	Accessible WC Set					
	Accessible WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.301; "Armitage Shanks or equal and approved Doc M Contour 21+ Back to Wall Pack" ; Product Code S0683					
B	generally	3	nr			
	Accessible Shower Set					
	Accessible Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.312; "Armitage Shanks Concept Freedom pack (Chrome) complete, Product Reference S6407 AA					
C	generally	2	nr			
	Floor Drains					
	Floor Drains; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.312. Manufacturer: Contractors Choice Submit Proposal. Product reference: Shower floor gullies. Circular pattern, stainless steel, easi clean type. suitable for vinyl anti slip floor sheeting including trapping ring. Gully body: Grade 304 Stainless steel. Complete with min 50 mm Stainles Steel removeable bell trap directly over 110 OD outflow pipework to C/S Engineers drawings & specifications. Grating: stainless steel. Fit vertically accessible stainless steel bell trap below gulley and before connection to outfall pipework to prevent odours. all as per Architects specification					
D	generally	2	nr			
E	Extra for forming recessed shower tray in screed to falls	2	nr			

	Description	Qty	Unit	Rate	€	c
	Washbasin Set					
	Washbasin Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.335; "Ideal Standard Portman 21" 50cm washbasin, single tap hole with overflow; product reference S2311; Size 500mm wide x 420mm wide x 195mm deep. Material: Wash hand basin in white vitreous china to BS 3402. Colour, White; Tap; "Ideal Standard Ceraline" or equal and approved chrome mixerer tap; Product Reference BC186AA; Trap, Ideal Standard or equal and approved bottle trap, product reference S8900; Waste, "Ideal Standard" or equal and approved chrome waste; Product Reference 27057000A; Valves.Ideal Standard or equal and approved thermostatic mixing valve, product reference A5900; Accessories: "Ideal Standard; or equal and approved wall mounting kit, product reference E0157; sealing joint between basin and wall with mildew resistant silicone					
A	overall size 500mm wide x 420mm wide x 195mm deep	4	nr			
	Washbasin Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.335; "Ideal Standard Portman 21" 50cm washbasin, single tap hole with overflow; product reference S2157; Size 400mm wide x 365mm wide x 175mm deep. Material: Wash hand basin in white vitreous china to BS 3402. Colour, White; Tap; "Ideal Standard Ceraline" or equal and approved chrome mixerer tap; Product Reference BC186AA; Trap, Ideal Standard or equal and approved bottle trap, product reference S8900; Waste, "Ideal Standard" or equal and approved chrome waste; Product Reference 27057000A; Valves.Ideal Standard or equal and approved thermostatic mixing valve, product reference A5900; Accessories: "Ideal Standard; or equal and approved wall mounting kit, product reference E0157; sealing joint between basin and wall with mildew resistant silicone					
B	overall size 400mm wide x 365mm wide x 175mm deep	8	nr			
	Shower Set					
	Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.375A; "Ideal Standard Simplicity" or equal and approved ABS capped plastic rectangular shower tray, Product Reference L509401; Size 1210mm x 810mm x45mm; "Ideal Standard Ceratherm" or equal and approved chrome mixer; product reference A7202AA; "Grohe Tempesta 110" or equal and approved chrome shower hose and rail, product reference 27598003					
C	overall size 1210 x 810mm	1	nr			

	Description	Qty	Unit	Rate	€	c
	Integrated Sink					
	Integrated Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.332; Bespoke polished stainless steel sink; Size 1000mm x 400mm x 150mm; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays, Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
A	overall size 860 x 480mm	9	nr			
	Accessories					
	Toilet Roll Holders					
	Toilet Roll Holders; "Ideal Standard IOM" or equal and approved chrome toilet roll holder; Product Reference A9132AA					
B	generally	1	nr			
	Toilet Roll Dispenser					
	Toilet Roll Dispenser; "Dolphin" or equal and approved stainless steel toilet roll dispenser; Product Reference BC925					
C	generally	8	nr			
	Soap Dispenser					
	Soap Dispenser; "Dolphin" or equal and approved stainless steel toilet roll dispenser; Product Reference BC600; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.458					
D	generally	13	nr			
	Hand Dryers					
	Hand Dryer; "Dolphin" or equal and approved stainless steel hand dryers; Product Reference BC2008; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.472					
E	generally	13	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Mirrors					
	Float glass mirror, silvered to give maximum reflection and free from tarnishing, discoloration, scratches and other defects; size - 500mm wide x 800mm high; thickness - 6 mm; lead foil or aluminium backing; 6mm polished bevel edge treatment; fixed with double sided self-adhesive pades at 400mm centres; all as per Architects specification clause N10/1 (e)					
A	1617mm wide x 1642mm high x 6mm thick (Room G.15)	1	nr			
B	2529mm wide x 1650mm high x 6mm thick (Room G.16)	1	nr			
C	300mm wide x 750mm high x 6mm thick (Room G.18)	1	nr			
D	600mm wide x 1500mm high x 6mm thick (Room G.18)	1	nr			
E	1550mm wide x 1542mm high x 6mm thick (Room 1.07)	1	nr			
F	1536mm wide x 1542mm high x 6mm thick (Room 1.07)	1	nr			
G	300mm wide x 750mm high x 6mm thick (Room 1.09)	1	nr			
H	1507mm wide x 1802mm high x 6mm thick (Room 1.10)	1	nr			
J	1582mm wide x 1542mm high x 6mm thick (Room 1.12)	1	nr			
K	1595mm wide x 1542mm high x 6mm thick (Room 1.12)	1	nr			
L	1561mm wide x 1542mm high x 6mm thick (Room 2.05)	1	nr			
M	1585mm wide x 1550mm high x 6mm thick (Room 2.05)	1	nr			
N	1588mm wide x 1542mm high x 6mm thick (Room 2.06)	1	nr			
P	1589mm wide x 1542mm high x 6mm thick (Room 2.06)	1	nr			
Q	395mm wide x 750mm high x 6mm thick (Room 3.04)	1	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
R	Testing		Item			
S	Surveys		Item			
T	Samples		Item			
U	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/19/1					
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Page No. Conv/19/5					
Page No. Conv/19/6					
(74) SANITARYWARE & HYGIENE FITTINGS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(73) CULINARY FITTINGS					
	(73) CULINARY FITTINGS					
A	This element of the work has been measured from Architects Drawings 429		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	Fittings					
	Fittings, Equipment and Furniture					
	Fitted Units to Kitchens; manufacturer to Contractors choice; 18mm high pressure laminate MDF carcass. 18mm HPL MDF door. 18mm HPL MDF drawer front. 38mm high pressure laminate worktop. 120mm stainless steel finger pull handle. adjustable shelf supports. soft close cabinet hinge. powder coated steel drawer runners and sides. adjustable plinth feet. stainless sleet clad MDF plinth panel. framing - 44x50mm softwood. led channel light. painted hardwood packer to form. inclusive of base units and kick board; wall units, pelmet and coving. Inclusive of all doors, drawers, shelving, ironmongery, side panels, carcassing, plinths, legs, sealing etc. complete and allowing for all required grounds, fixings, cutouts for services, sinks wastes etc.. Dimensions: as shown on Architects Drawings. All as per Architects Drawings and Architect's specification N10 & N11					
F	Tiling measured under Internal Wall Finishes Element		Note			
	G-05 Office - Per Drawing 452					
G	Countertop 750mm wide x 2850mm long	1	No			
H	Countertop 750mm wide x 3100mm long	1	No			
	G-09 Laundary Room - Per Drawing 429					
J	Countertop 575mm wide x 2470mm long	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Countertop 600mm wide x 2395mm long 38mm high pressure laminate worktop with internal steel supports.	1	No			
B	Full Height Storage Unit 600mm deep x 580mm wide x 2300mm high	2	No			
	G-13 & 14 Child Play & Adult Lounge - per drawing 431					
C	Base Unit 600mm wide x 1700mm long with 3 no enclosed cabinets under (850mm high)	1	No			
D	Base Unit 600mm wide x 1700mm long with 3 no enclosed cabinets under (750mm high)	1	No			
E	Extra over for 50mm Stainless Steel Worktop on Plywood Base with 50mm upstand to back and 50mm overhang to front, incorporating integrated stainless steel sink and drainer all per Architect's Drawings & Spec. Include for all necessary waste traps etc. complete	2	No			
	3-07 Therapeutic Facility - per drawing 434					
F	Base Unit 600mm wide x 7000mm long with 11 no enclosed cabinets under	1	No			
G	Extra over for all necessary cutting / fitting around box-out to SVP	1	No			
	3-06 Demonstration Kitchen - per drawing 447, 544 & 545					
H	Base Unit 600mm wide x 2896mm long with 1 no enclosed cabinets under	1	No			
J	Extra over for 50mm Stainless Steel Worktop on Plywood Base with 50mm upstand to back and 50mm overhang to front, all per Architect's Drawings & Spec.	1	No			
K	Base Unit 600mm wide x 3000mm long with 1 no enclosed cabinets under	1	No			
L	Extra over for 50mm Stainless Steel Worktop on Plywood Base with 50mm upstand to back and 50mm overhang to front, incorporating integrated stainless steel sink and drainer all per Architect's Drawings & Spec. Include for all necessary waste traps etc. complete	1	No			
M	Extra over for Cabinet for Integrated Dishwasher	1	No			
N	Full Height Storage Unit 600mm deep x 600mm wide x 2280mm high	1	No			
P	Full Height Storage Unit 600mm deep x 300mm wide x 2280mm high	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Wall Unit 350mm deep x 800mm wide x 750mm high	1	No			
B	Wall Unit 350mm deep x 600mm wide x 750mm high	2	No			
C	Island Unit 1000mm wide x 13000mm long with 2 Sets of 4 drawers and 2 sets of 2 drawer units under	1	No			
D	Extra over for 50mm Stainless Steel Worktop on Plywood Base with 50mm overhang to edge, all per Architect's Drawings & Spec.	1	No			
	1-11 Kitchenette - per drawing 449 & 543					
E	Base Unit 600mm wide x 3000mm long with 1 no enclosed cabinets under	1	No			
F	Extra over for Cabinet for Integrated Dishwasher	1	No			
G	Extra over for Cabinet for Integrated Fridge	1	No			
H	Wall Unit 350mm deep x 3000mm wide x 750mm high (incorporating 5no storage cabinets)	1	No			
	Apartment Type D - per drawing 498 & 543					
J	Base Unit 600mm wide x 3019mm long with 2 no enclosed cabinets and 1 Set of Drawers under	1	No			
K	Extra over for Cabinet for Integrated Washing Machine	1	No			
L	Extra over for Cabinet for Integrated Fridge	1	No			
M	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	1	No			
	Apartment Type E - per drawing 498 & 543					
N	L shaped Base Unit 600mm wide x 4054mm long with 2 no enclosed cabinets and 1 Set of Drawers under	1	No			
P	Extra over for Cabinet for Integrated Washing Machine	1	No			
Q	Extra over for Cabinet for Integrated Fridge	1	No			
R	L shaped Wall Unit 350mm deep x 3135mm wide x 750mm high (incorporating 5no storage cabinets)	1	No			
	Apartment Type F - per drawing 498 & 543					
S	Base Unit 600mm wide x 2720mm long with 1 no enclosed cabinets and 1 Set of Drawers under	1	No			
T	Extra over for Cabinet for Integrated Washing Machine	1	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Extra over for Cabinet for Integrated Fridge	1	No			
B	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	1	No			
C	Full Height Storage Unit 600mm deep x 590mm wide x 2500mm high	1	No			
	Apartment Type G - per drawing 499 & 543					
D	Base Unit 600mm wide x 2729mm long with 1 no enclosed cabinets and 1 Set of Drawers under	1	No			
E	Extra over for Cabinet for Integrated Washing Machine	1	No			
F	Extra over for Cabinet for Integrated Fridge	1	No			
G	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	1	No			
H	Full Height Storage Unit 600mm deep x 590mm wide x 2500mm high	1	No			
	Apartment Type H - per drawing 499 & 543					
J	L shaped Base Unit 600mm wide x 3620mm long with 1no enclosed cabinets and 1 Set of Drawers under	1	No			
K	Extra over for Cabinet for Integrated Washing Machine	1	No			
L	Extra over for Cabinet for Integrated Fridge	1	No			
M	L shaped Wall Unit 350mm deep x 2750mm wide x 750mm high (incorporating 3no storage cabinets)	1	No			
N	Wall Unit 350mm deep x 600mm wide x 750mm high (incorporating 1no storage cabinet)	1	No			
	Extractor Hood					
P	Supply and fit Bosch Series 4 or equivalent wall mounted cooker hood 60cm in stainless steel (code DWB65CC30B) as per MOMA Services Engineers Mechanical Specification and Schedule. Include for all necessary wiring, etc complete.	5	no			
Q	Supply and fit Bosch Series 4 or equivalent wall mounted cooker hood 90cm in stainless steel (code DWB65CC30B) as per MOMA Services Engineers Mechanical Specification and Schedule. Include for all necessary wiring, etc complete.	1	no			
R	Standard 150mm diameter duct from cooker hood, Include for all necessary fittings, bend, brackets etc complete.	40	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Core existing rendered masonary external wall approx. 500mm thick for 150mm vent duct. Include for all necessary sealing around duct, firestopping, fire collar, etc. complete.	6	no			
B	Ditto Internal Plastered Masonary wall approx. 300mm thick, ditto	2	no			
C	Suitable stainless steel vent covers fitted to extenal face of rendered masonary wall. Include for insect mesh etc complete.	6	no			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. Conv/20/5					
(73) CULINARY FITTINGS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	(76) STORAGE, SCREENING FITTINGS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 430, 515,		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
F	Contractor rates to include Fire retardant impregnation treatment: ECO F grade (Euroclass B1 s2d0) to all Veneered Panels all as per Archiect's Specification N10		Item			
	G-04 Reception Room					
	Reception Desk					
	Reception Desk complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. 25 X 125mm solid oak edge to back and sides of seat. SW framing to seat. Fabric Upholstered Foam Seat Formed on Ply Base. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. Concealed Soos sprung hinges to Hatch. 20 X 30 hardwood battens. Include for Full height HW Veneered trunking for M& E services, decoration, ironmongery etc. complete, all per Architect's Drawing 430 & 515 to Specification Clause N10-115					
G	L shaped on Plan approx 2,100mm + 4,000mm long x 900mm wide x Vary height 750mm / 1050mm	1	No.			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Wall Panelling complete. 18mm lipped and over Hardwood Panelling with and inclding softwood framing , fixed to existing rendered masonary wall, include for necessary fixings, decoration etc complete all per Architect's Drawing 430 and Specification					
A	Paneling to Wall > 300mm wide	11	m2			
B	Ditto Forming Box out from Wall > 300mm wide	10	m2			
C	Ditto < 300mm wide	24	m			
	Extra over for					
D	Incorporating 18mm lipped and veneered hardwood open shelving, 12 now rows, 755mm wide x 284mm deep. including all necessary fixings etc. complete.		Item			
	G-13 & 14 Child Play & Adult Lounge					
	Storage Units					
	Storage Units complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. 20 X 30 hardwood battens. Include for all necessary framing to back of units, decoration, ironmongery etc. complete, all per Architect's Drawing 431 & 517 to Specification Clause N10					
E	Full height storage units with double doors overall 1050mm wide x 425mm deep x 2400mm high	3	No			
F	Full height storage units with single door overall 700mm wide x 425mm deep x 2400mm high	2	No			
	Matching Wall Panelling complete. 18mm lipped and over Hardwood Panelling with and inclding softwood framing , fixed to existing rendered masonary wall, include for necessary fixings, decoration etc complete all per Architect's Drawing 431 and Specification					
G	Paneling to Wall > 300mm wide	38	m2			
H	Ditto Forming Box out from Wall > 300mm wide	29	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Ditto < 300mm wide	5	m			
	Forming Matching Bulkhead with 20 x 30mm battens, Include for all necessary framing, skimmed plasterboard to soffit, etc. complete all as per Architect's drawing 517					
B	620mm x 650mm high	13	m			
C	650mm high over wall panelling	27	m			
	1-05 Teenagers Room					
	Storage Units					
	Storage Units complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. 20 X 30 hardwood battens. Include for all necessary framing to back of units, decoration, ironmongery etc. complete, all per Architect's Drawing 432 & 518 to Specification Clause N10					
D	Upper storage units with double doors overall 1424mm wide x 445mm deep x 1775mm high	1	No			
E	Lower storage units with double doors overall 1424mm wide x 445mm deep x 625mm high	2	No			
	Matching Wall Panelling complete. 18mm lipped and over Hardwood Panelling with and inclding softwood framing , fixed to existing rendered masonary wall, include for necessary fixings, decoration etc complete all per Architect's Drawing 432 and Specification					
F	Paneling to Wall > 300mm wide	13	m2			
G	Ditto Forming Box out from Wall > 300mm wide	3	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	1-08 & 1.10 Staff Bedrooms					
	Wardrobes					
	Wardrodes complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. 20 X 30 hardwood battens. Include for all necessary framing to back of units, stainless steel hanging rails, shelving, decoration, ironmongery etc. complete, all per Architect's Drawing 438 to Specification Clause N10					
A	Wardrobe with double doors overall 1200mm wide x 450mm deep x 2200mm high	3	No			
B	Wardrobe with double doors overall 800mm wide x 700mm deep x 2200mm high	1	No			
	G-22 Visitor Room					
	Wall Panelling complete. 18mm lipped and over Hardwood Panelling with and inclding softwood framing , fixed to existing rendered masonary wall, include for necessary fixings, decoration etc complete all per Architect's Drawing 450 and Specification					
C	Paneling to Wall > 300mm wide	3	m2			
D	Ditto Forming Box out from Wall > 300mm wide	11	m2			
E	Ditto < 300mm wide	10	m			
	Extra over for					
F	Incorporating 18mm lipped and veneered hardwood open shelving, 12 now rows, 755mm wide x 320mm deep. including all necessary fixings etc. complete.		Item			

	Description	Qty	Unit	Rate	€	c
	SIGNAGE					
	Supply and fixing of all signage. Refer to Architects Drawing 710 and Specification, for signage sizes, graphics, font, lettering, images and colours. Include for all necessary fizings grounds etc. complete					
A	Locations of signage per Architects Signage Plan 700 to 703		Note			
	DVR Ground Floor Signs					
B	Type 1 - Room Labels	13	No			
C	Type 2 - Toilet Block Graphics	5	No			
D	Type 3 - Information Panel for Whole Building	1	No			
E	Type 4 - Information Panel Outside Lift	1	No			
F	Type 5 - Apartment Numbers (Above Doors)	3	No			
G	Type 6 - Front Door Sign	1	No			
H	Type 7 - Induction Loop	1	No			
J	Type 8 - Reuge Areas	1	No			
K	Type 9 - Apartment Numbers (On Doors)	1	No			
	DVR 1st Floor Signs					
L	Type 1 - Room Labels	9	No			
M	Type 2 - Toilet Block Graphics	6	No			
N	Type 4 - Information Panel Outside Lift	1	No			
P	Type 5 - Apartment Numbers (Above Doors)	4	No			
Q	Type 8 - Reuge Areas	2	No			
	DVR 2nd Floor Signs					
R	Type 2 - Toilet Block Graphics	6	No			
S	Type 4 - Information Panel Outside Lift	1	No			
T	Type 5 - Apartment Numbers (Above Doors)	4	No			
U	Type 8 - Reuge Areas	2	No			
V	Type 9 - Apartment Numbers (On Doors)	5	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	DVR 3rd Floor Signs					
A	Type 1 - Room Labels	5	No			
B	Type 2 - Toilet Block Graphics	1	No			
C	Type 4 - Information Panel Outside Lift	1	No			
D	Type 5 - Apartment Numbers (Above Doors)	4	No			
E	Type 8 - Reuge Areas	1	No			
	Fire Blankets					
F	Supply and fix to stud wall Fire Blanket to S.I.137, include for all necessary fittings, grounds to wall, etc complete,all to the satisfaction of the Architect.	9	No.			
	Shelving all as per Architect's Architects Specification					
	Store shelving all as per Architect's Drawings, include for all necessary, grounds, fixings etc. complete					
G	2 rows of solid Timber Shelving 400mm wide x 1000mm long, including all necessary brackets etc. complete.	5	No.			
	Blinds					
	Blinds To Apartments					
	Manually operated roller blinds. By Silent Gliss Ltd or equivalent. Roller Blind - Chain Operated - Silent Gliss SG 4910 (Dimout) or equivalent. To BS EN 13120. Headrail. Material: Anodized aluminium. Colour: White. Blinds Material: Trevira CS flame retardant. Colour: Allow for full colour range. Tube. Material: White powder coated aluminium. Diameter: 41mm. Operation: Chain operated, left or right hand operation. Operating effort: Class 1. Testing: Class 2. Mechanism endurance: 5000 cycles. Execution: Installing blinds.. Bottom bar material/ Colour: Maximum weight: 3 kg. Barrel diameter: 41 mm. Barrel: Anodized aluminium. Material: Steel with plastic bracket covers. Size: 46 x 43 mm. Material: Stainless steel. Fire performance. Rating: B-s 1 d0 (EN 13501-1), complete all as per Architect's specification N20/240					
	To suit ope sizes: (all to be measured on site and confirm final dimensions)					
H	Window size to suit structural ope 1360mm wide x 2000mm high	2	No			
J	Window size to suit structural ope 1000mm wide x 1800mm high	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Window size to suit structural ope 600mm wide x 1400mm high	1	No			
B	Window size to suit structural ope 1360mm wide x 1500mm high	5	No			
C	Window size to suit structural ope 650mm wide x 1500mm high	14	No			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. Conv/21/1					
Page No. Conv/21/2					
Page No. Conv/21/3					
Page No. Conv/21/4					
Page No. Conv/21/5					
Page No. Conv/21/6					
Page No. Conv/21/7					
(76) STORAGE, SCREENING FITTINGS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
DEMOLITIONS & ALTERATIONS	Conv/1/33				
(19) SUBSTRUCTURE	Conv/2/22				
(21) EXTERNAL WALLS	Conv/3/10				
(22) INTERNAL WALLS	Conv/4/5				
(27 & 28) ROOF & FRAME	Conv/5/8				
(31) EXTERNAL WALL COMPLETIONS	Conv/6/15				
(32) INTERNAL WALL COMPLETIONS	Conv/7/16				
(33) & (34) FLOOR & STAIR COMPLETIONS	Conv/8/4				
(37) ROOF COMPLETIONS	Conv/9/7				
(41) EXTERNAL WALL FINISHES	Conv/10/10				
(42) WALL FINISHES INTERNALLY	Conv/11/17				
(43) FLOOR FINISHES	Conv/12/9				
(35) & (45) SUSPENDED CEILINGS & FINISHES	Conv/13/7				
(47) ROOF FINISHES	Conv/14/13				
EL (59) MECHANICAL INSTALLATION	Conv/15/29				
(69) ELECTRICAL INSTALLATION	Conv/16/36				
(66) TRANSPORT INSTALLATION	Conv/17/6				
EL (--) BUILDERS WORK	Conv/18/7				
(74) SANITARYWARE & HYGIENE FITTINGS	Conv/19/7				
(73) CULINARY FITTINGS	Conv/20/6				
(76) STORAGE, SCREENING FITTINGS	Conv/21/8				

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
TOTAL AMOUNT CARRIED TO MAIN SUMMARY					
Note: This Bill of Quantities contains pages numbered Conv/1/1 - Conv/21/8 . The Sub-Contractor should ensure that...					

EAST BLOCK

DOMESTIC VIOLENCE REFUGE (DVR)

	Description	Qty	Unit	Rate	€	c
	EL (19) SUBSTRUCTURE					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
F	For details of ground conditions refer to Site Investigation Report included with Tender Documentation.		Note			
G	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
H	The Contractor is advised that all works within the Exclusion Zones around Protect Trees on site must be done by hand. No mechanical digging etc. is permitted within these zones. Contractor is to include here for any additional costs carring out any of the works listed below within the Exclusion Zones. Where applicable Exclusions Zones are indicated on Architect's Drawings		Item			
J	All the works are to be carried out in such a manner as to ensure the safety of the works adjoining properties, the public and contractors rates shall include for all necessary precautions.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
	EXCAVATION & EARTHWORK					
	Starting Levels					
	The starting level for excavation measurement is the existing ground level					
	Excavation					
	Foundation trenches (incl attached pads)					
A	Depth <2.00m	271	m3			
B	Additional excavation below underside of pad foundations to good bearing strata	316	m3			
C	Depth 2.00 - 4.00m		m3			
	Isolated Pits (Lift Pit & Staircore)					
D	Depth <2.00m	89	m3			
E	Additional excavation below underside of isolated pits to good bearing strata	80	m3			
	Extra on excavation items for:					
F	Excavating around existing services, parallel / next / alongside excavations	30	m			
G	Excavating around existing services, crossing excavations; ESB	5	No			
H	Excavating around existing services, crossing excavations; Eircom	5	No			
J	Excavating around existing services, crossing excavations; Watermain	5	No			
K	Excavating around existing services, crossing excavations; GAS	5	No			
L	Excavating around existing services, crossing excavations; Foul	5	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Excavating around existing services, crossing excavations; Surface	5	No			
B	Next to existing buildings;	15	m			
	Working space excavation; backfillng with crushed stone, Clause 804 specification; deposited in layers 150mm thickness; compacted by mechanical means					
	Foundation trenches					
C	Depth <2.00m	478	m2			
	Isolated Pits (Lift Pit & Staircore)					
D	Depth <2.00m	74	m2			
	Disposal					
	Water					
E	Surface water	1	Item			
F	Ground water	1	Item			
	Excavated material; Unsuitable					
G	Off site to a licensed tip	756	m3			
	Filling					
	Imported material; granular fill materials; compacting in 225mm thick layers					
	To excavations					
H	> 250mm thick T2 Structural Fill to Annex E of SR 21	134	m3			
	To make up levels					
J	< 250mm thick T1 Permeable Hardcore to Annex E of SR 21	73	m3			
K	> 250mm thick T2 Structural Fill to Annex E of SR 21	73	m3			
	Soft Spots					
L	> 250mm thick T2 Structural Fill to Annex E of SR 21	10	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
A	generally	1	Item			
	IN-SITU CONCRETE					
	Reinforced poured concrete; Grade C12/15					
B	Blinding	17	m3			
C	Filling under foundations	396	m3			
D	Ditto soft spots	15	m3			
	Reinforced poured concrete; Grade C32/40, Exposure Class XC2/XC4 (External)					
E	Foundation trenches	87	m3			
	Beds					
F	>150mm thick: reinforced	109	m3			
	Walls					
G	>150mm thick: reinforced	9	m3			
	Columns					
H	<0.10m2 cross sectional area	2	m3			
	Coulumn casings					
J	<0.10m2 cross sectional area	1	m3			
	Upstands and the like					
K	Cross sectional area < 0.10m2	1	m3			
	Projecting nib					
L	Cross sectional area < 0.10m2	1	m3			
	Screed; laid to falls and crossfalls					
M	>150mm thick: non structural	24	m3			
N	Screed infill to slab recesses; <100mm high; to falls	7	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	EO for 50mm diameter weep holes at 1m c/c to base of in-situ walls	31	no			
	CONCRETE WORK: Sundries					
	Isolation Joints (IJ)					
	Perimeter of concrete slab isolation joint; underslab insulation; type: agrement certified for use under ground bearing slabs; Thickness 20 mm; Compressive strength (minimum) 140 kPa at 10% compression; Thermal conductivity (maximum) 0.022 W/(mK);30mm thickal to Architects specification clause E20/215; form 20 x 12mm surface groove in in-situ concrete floor slab, to be filled with two part polysulphide seal; forming joint between floor and wall all in accordance with the Works Requirements and Architects specification					
B	Horizontal; to external walls 150-300mm	90	m			
C	Horizontal; around columns 150-300mmmm	19	m			
	Designed joints; form 12mm wide expansion joint in concrete					
D	5mm thick x 20mm deep saw cut joint, filled with polyethylene joint filler, 12 x 20mm deep hot poured mastic asphalt joint sealer and necessary masking tape	48	m			
	Surface finishes					
E	Powerfloat / brush finish in-situ concrete beds / slabs / screeds	696	m2			
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
F	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	4.58	tonne			
	Steel fabric reinforcement to engineers specification					
	Fabric					
	Reference A252; 3.95 kg/m2, 400mm laps between all adjoining sheets to Engineers specification					
G	Horizontal; GF slab	648	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Reference A393; 6.16 kg/m2, 400mm laps between all adjoining sheets to Engineers specification					
A	Horizontal; bases	48	m2			
B	Horizontal; strip foundations	88	m2			
	Reference D46; wrapping columns					
C	Vertical; wrapping columns	3	m2			
	FORMWORK					
	Wrot formwork as described to Engineer's specification to : -					
	Sides of foundations					
D	height <250mm	15	m			
E	Height 250 - 500mm	190	m			
F	height >500mm	83	m2			
	Edges of beds					
G	height <250mm	90	m			
H	height 250 - 500mm		m			
J	height >500mm	29	m2			
	Form recess in slab					
K	1200 x 1200mm on plan; <250mm high	3	no			
L	2000 x 1500mm on plan; <250mm high	1	no			
M	300 x 300 x 300mm lift pit sump; including outlet	1	nr			
	Thresholds					
	Height < or = 250mm					
N	Thresholds	7	m			
	Sides of upstands and steps in top surfaces					
P	height <250	10	m			
Q	Form chamfer 25mm x 25mm to upstands	10	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Kickers to:-					
A	Walls	31	m			
	Walls					
B	Vertical < 4.00m high	68	m2			
	Edges of openings					
	Walls					
C	Area of opening not exceeding 1.00m2	1	no			
D	Area of opening 1.00 - 5.00m2	1	no			
	Suspended slabs					
E	Area of opening not exceeding 1.00m2	3	no			
F	Area of opening 1.00 - 5.00m2	3	no			
	Columns (Stub)					
	Isolated					
G	rectangular	15	m2			
	Column casing (Stub)					
	Isolated					
H	rectangular	3	m2			
	Tie between new foundation / bases and existing foundation / bases					
J	2No 20mm diameter x 800mm long steel dowel bars at 400mm centres with one side fully debonded and cast into new foundation / base and other side chemical anchored into side of existing foundation / base approx. 400mm deep	9	No			
K	EO breaking out existing foundation / base locally to accommodate proposed foundation / base & dispose off site	4	m			
	Sundries					
L	Allow for casting in 100mm diameter sleeves through 250mm thick concrete walls for incoming services	2	no			
M	Allow for casting in 150mm diameter sleeves through 200mm thick concrete walls for incoming services	2	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Allow for casting in 225mm diameter sleeves through 250mm thick concrete walls for incoming services	2	no			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Walls					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
B	100mm thick	7	m2			
C	215mm thick	42	m2			
D	550mm thick	57	m2			
	Labours					
	On blockwork					
E	generally		Item			
	Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13.5N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
F	100mm thick	22	m2			
G	215mm thick	33	m2			
	Labours					
	On blockwork					
H	generally		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Design Joints					
	Joints with Reinforced Concrete Walls / Columns					
	Provide and install flat stainless steel tie, with debonding sleeve @ 450mm centres verticallly & fixed to reinforced concrete wall / column using 8mm stainless steel bolt at 450mm centres, loading capacity 1.20kN/m height. Include also for 10mm thick closed cell polyethylene sealed with mastic pointing both sides, corner chamfer / rebate to Architect's detail and all as per Engineers Drawings					
A	100mm blockwork to concrete walls / columns	5	m			
B	100mm blockwork to existing masonary wall	1	m			
C	215mm blockwork to concrete walls / columns	25	m			
D	215mm blockwork to existing masonary wall	1	m			
E	550mm blockwork to concrete walls	2	m			
F	550mm blockwork to existing masonary wall	3	m			
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Forming cavities					
	Partial fill cavity insulation to external cavity wall; 230mm wide cavity; WALL TIES: Double triangle type or other equal or equivalent stainless steel wall ties complying with IS EN 845-1:2013 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings; INSULATION: 180mm thick insulation PIR board, product to have BBA Certification, and to be certified to BS EN ISO 9001 Quality Management System, and to BS EN ISO 14001 Environmental Management System. Manufactured to EN 13165, to achieve a U value of 0.18W/m2K for the wall element, all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause					
	Between new walls					
G	180mm wide	19	m2			
	At thresholds					
H	30mm wide x 210mm high	7	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Thermal bridge mounting block, to structure to support door frame and threshold.					
A	120mm high x 75mm wide	7	m			
	Insulation					
	Xtratherm Thin-R XT/UF Under Floor Insulation. Maximum Conductivity of 0.022 W/mK or better as required to meet the performance requirements. Compressive strength (at 10% compression): min. 140kPa in areas as appropriate to accommodate the loading requirements. All in accordance with the Works Requirements and Architects specification P10					
	Insulation to cavity below GL Thermal					
B	150mm thick horizontal	324	m2			
C	Ditto; fixed vertically behind R.C. lift pit / staircore walls	34	m2			
	Roofing, Cladding and Waterproofing					
	DPC / Cavity Trays					
	Gas resistant DPCs / Cavity tray; Product to have Agrement Certification, and to meet the following performance characteristics; Material Type: Virgin blend LDPE; Thickness: 500 microns; Radon Permeability: 7.9 x 10-12 m2/s; Tensile strength >350N/50mm; Weight: 460 g/m2; Tear Resistance >200N; MVTR : <0.3 g/m2/day; all in accordance with the Works Requirements and Architects specification; Seal at joints to architects specification with 150mm laps fully bonded with adhesive recommended by dpc manufacturer and sealed at joints with in accordance with the manufacturer's written instructions					
D	Width < 225mm	251	m			
E	Width > 225mm	108	m2			
F	Extra over for sealed tape in fixing to blockwork	251	m			
	Waterbars					
	Adcor 550MI or equivalent per Engineers Specification					
G	Horizontal	31	m			
H	Vertical	10	m			
J	Angles	8	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Pipe					
A	Corrugated perforated hdpe pipe 100mm diameter or equivalent; wrapped with geotextile membrane; plastic tie and covered both ends with geotectile membrane; bebded in granular materials as per manufacturer instruction.	31	m			
	Waterproofing					
	Prepruffe Plus or equivalent per Engineers Specification; laying and laps in strict accordance with the manufacturers instructions					
	Horizontal					
B	> 300mm width; to blinding base	13	m2			
C	> 300mm width; to toe of base (top)	7	m2			
D	> 300mm width; extending min 1000mm width to lap with radon barrier	10	m2			
	Vertical					
E	> 300mm width; to edge of base	11	m2			
F	> 300mm width; to face of RC walls	15	m2			
	GCP Protection (or equivalent) on Preprufe 800PA (or equivalent) on Preprufe SC1 Primer (or equivalent)					
	Vertical					
G	> 300mm width; to edge of base	11	m2			
H	> 300mm width; to face of RC walls	15	m2			
	Sealing around Pipe Collars					
J	100mm diameter	1	No			
K	150mm diameter	1	No			
L	225mm diameter	1	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Radon Membrane					
	Loose laid polyethylene gas retardant damp proofing (radon barrier) laid on blinding (elsewher measured); Product to have Agrement Certification, and must fulfill the following performance requirements: Product to incorporate at least 4 layers, with lower outer layer of blown LDPE, a reinforcing layer, and upper layers;Thickness:.355 microns (effective thickness); Nominal Weight per unit area: 355 g/m2; Tensile Strength (N/50mm): Machine Direction - 480 ; Cross Direction - 450; Tear Resistance (N): machine Direction - 405 ; Cross Direction 425; Puncture Resistance (N) : 1130; Reinforcement: Multifilament Polyester129mm x 2mm; Reinforcement Decitex Value : 1100; all in accordance with the Works Requirements and Architects specification; Seal at joints to architects specification with 150mm laps with adhesive recommended by dpc manufacturernd sealed at joints with in accordance with the manufacturer's written instructions					
	Radon Barrier					
	Width > 300mm					
A	Horizontal	324	m2			
B	Vertical	108	m2			
	"Monarflex radon resisting membrane RMB 400" top hat units with clips; fully bonded and sealed at joints in accordance with the manufacturer's printed instructions and Architects specifications 45-65-50/325.: Preformed 0.5mm min HDPE top hat to all single penetrations and all other penetrations use two component bitumen and modified silicone polymer liquid radon sealant with denisty 0.93+/-0.02 g/vm3. (For visual appearance product ref Icopal Necoflex Easi-Pour Liquid Radon Sealant or equivalent)					
	Collars around pipes, standards and the like					
	Diameter					
C	< or = 50mm	25	nr			
D	< or = 110mm	25	nr			
E	< or = 150mm	25	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Non perforated gas collection pipes; Manufacturer:Contractor to submit proposals; Product to have Agrement Certification, for proposed purpose.; Material: High-density polyethylene (HDPE), non perforated with ring seals joints to BS EN 681-1; Outside diameter size: 110 mm. all in accordance with the Works Requirements and Architects specification					
	Pipes					
	110mm diameter					
A	In trenches	32	m			
	Extra over pipes on which they occur for					
B	Bends; 87.5 degrees	8	nr			
C	Radon duct capping detail; at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm	12	nr			
	Plastic Depressurisation sumps; Manufacturer: Contractor to submit proposals; Product to have Agrement Certification, and must fulfill the following performance requirements: Material: Medium Density Polyethylene.; Diameter of the open base: 283.5 mm; Overall Depth: 149 mm; Short Term Creep Test: Mean deflection at 480N is 6.96mm; Compression Test Result: Mean deflection at 10,260N = 27.33mm; Ground level Termination: System capping detail, at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm; all in accordance with the Works Requirements and Architects specification					
	Chambers					
D	Sump & Sump Cap-Link	4	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Drainage Channels					
A	Type EHL.801 DRAINAGE CHANNEL 1. Stainless steel unobtrusive continuous brickslot drainage channel fixed flush to finish surface, for use against building facades as indicated on the Architectural Drawings. 2. Manufacturer: ACO Build (www.aco.co.uk), system or acceptable equivalent. a. Reference: ACO M200 0100 Brickslot Drainage Channel. 3. Drainage channels shall be to BS EN 1433. 4. The channels shall have a nominal size 100mm. 5. Finish: stainless steel. 6. Joints shall be sealed in accordance with the manufacturer's recommendations. 7. Cover grating shall be have a 20mm slotted offset drainage inlet. 8. Fixings shall be galvanised steel. 9. Loading grade shall be C250 medium duty. 10. Drainage channels shall include 200mm unions, end caps and gulley unit with mud bucket. Including all accessories as required per manufacturer's best practice installation - sumps, end caps etc. bedded in haunched concrete overal size 170 x 150mm high including all nessessary formork; all in accordance with the manufacturers instructions and Architects specification	12	m			
B	Extra; stop ends	12	No			
C	Extra; 90 degree bends	6	No			
D	Extra; intermediate outlet	6	No			
	<u>Service Ope Detail Through Blockwork Rising Wall</u>					
E	Form ope in 215mm thick rising blockwork for 1No 19mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	5	No			
F	Form ope in 215mm thick rising blockwork for 1No 50mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	10	No			
G	Form ope in 215mm thick rising blockwork for 1No 110mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	25	No			
H	Form ope in 550mm thick rising blockwork for 1No 150mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	15	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Sundries					
A	Labour and material in cutting / fitting around rigid insulation board for all underground services pipes		Item			
	Internal Drainage below ground					
	Excavating trenches for pipes not exceeding 250mm nominal size, disposing of surplus excavated material by removing from site					
	Excavations; filling in above beds or coverings with selected imported granular fill as specified					
B	average depth 500 - 1000mm	258	m			
	Beds and Surrounds; Pea Gravel					
	Beds					
C	400 x 150mm to 100mm diameter pipes	183	m			
D	450 x 150mm to 150mm diameter pipes	75	m			
	Surrounds					
E	400 x 250mm to 100mm diameter pipes	183	m			
F	450 x 300mm to 150mm diameter pipes	75	m			
	EO beds and surrounds; concrete grade C30/37					
	Beds					
G	400 x 150mm to 100mm diameter pipes	183	m			
H	450 x 150mm to 150mm diameter pipes	75	m			
	Surrounds					
J	400 x 250mm to 100mm diameter pipes	183	m			
K	450 x 300mm to 150mm diameter pipes	75	m			
	Pipework and Fittings					
	uPVC pipework and fittings to BS 4660 with flexible joints in the running length					
L	100mm nominal diameter	183	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over for					
A	90 deg bends / upstands	65	No			
B	Branches 100mm to 100mm	45	No			
C	Pop up; sealed; 40mm dia	30	No			
D	Pop up; sealed; 110mm dia	70	No			
E	150mm nominal diameter	75	m			
	Extra over for					
F	90 deg bends/upstands	15	No			
G	Sweeping bends	15	No			
H	Branches 150mm to 150mm	15	No			
	Disposal					
	Keeping the surface of the site and excavations free of					
J	Surface Water		Item			
K	Ground Water		Item			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
L	Testing	1	Item			
M	Surveys	1	Item			
N	Samples	1	Item			
P	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
Q	Testing	1	Item			
R	Surveys	1	Item			
S	Samples	1	Item			
T	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/1/1					
Page No. East/1/2					
Page No. East/1/3					
Page No. East/1/4					
Page No. East/1/5					
Page No. East/1/6					
Page No. East/1/7					
Page No. East/1/8					
Page No. East/1/9					
Page No. East/1/10					
Page No. East/1/11					
Page No. East/1/12					
Page No. East/1/13					
Page No. East/1/14					
Page No. East/1/15					
Page No. East/1/16					
EL (19) SUBSTRUCTURE **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (22) INTERNAL WALLS					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	IN-SITU CONCRETE					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	Reinforced poured concrete; Grade C30/37, Exposure Class XC2/XC4 (External)					
	Walls					
G	>150mm thick: reinforced	95	m3			
	Projecting nib					
H	Cross sectional area < 0.10m2	1	m3			
J	EO for 50mm diameter weep holes at 1m c/c to base of in-situ walls	27	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
A	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	6.92	tonne			
	FORMWORK					
	Wrot formwork as described to Engineer's specification to : -					
	Projecting nib to side of retaining walls					
B	200mm wide x 250mm high	15	m			
	Kickers to:-					
C	Walls	124	m			
	Walls					
D	Vertical > 4.00m high	758	m2			
	Edges of openings					
	Walls					
E	Area of opening not exceeding 1.00m2	8	no			
F	Area of opening 1.00 - 5.00m2	12	no			
G	Area of opening 10.00 - 15.00m2	1	no			
	Sundries					
H	Allow for casting in 100mm diameter sleeves through 200 thick concrete walls for incoming services	8	no			
J	Allow for casting in 150mm diameter sleeves through 200mm thick concrete walls for incoming services	8	no			
	Waterbars					
	Adcor 550MI or equivalent per Engineers Specification					
K	Horizontal	124	m			
L	Vertical	99	m			
M	Angles	32	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Concrete Work					
	Precast Concrete					
	Precast Prestressed concrete; proprietary lintels; to be used in conjunction with 'Notes on Preparation and Load span tables'; standard stock pattern units; B.S. 1239; standard bar reinforcement as required; building in as work proceeds; bedding in gauged mortar (1:1:6); used strictly in accordance with manufacturers instructions, and per Engineer's Details					
	Lintels					
A	100 x 65mm	5	m			
B	215 x 65mm	39	m			
	Brickwork and Blockwork					
	Brickwork / Blockwork					
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification					
	Walls					
C	100mm thick	23	m2			
D	215mm thick	505	m2			
	Extra over for special bricks/blocks					
E	Reinforced concrete filled 215mm x 215mm U-block; horizontal; filled with and including Grade C30/10 concrete with and including (2no) T16 reinforcement bar, minimum 600mm laps; with and including single course of 215mm solid blockwork layed on top; as Engineers Drawings (2 rows of Band beams measured)	198	m			

	Description	Qty	Unit	Rate	€	c
	TYPE BLK.201 THERMAL BLOCKWORK; Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bond with neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
	215mm thick					
A	>300mm wide	20	m2			
B	Two courses of 215mm thermal blocks built into standard blockwork external walls as shown on Architect's Drawing 21202	20	m			
	Labours;					
C	On Blockwork Generally	1	Item			
	Bonding to Other Work					
D	Ancon PPB Debonded wall ties, having one end shot fixed to existing block wall, and other end built into 215mm blockwork wall at 450mm vertical centres, as the works proceed.	6	m			
E	215mm blockwork tied to reinforced concrete columns using 'Dovetail Slots' or similar at 225 vertical c/c and 450 horizontal as the works proceed.	114	m			
	Bedjoint Reinforcement					
F	Provide 3 courses of GBF 35 W60 SC brickforce (or equivalent) reinforcing to horizontal bed joints directly above ope. Extend minimum 750 beyond ope size, all per Engineer's Specification	198	m			
	Fire Stopping System;					
G	Allow for Design, supply and installation of Fire Stopping System all as before in;		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Approved proprietary linear firestop; include for sealing both sides with approved proprietary ablative coating in fire stopping at head of walls and all as per Architects Drawings and Specification					
	Provide and install complete approved compressible moisture resistant stone wool filler material between top of blockwork and underside of concrete slab having 60 minute fire rating to EN; 1987; include for pointing both sides in matching intumescent mastic per Architects Specification in;					
A	215mm wide	198	m			
	Secondary Steel To Internal Walls					
	Structural Steelwork					
B	Rates are to include for all labours in connection with the following work including all fittings		Note			
C	All elements of the structure designed by the contractor shall be submitted to the Structural Engineer for comment		Note			
D	The Contractor shall provide temporary bracing and shoring against lateral forces and all construction loads throughout the work. Design of temporary bracing and shoring to be submitted to the Structural Engineer for approval (refer to Engineers Drawings)		Note			
E	Rates for Structural Steel are to include for all site welding. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref 85/4/5 & 6		Note			
F	Rates for Structural Steel are to include for all site bolts. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref page 85/2/3		Note			
G	Provide for complying with the specification requirements for tests of materials; workmanship, tolerances and finished structures		Note			
	Builders Work Requirements					
	The Contractor must obtain in time all necessary information relating to the structural steel erection builders work to enable the works to be carried out without interruption. Any additional costs incurred by his failure to obtain this information will be at his own expense					
H	Setting out Structural Steel with Specialist Contractor	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Structural Steelwork					
	Notes:					
A	1. The Contractor is required to design, provide and fix all necessary fittings; caps; bases; hunches; gussets; end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces; bolts and associated fittings and connections which may be necessary to complete this section of the works. The Contractor is required to liaise and co-ordinate with other trades to provide and fix all such fixings as may be necessary for this installation		Note			
B	2. The Contractor will be required to carry out 100% testing on all site welding as detailed in the Structural Engineer's Civil & Structural Specification.		Note			
C	All steel to be grade s355 uno	1	Item			
D	All fabricated structural steelwork to be ce marked in conformance with new building regulations and construction product regulations	1	Item			
E	Structural steelwork to be minimum EXC2 execution class to BS EN ISO 12944-2	1	Item			
F	Structural steelwork to comply with national structural steelwork specification (NSSS) for building construction, 5th edition CE marking version	1	Item			
G	Steelwork contractor to provide the following: (i) factory production certificate. (ii) welding certificate. (iii). declaration of performance.	1	Item			
H	On site welding requires 100% visual inspection as well as a supplementary programme of non-destructive testing in accordance with the "national structural steelwork specification - 5th edition - Annex B - welds - extent of routine supplementary NDT.	1	Item			
J	All temporary works required to support or erect the structural steel are to be provided by main contractor / steel subcontractor	1	Item			
K	In some circumstances, elements of the steel structure may require to be errected & subsequently temporary removal to allow the erection of precast slabs or other internal works & such works are to be initiated in advance by the steel sub contractor.	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	All structural steel load bearing elements are to be fire rated with intumescent paint to fire safety consultants requirements. Note also where non load-bearing steel elements are attached to load-bearing elements the fire rating is to extend 500mm onto the non load-bearing element.	1	Item			
	The following steelwork to be Grade S355; in accordance with BS EN 10025-2 and the Structural Engineers Civil and Structural Specification; fabrication, surface preparation, priming at works and site erection and treatment to comply fully with all aspects of the structural steelwork specification; all as per Engineer's Performance Specification					
	Fabricated steelwork; welded fabrication bolted and welded site connections					
	The following in prefabricated steel framework including bolts, nuts and washers for steel connections shot blasted, shop primed and painted as per Engineers Specification and drawings including fittings; caps; bases; hunches; gussets; end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces and associated fittings					
	Structural Steel all hoisted and set in to position [Engineers drawing DR-S-02120 & 02121]					
	Lintel (L2)					
B	152 x 152 x 23 UC	0.53	tonne			
	Fittings					
C	Structural Steel Fittings	0.06	tonne			
	Bearing Pads built into blockwork all per Engineer's Drawings & Specification					
D	440x215mm deep (min.) mass concrete (C30/37 to I.S. EN 206-1 Table 7 and max aggregate size of 10mm) bearing pad	20	No			
E	2No. M16 grade 8.8 cast-in holding down bolts fixing steel to bearing pads (elsewhere measured)	20	No			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
F	Testing	1	Item			
G	Surveys	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Samples	1	Item			
B	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
C	Testing	1	Item			
D	Surveys	1	Item			
E	Samples	1	Item			
F	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/2/1					
Page No. East/2/2					
Page No. East/2/3					
Page No. East/2/4					
Page No. East/2/5					
Page No. East/2/6					
Page No. East/2/7					
Page No. East/2/8					
EL (22) INTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (23) FLOORS, GALLERIES					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	CONCRETE WORK					
	IN - SITU CONCRETE					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Slabs					
	> 150mm thick					
G	reinforced	224	m3			
	Upstands and the like					
H	Cross sectional area > 0.10m2	1	m3			

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Sundries					
	Designed joints					
	Expansion joints; formed joints including cast-in proprietary shear connectors; joint width 35mm c/w filler material; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete clause 2.5 & 3.1					
	Slabs					
A	width 150 - 300mm	146	m			
	Surface finishes					
	Powerfloating					
B	horizontal	839	m2			
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to BS 4449; Class B high yield (fy = 500N/mm2) capacity; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Works Requirements					
	Bar:Straight or bent					
C	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	20.74	tonne			
	CONCRETE WORK: Shear Stud Rails					
	FF Slab Stud Rails Ref.					
D	H10-190-2-350; 350mm long	27	No			
E	H10-190-3-500; 500mm long	12	No			
F	H10-190-4-650; 650mm long	25	No			
G	H10-190-5-800; 800mm long	17	No			
H	H10-190-7-1100; 1100mm long	5	No			
	SF Slab Stud Rails Ref.					
J	H10-190-2-350; 350mm long	31	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	H10-190-3-500; 500mm long	2	No			
B	H10-190-4-650; 650mm long	44	No			
C	H10-190-5-800; 800mm long	8	No			
D	H10-190-6-950; 950mm long	10	No			
	TF Slab Stud Rails Ref.					
E	H10-190-2-350; 350mm long	27	No			
F	H10-190-3-500; 500mm long	12	No			
G	H10-190-4-650; 650mm long	25	No			
H	H10-190-5-800; 800mm long	17	No			
J	H10-190-7-1100; 1100mm long	5	No			
	CONCRETE WORK: Formwork - [Type A Finish]					
	Plain Formwork - Type A Finish; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete					
	Edges of suspended slabs and landings					
	Height 250 - 500mm					
K	generally	273	m			
	Steps in soffits					
	Height < or = 250mm					
L	generally	25	m			
	Sides of upstands and steps in top surfaces					
M	height <250	15	m			
	Soffits of suspended slabs					
	Soffit height < or = 4.00m					
N	generally	839	m2			
	Edges of openings					
	Slabs					
P	area of opening < or = 1.00m2	10	nr			

	Description	Qty	Unit	Rate	€	c
A	area of opening 1.00 - 5.00m2	10	nr			
	Beams					
	Attached; rectangular					
B	generally	103	m2			
	Form recess in slab					
C	1200 x 1300mm on plan; <250mm high	16	no			
D	2500 x 2500mm on plan; <250mm high	2	no			
	FLOWFORGE GRATINGS AND FRAME					
	Structural steelwork; all steelwork to be Grade S355 unless noted otherwise and shall comply with the requirements of EN 10025:1993; all in strict accordance with the Engineers specification and drawings					
	Protective coatings; surface treatment off site; before fabrication shot blast cleaning to SA2.5 Swedish Standard SIS. 05.5900; apply one coat of "HGW" or equal approved two pack epoxy zinc rich primer A5214 to a DFT of 25 microns; apply one coat "HGW" or equal approved two pack epoxy high build zinc phosphate primer A5080 to a DFT of 75 microns; spot prime after erection as required					
	Composite Item; 5mm hot dipped galvanised flowforge grating (mesh size 38/125) set into steelwork frame comprising 152 x 89 x 16 UB steel beams; 100 x 50 x 8 RSA					
E	overall size 2300mm x 500mm ; all as per detail 1	10	nr			
F	overall size 500mm x 500mm ; all as per detail 2	10	nr			
	Proprietary Steel Grating Flooring (First Floor)					
	Beams					
	25 - 50 kg/m					
G	254 x 102 x 23 UB	0.33	tonne			
	Galvanised connection plate; 10mm thick fixed to concrete column with and including 4 nr. M12 Grade bolts					
H	300mm x 200mm	3	nr			
	Fittings					
J	Structural Steel Fittings	0.03	tonne			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Protective Coatings					
A	Hot dip galvanising to BS 729 after fabrication; coating with 2 ply epoxy as per Engineers Specification	0.36	tonne			
	Painting; Intumescent painting to achieve one hour fire rating to BS 476-21, structural steelwork in isolated members, include for all necessary steelwork preparation, and top sealer coat and all as per Architects Specification and Engineers Drawings					
B	> 300mm girth	12.7	m2			
	Composite Item; Proprietary steel grating flooring cut to suit grating to be max 41mm pitc, 100mm spacing, bar size 40x5 and designed to take loading of 5kN/m2 fixed on to steelwork frame					
C	overall size 3200mm x 1600mm ; all as per detail 1	1	nr			
D	overall size 2200mm x 1800mm ; all as per detail 1	1	nr			
	Padstones					
	Provide and install reinforced concrete padstones into existing concrete blockwork. Include for all necaessry concrete infill, reinforcement and formwork, all per Engineer's details. Size;					
E	660mm x 215mm x 215mm	4	No.			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
F	Testing	1	Item			
G	Surveys	1	Item			
H	Samples	1	Item			
J	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
K	Testing	1	Item			
L	Surveys	1	Item			
M	Samples	1	Item			
N	Warranties	1	Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/3/1					
Page No. East/3/2					
Page No. East/3/3					
Page No. East/3/4					
Page No. East/3/5					
EL (23) FLOORS, GALLERIES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (27) (28) ROOF & FRAME					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
F	Allow for all necessary temporary propping of concrete floor slabs and removal on completion (Area 1,842m2)		Item			
	CONCRETE WORK					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
G	generally	1	Item			
	IN - SITU CONCRETE					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Slabs					
	> 150mm thick					
H	reinforced	68	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Columns					
	cross sectional area < or = 0.10m2					
A	reinforced	16	m3			
	Upstands and the like					
B	cross sectional area < or = 0.10m2	1	m3			
C	Cross sectional area > 0.10m2	17	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Screed					
	< or = 150mm thick					
D	generally	21	m3			
	CONCRETE WORK: Sundries					
	Designed joints					
	Expansion joints; formed joints including cast-in proprietary shear connectors; joint width 35mm c/w filler material; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete clause 2.5 & 3.1					
	Slabs					
E	width 150 - 300mm	49	m			
	Surface finishes					
	Powerfloating					
F	horizontal	537	m2			
G	EO to falls & cross falls	269	m2			

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to BS 4449; Class B high yield (fy = 500N/mm2) capacity; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Works Requirements					
	Bar:Straight or bent					
A	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	11.14	tonne			
	CONCRETE WORK: Shear Stud Rails					
	Roof Slab Stud Rails Ref.					
B	H10-190-2-350; 350mm long	27	No			
C	H10-190-3-500; 500mm long	12	No			
D	H10-190-4-650; 650mm long	25	No			
E	H10-190-5-800; 800mm long	17	No			
F	H10-190-7-1100; 1100mm long	5	No			
	CONCRETE WORK: Formwork - [Type A Finish]					
	Plain Formwork - Type A Finish; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete					
	Edges of suspended slabs and landings					
	Height 250 - 500mm					
G	generally	81	m			
	Sides of upstands and steps in top surfaces					
H	height <250	10	m			
J	height >500	135	m2			
	Soffits of suspended slabs					
	Soffit height < or = 4.00m					
K	generally	269	m2			

	Description	Qty	Unit	Rate	€	c
	Soffit height 12.00 - 14.00m					
A	generally	7	m2			
	Edges of openings					
	Slabs					
B	area of opening < or = 1.00m2	5	nr			
C	area of opening 1.00 - 5.00m2	5	nr			
	Columns					
	Isolated; rectangular					
D	generally	81	m2			
	Attached; rectangular					
E	generally	8	m2			
	Kickers					
	Columns; rectangular					
F	generally	54	No			
	Opes					
	Forming or cutting opes in roof slab composed of 250mm thick reinforced concrete slab with average 75mm thick concrete screed on top inclusive of trimming to opes as per Engineers requirements					
G	150mm diameter	10	No			
H	200mm diameter	10	No			
J	100 x 100	2	No			
K	203 x 203	15	No			
L	250 x 150	15	No			
	STRUCTURAL STEELWORK					
	This structural steelwork is measured in accordance with the Agreed Rules of Measurement, 2024 { ARM5 }, jointly published by the Society of Chartered Surveyors on the Republic of Ireland and the Construction Industry Federation.		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Rates are to include for all labours in connection with the following work including all fittings		Note			
	All elements of the structure designed by the contractor shall be submitted to the Structural Engineer for comment.		Note			
A	The Contractor shall provide temporary bracing and shoring against lateral forces and all construction loads throughout the work. Design of temporary bracing and shoring to be submitted to the Structural Engineer for approval.		Note			
	Rates for Structural Steel are to include for all site welding. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref 85/4/5 & 6		Note			
	Rates for Structural Steel are to include for all site bolts. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref page 85/2/3		Note			
	Provide for complying with the specification requirements for tests of materials; workmanship, tolerances and finished structures.		Note			
	Builders Work Requirements					
	The contractor must obtain in time all necessary information relating to the structural steel erection builders work to enable the works to be carried out without interruption. Any additional costs incurred by his failure to obtain this information will be at his own expense.					
B	Setting out Structural Steel with Specialist Contractor.	1	Item			
	Structural Steelwork					
	Notes:					
	1. The Contractor is required to design, provide and fix all necessary fittings; caps; bases; hunches; gussets, end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces; bolts and associated fittings and connections which may be necessary to complete this section of the works. The Contractor is required to liaise and co-ordinate with other trades to provide and fix all such fixings as may be necessary for this installation.		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	2. The Contractor will be required to carry out 100% testing on all site welding as detailed in the Structural Engineer's Civil & Structural Specification.		Note			
	The following steelwork to be Grade S355; in accordance with BS EN 10025-2 and the Structural Engineers Civil and Structural Specification; fabrication, surface preparation, priming at works and site erection and treatment to comply fully with all aspects of the structural steelwork specification; all as per Engineer's Performance Specification.					
	Fabricated steelwork; welded fabrication bolted and welded site connections					
	The following in prefabricated steel framework including bolts, nuts and washers for steel connections shot blasted, shop primed and painted as per Engineers Specification and drawings, including fittings; caps; bases; hunches; gussets; end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces and associated fittings					
	Fabricated Steelwork					
	Frame					
	Rectangular Hollow Section					
	25 - 50 kg/m					
A	200 x 100 x 10 RHS [SC2]	0.74	tonne			
	Fittings					
B	Structural Steel Fittings	0.08	tonne			
C	Windpost					
D	<25kg/m					
E	140 x 70 x 4mm x 2.83m long spanning between floors	16	No			
F	EO in stainless steel	16	No			
	Fittings					
G	Structural Steel Fittings	0.71	tonne			
H	EO in stainless steel	1	tonne			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Holding down assemblies					
	4 nr. M25 grade 8.8 HRH holding down bolts 600mm long complete with 70mm diameter uPVC sleeves, 2 nr. 550mm long 90 x 90 x 8.0 RSA angles and 1 nr. 400mm long cross brace to form H-frame, cast into reinforced concrete foundations; all bolts welded to RSA H-frame					
	Cast into concrete					
A	generally	4	nr			
	Grouting					
	5 star non-shrink grout					
	Holding down bolts					
B	M25 x 600mm holding down bolts in 70mm diameter uPVC sleeves	16	nr			
	Epoxy mortar; steel shims for grouting and the like					
	Base Plates					
C	400 x 400mm	4	nr			
	Galvanised base plate; 25mm thick fixed to concrete slab with and including 4 nr. M20 grade 8.8 galvanised bolts; all as per Typical Column/Beam Connections					
D	350mm x 350mm	14	nr			
E	EO in stainless steel					
	Galvanised capping plate; 25mm thick fixed to soffit of concrete slab with and including 4 nr. M20 grade 8.8 galvanised bolts; all as per Typical Column/Beam Connections					
F	350mm x 350mm	14	nr			
G	EO in stainless steel					
	Protective Coatings					
H	Hot dip galvanising to BS 729 after fabrication; coating with 2 ply epoxy as per Engineers Specification	1	tonne			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
A	Testing	1	Item			
B	Surveys	1	Item			
C	Samples	1	Item			
D	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
E	Testing	1	Item			
F	Surveys	1	Item			
G	Samples	1	Item			
H	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. East/4/2					
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Page No. East/4/4					
Page No. East/4/5					
Page No. East/4/6					
Page No. East/4/7					
Page No. East/4/8					
EL (27) (28) ROOF & FRAME **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (24) STAIRS, RAMPS					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	CONCRETE WORK: Precast Concrete / Composite Construction / Stone Faced Concrete Panels					
	Staircores					
	Designed Precast Concrete stairs to IS EN 14843:2007; including angle at top of flight fixed to landing, forming holes, recesses and the like, and all necessary accessories and fixings; FINISH AS DELIVERED: soffits and strings are to be left exposed, therefore a fine smooth finish is required; fixing in accordance with the manufacturers written instructions; all in accordance with the Works Requirements and in particular Arcitects layout drawings and Structural Engineers specification for precast concrete					
	Staircore 1 - Ground Floor to Third Floor - all in accordance with Engineers Drawings					
	Staircase flights					
F	1300mm wide; 10 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; ground floor to half landing	1	nr			
G	1300mm wide; 9 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; half landing to first floor	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	1300mm wide; 10 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; first floor to half landing	1	nr			
B	1300mm wide; 9 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; half landing to second floor	1	nr			
C	1300mm wide; 10 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; second floor to half landing	1	nr			
D	1300mm wide; 9 no. 170mm risers, 10 no. 280mm goings and 200mm thick waist; junction with wall one side; half landing to third floor	1	nr			
	Landings					
E	Mid landing; approx. size on plan 4m2 (rectangular shaped)	3	nr			
	Concrete Work: In-situ					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	Non structural concrete screed laid on concrete slabs; grade C30/37; as per the Engineers Drawings and Specification					
G	Screed; not exceeding 100 mm thick.	2	m3			
	Concrete Work: Reinforcement					
	Fabric reinforcement					
	Reference A252; 300mm laps per specification					
H	one layer horizontal in landing slabs.	12	m2			
	Concrete Work: Formwork					
	Wrot Formwork					
	Formwork to Engineer's Specification					
	Edges of landings					
J	< 250 mm high.	25	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Surface Finish					
A	Steel float concrete finish as per specification	12	m2			
	CONCRETE WORK: Sundries					
	Designed joints					
	M20 x 300mm long mild steel anchor pin to bottom step of stairs; hole to be grouted flush					
	Anchor pins					
B	generally	12	nr			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
C	Testing	1	Item			
D	Surveys	1	Item			
E	Samples	1	Item			
F	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
G	Testing	1	Item			
H	Surveys	1	Item			
J	Samples	1	Item			
K	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/5/1					
Page No. East/5/2					
Page No. East/5/3					
EL (24) STAIRS, RAMPS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (21) EXTERNAL WALLS					
	GENERAL INFORMATION					
	For further details refer to Architects drawings and specifications.		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
	PRECAST CONCRETE					
	Prestressed Concrete Lintels bedded in approved sand cement mortar; all in accordance with Architects Specification & Engineers Specification					
	Include for all temporary propping until blockwork over is mature in accordance with the manufacturers instructions					
A	215 x 65mm	130	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Brickwork					
	Brickwork					
	Clay facing brickwork to external walls (215 x 102.5 x 65mm units) Type A; ; DESCRIPTION; Handmade, fired clay, facing brick with with sanded finish; Manufacturer; Vandersanden or equivalent; PRODUCT REFERENCE; Lima 124AD or equivalent; COLOUR; Ivory White brick with shades of grey; TEXTURE; Slight wrinkles in surface distinctive of handmade bricks; CONFIGURATION; Solid; MOULD RELEASE PROCESS; Sand applied to clat clot prior to insertion in mould. Machinemoulded handmade process of applyingsand to the mould is not acceptable; TYPE: Frogged; SPECIAL SHAPES: Measured seperately below; MORTAR: As specification clause Z21; - Standard: to BS EN 998-2; - Mix: Moderately hydraulic HLM3.5; Additional requirements: Reaction to fire class: A in accordance with I.S. EN 13501-1: 2002 - use locally sourced granite sand to achieve indigeneous mortar appearance; BOND: Half lap stretcher; JOINTS: Flush pointing as the work proceeds; APPROVAL: brick subject to sample approval; MIX/BLEND: mix from a minimum of 3 packs concurrently to avoid any possible colour banding; PROTECTION: protection against inclement weather, bricks arriving on site should be stored in a clean dry place and covered; Newly built brickwork must also be covered in order to prevent the possibility of efflorescence and the washing out of mortar joints; all in accordance with the Works Requirements and in particular Architects specification clause F10 110A					
	102.5mm thick					
A	generally	666	m2			
	Labours					
	On brickwork					
B	generally	1	item			
	Extra over for special bricks					
	Closer					
C	50 x 102.5 x 65mm	270	m			
	Pistol bricks and rebated stretchers to soffits as drawing 15DOM-511/597					
D	girth 150 - 300mm	460	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Blockwork					
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification					
	Inner Leaf Of External Walls					
A	225mm thick	843	m2			
	Extra over for THERMAL BLOCKWORK; Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 7.5N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bond with neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
	215mm thick					
B	<300mm wide	68	m2			
	Labour on Blockwork					
C	Generally		Item			
	Bonding to Other Work					
D	215mm blockwork tied to existing external masonary wall of existing building, Include for all necessary preparing existing wall to recieve new blockwork wall, and also for any necessary reinstatement after. All to the satisfaction of the Engineer and Architect.	13	m			
E	215mm blockwork tied to Reinforced Concrete Columns / Walls. Include for "Abbey Anchor" Dovetail Slots to be Cast Into Reinforced Concrete Columns @ 450mm Vertically To Restrain Inner Leaf. All per Engineer's drawing DR-S-4010.	560	m			

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Forming cavities					
	Full fill cavity insulation to masonary / in-situ concrete cavity wall; 130mm wide cavity; WALL TIES: vertical twist type stainless steel wall ties complying with BS 1243 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings; INSULATION: 120mm thick rigid phenolic foam insulation board with an outer facing of vapour open polypropylene fleece and a composite (perforated) foil on the inner face with a thermal conductivity of 0.018W/mk; all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause F30/150A					
	Between new walls					
A	130mm wide cavity	666	m2			
	Damp proof courses					
	Damp proof course to IS 57, Ruberiod Hy-Load Bituminous Polymer 1.10mm thick or equivalent; 200mm laps; sealed with and including poly-butyl rubber tape; all in accordance with the Works Requirements and in particular Architects specification clause F30/320A					
	Width < or = 225mm					
B	vertical	663	m			
	Width > 225mm					
C	horizontal [under cills and dressed around ends]	65	m2			
	Damp proof courses - [Preformed cavity trays]					
	Composite item; preformed aluminium cavity trays fixed to structure with and including thermal isolating pad and flashed at top with EPDM bonded to structure; all in accordance with the Works Requirements and in particular Architects drawing nr. 15DOM-503 & 504 and specification clause F30/370 & 380A					
	Cavity trays					
D	girth 450 - 600mm girth; stepped	799	m			

	Description	Qty	Unit	Rate	€	c
	Designed joints					
	Movement joints; expansion joints in blockwork 12mm wide; cleaning and priming both faces; preformed stainless steel bead jointed by original vertical jamb DPC; filling with polythene filler; extra wall ties; all in accordance with the Works Requirements					
	Designed joints					
A	vertical; 102.5mm thick brickwork	45	m			
	Sundries					
	Ventilation ducts in external walls; non-adjustable louvre grille, blades at 12.5mm centres, in square grade 316 stainless steel frame; all in accordance with the Works Requirements and in particular Architects drawing nr. 15DOM-587 and specification clause F30/171					
	Ventilation openings					
B	generally	67	nr			
	Peep weep hole with circular outlet, at maximum 1000mm centres and not less than 2 over each opening; all in accordance with the Works Requirements and in particular Architects specification clause F30/132					
	Weep holes					
C	generally	799	m			
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Cavity Barriers					
	Mechanical cavity barriers; MANUFACTURER: Rockwool Ltd or equivalent Frie Pro SP Firestop EN (SP FireStop EN 60; STANDARD; to BS EN 1366-4:2021; TYPE; Rigid; ; FACING; Metal foil laminate; FIRE PERFORMANCE; TO E1 60 to BS EN 13502-2; RECYCLED CONTENT; 20-25%; REACTION TO FIRE; EuroclassA1 Non Combustible; THICKNESS; 75MM; WIDTH; 1200mm; LENGTH 1000mm; COLOUR ; Blackall in accordance with the Works Requirements and in particular Architects Specification Clause P10/432A					
	150mm thick cavity					
D	horizontal	487	m			
E	vertical	122	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Vapour Control Layer					
	Vapour control layer fixed to concrete structure behind cladding; MANUFACTURER: Tyvek Dupont or equivalent, Product Reference Airguard A2 FR; REACTION TO FIRE; to EN 13501-1 A2-s1, D0; WATER VAPOUR TRANSMISSION PROPERTIES; to EN 1931 - 4900u; WATER TIGHTNESS (2 kPA;); to EN1928; THICKNESS 1.5mm; all in accordance with the Works Requirements and in particular Architects specification clause P10/310A					
	> 300mm wide					
A	generally	666	m2			
	STRUCTURAL: Steelwork					
	PREFABRICATED STEEL LINTELS:					
	Ancon Nexus Steel lintel or similar with and including brick slip soffit with min. 225mm bearing. Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. - To be installed in accordance with manufacturers recommendations. Refer to architectural drawings for U-value requirements.. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication					
	Lintels to suit 465mm wide cavity wall construction (connsisting of 100mm outer leaf, 150mm cavity and 215mm inner leaf). Include for brick slips fixed to underside of lintel, complete					
B	Type L2	104	m			
	Support system for outer leaf brickwork/blockwork					
	Grade stainless steel angle and bracket support system; stainless steel angle (dead load 14kN/m) fixed to cast in channel using "T-head" bolts; all fixing in strict accordance with the manufacturers written instructions. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication					
	Support system to outer leaf brickwork/blockwork					
C	150mm cavity width	408	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/6/1					
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Page No. East/6/6					
Page No. East/6/7					
EL (21) EXTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (31) EXTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architect's drawing nrs. 120-123, 152, 153, 321-329, 600-606, Architects External Window & Door Schedule, and Architects Specification		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	For detailed description of workmanship and materials refer to specification.		Note			
D	Supply and fix in position the following including all necessary frames, bolts and anchorages.		Note			
	WOODWORK					
	Woodwork					
	Boarding and second fixing					
	Softwood window board; 1. Description: 35mm softwood free from decay with no knots wider than half the width of the section. 2. Quality of wood and fixing: To BS 1186-3. 2.1. Species: Contractor's choice 2.2. Class: 1 3. Moisture content at time of fixing: 10% 4. Fabrication: As Section Z10 5. Reaction to fire rating: To IS EN 13501-1, Class B or better 6. Finish as delivered: Prepared and primed, as section M60 7. Fixing: secret screws 300mm centres fixed to wet plaster on Blockwork. 8. Joint treatment: butt jointed. Inclusive of softwood timber grounds, <150mm girth vapour membrane to H31/261. All per Architect's drawings and Specification P20/110B					
	Second fixings; window boards					
E	Circa 120mm wide x 35mm thick window board	91	m			
	Sundries					
F	Mastic sealant joint externally around window frames; 1. Sealant 1.1. Manufacturer: Submit proposals 1.1.1. Product reference: Submit proposals 1.2. Colour: Submit proposals 1.3. Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile. All per Architects drawings and Specification L10/810A	465	m			
G	Ditto as last, internally	466	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Expanding polyurethene foam to fill gaps between cavity closer and frame; MANUFACTURER: Submit proposals.; PRODUCT REFERENCE: Submit proposals.; THICKNESS: To fill gaps as noted on relevant details - typically 10mm-25mm. SURVEY: Carry out before installation.; IDENTIFIED DEFECTS: Submit proposals for rectification.; INSTALLATION: In accordance with Agrement Certificate. All per Architects drawings and Specification	466	m			
	Air / Vapour membrane; laps to Architects Specification, sealed with contact adhesive bedding in cement mortar; as per Architects specification section H31/261					
	Width not exceeding 225mm					
B	To head, jamb & base of openings	466	m			
				To Collection €		

Description	Qty	Unit	Rate	€	c
DOUBLE GLAZED WINDOWS/SCREENS **Composite windows** 1. Description: Highly insulated thermally broken aluminium sash and timber frame. Aluminium sash profiles will be fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. The sealed glass unit must be internally dry-glazed with EPDM gaskets and the glass rebate must be formed of aluminium. 2. Manufacturer: Novus windows OR Equivalent 2.1. Product Reference: Nation Ideal Combi OR Equivalent 3. Type: For use generally as: - Apartment balcony doors with fixed sidelights - Side hung Tilt / Turn windows Fixed windows Refer to architectural drawings for types and configurations of windows / doors. 4. Standard: Non-fire-rated and/ or non-smoke-rated windows to BS EN 14351-1 Fire-rated and/ or smoke-rated opening windows to BS EN 14351-1 and BS EN 16034 5. Materials 5.1. Exterior frame/ sash cladding: Aluminium/ Timber Outward & Inward Opening Sashes. The window sash will have a 54mm external sash profiles which are fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. 5.1.1. Finish: The external aluminium sash must be polyester powder-coated in compliance with BS 6496, BS 6497, GSB and DIN 50939, to a selected metallic RAL colour [TBC] to gloss level 30% or gloss level 77% and a primary coating thickness of between 60-120 um 5.2. Interior frame/ sash section: The system must have an internal structural frame of laminated softwood, sourced from a renewable and managed supply chain. Quality optimised finger jointed timber with 149mm (or 175mm) overall depth of frame. The frame is completed with PUR core with a lambda value of 0.074 W/mK and external PPC Aluminium profile 5.2.1. Timber standard:: To BS EN 942. Softwood as table NA1 Appearance class: J30 Moisture content on delivery: 12 - 19% 5.2.2. Assembly adhesive:: Thermosetting resin to BSEN 12765 class C4 5.2.3. Joinery workmanship:: As section Z10. 5.2.4. Preservative treatment:: Organic solvent as section Z12 and WPA Commodity Specification C5; service life 50 years 5.2.5. Finish: The internal timber frame to be preservative treated with fungicides and have a further two coat factory pre-finish with an environmentally friendly (solvent free) 100% Acryl emulsion/water-based surface treatment. The coating is to have a dry paint thickness of between 60-100 um and a colourless finish to gloss level 25 (silk matt). 5.2.6. Fixing:: Galvanised straps at 600mm centres, or as manufacturers recommendations 5.3. Spandrel panel: The facade panel is an insulated aluminium panel that is provided as part of the overall system and fitted within frame to match the windows. It must be fire rated to achieve 60 minutes fire resistance for load bearing capacity, insulation and integrity					

To Collection €

Description	Qty	Unit	Rate	€	c
6. Performance: 6.1. Air permeability:: Class 4 at 600 Pa in accordance with EN 12207: 2016and EN1026:2016 6.2. Water tightness: Class E1500 in accordance with EN 12208: 2000 6.3. Wind load: Class C4 in accordance with EN12210: 2000. no deformation or damage must be recorded at an applied wind pressure of 1800PA using test method EN 12211 (BS 6375 part 1). 6.4. Exposure category: 1600 in accordance with BS6375: Part 1: 2009 and the window system must be tested to meet the requirements of BS 6375 part 2. 6.5. Security: PAS 24:2012: Pass 7. Thermal performance (U-value maximum): The thermal transmittance (U value) for the window system and glazing (including spandrel panels) shall not exceed: Overall Windows U Value (Uw) = 1.1 W/M2 K 8. Operation and strength characteristics: To BS 6375-2. 9. Acoustic performance rating: Manufacturer's standard 10. Environmental performance: Manufacturing facilities will operate an ISO 14001 environmental policy as will key suppliers. All timber will be fully FSC certified, and 85% of aluminium will be procured from hydro-electric sources with a recycled content of at least 50%. 11. Glazing details: Low E Double Glazed Unit in accordance with EN 1279 Light Transmittance (Lt): 0.74 Warm Edge Spacer Bar: Black Swiss V Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors. The use of site-applied wet or dry sealant placed in the outermost plane of the windows/screens in order to seal between units and/or other adjacent materials will be unacceptable 11.1. TGU U Value (Ug): 0.53 W/M2K 11.2. g-value: : 0.53 11.3. Light Transmittance (Lt): 0.74 11.4. Warm Edge Spacer Bar: Black Swiss V 11.5. Safety glass: Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	12. Ironmongery/ accessories: To include: PPC Aluminium Tray Cill Pressings Concealed Aluminium Click Vents Integrated Espagnolette Handles to operate a fully concealed multi-point locking mechanism with night vent position. Concealed Dual Function Restrictors to all openings above GFL Friction stays, sliding tracks, hinges and handles must be sourced from one single manufacturer and/or must have been developed and engineered specifically with the proposed window system in mind. Opening handles are to be single handles incorporating a multipoint locking mechanism fully concealed within the sash with only one handle permitted per window/ door. Alternative handle specification will be to provide 2 SAA (or equivalent) square catch handles per window. Enhanced ironmongery to be upgraded from general specification above due to increased security requirement: Refer to Section P21 505 and ironmongery schedule for further details. 13. Background ventilation:: Concealed aluminium click vents to provide equivalent area as required for compliance with TGD Part F 2019. A schedule of ventilation areas achieved by each window unit is to be provided to the Architect prior to placement of order. 14. Warranty & Design Life:: The window system will have an expected design life of at least 60 years and a schedule of maintenance will be provided. The complete window inclusive of framing, gaskets, ironmongery and glazing will be covered by a 10 year warranty from date of manufacture. 15. Verification: 15.1. Submittals: Manufacture: Window production facilities will operate an ISO 9001 quality control system. 15.2. Timing: Before placement of orders. Inclusive of all fixings, sealing, ironmongery, complete. All in accordance with Architects Specification L10/410					
A	Type WF - Window size to suit structural ope 1360mm wide x 2260mm high; 1Nr opening section as per Architects Drawing 600	4	No			
B	Type WJ - Window size to suit structural ope 1810mm wide x 1360mm high; 1Nr opening section as per Architects Drawing 601	1	No			
C	Type WK - Window size to suit structural ope 1585mm wide x 1360mm high; 1Nr opening section as per Architects Drawing 601	2	No			
D	Type WM - Window size to suit structural ope 1585mm wide x 2260mm high; 1Nr opening section as per Architects Drawing 602	10	No			
E	Type WN - Window size to suit structural ope 1360mm wide x 2260mm high; incorporating single door as per Architects Drawing 602	25	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type WP - Window size to suit structural ope 1810mm wide x 2250mm high; 1Nr opening section as per Architects Drawing 602	6	No			
B	Type WQ - Window size to suit structural ope 1135mm wide x 2260mm high; fixed panel as per Architects Drawing 602	3	No			
	Curtain Walling					
	Curtain Walling 1. Description: Aluminium curtain walling system with externally flush silicone jointing between adjacent toggle fixed glazing units and adjoining perimeter cladding. Curtain wall mullion profiles shall be internally reinforced where necessary and dead load supported and laterally restrained at floor levels 2. Location:: DVR - Ground floor windows to East Block - EBWG.06 and EBWG05 West Block - Type WE window (to stair block on all levels) 3. Supporting structure: Steel superstructure for vertical elements and head detail. 4. Curtain walling system 4.1. Type: Structurally glazed system Schueco FWS50 SG SI - or equivalent 5. Internal framing member 5.1. Material: Aluminium 5.2. Finish: Anodizing 5.2.1. Colour/ texture: Natural - Refer to Section Z33 6. External cover cap 6.1. Material: Aluminium 6.2. Finish: Anodizing 6.2.1. Colour/ texture: Natural - Refer to Section Z33 7. Glazing: 7.1. Performance requirements:: High performance solar control coated (typically high performance solar control coating to surface #4 or #6), argon filled, toggle fixed, insulating triple glazed vision units with PVB (acoustic if required) laminated 1(B)1 (in accordance with EN12600) safety glass to external and internal leaf's with black warm edge spacer bar technology (Swisspacer Ultimate or equivalent). Medium-iron content substrates to be used throughout. 7.2. Glazing calculations: Calculations to be based on 2-sided held glass 7.3. Average glazing u-value including frame factor: see clause 370 7.4. Glazing light transmittance (G-value): 0.40 maximum 7.5. Glazing Security performance (EN356): P4A 7.6. Other requirements: Silicone seal spacer required 8. Accessories: Any associated accessories required to complete the system design including, but not limited to: - Perimeter flashings - Glass manifestation. All in accordance with Architects Specification H11/110A					
C	Type WG - Size to suit structural ope 6340mm wide x 2260mm high; multiple fixed panel as per Architects Drawing 601	1	No			
D	Type WH - Size to suit structural ope 1360mm wide x 2810mm high; fixed panel as per Architects Drawing 601	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Proprietary windows - AOW					
	1. Description: Louvre windows with actuators to provide smoke extraction to commonal corridor areas 2. Standard: Natural smoke and heat exhaust ventilators in accordance with IS EN 12101 3. Manufacturer: Fieger OR Equivalent 3.1. Product reference: FLW-32 OR Equivalent 4. Ventilation requirements:: Minimum free area of 1.5m2, in accordance with Para 6.1.4 of the TGD B: 2024 5. Operation:: The vents will be automatically opened by the fire detection and alarm system, on activation of smoke detectors in the stairway enclosure/ on activation of the smoke control system as specified by Mechanical & Electrical Engineer, and will also be manually openable for fire brigade use. The manual override will be provided with clear signage as to its function and operation, for fire service use only. AOV's will comply with IS EN 12101-2. Where any part of the control mechanism is powered by electricity, a secondary supply will be provided. 6. Integration of control systems: Refer to Mechanical & Electrical Engineer specfications and drawings. 7. Finish as delivered: Finish to match system specified Section L10/410 8. Frame dimensions: 8.1. Visible frame width (vent): 40mm (horizontal and vertical) 8.2. Visible frame width (louvres): 21 mm 9. Performance:: in accordance with IS EN 12101-2 10. Thermal performance (U-value maximum): 1.1 W/m2K with triple glazing 11. Air permeability: Class 4 in accordance with EN 12207 12. Watertightness: Class 7A in accordance with EN 1220813. Glazing details: 28 mm double-glazed 14. Accessories: As required to complete the commissioning of the smoke control system including,but not limited to the following: Fireman's override switches Key switches MCC Panel Pressure sensors. Refer to Mechancial & Electrical Engineers drawings and specifications for more details. 15. Fixing: As per manufacturers recommendations. 16. Verification. Inclusive of all fixings, sealing, ironmongery, complete. All in accordance with Architects Specification L10/390					
A	Type WL - size to suit structural ope 1135mm wide x 2260mm high; 5Nr opening vents as per Architects Drawing 601 and 323	4	No			
B	Extra over for linking to fire alarm, control system, actuator, associated wiring and controls etc. (if not already included for in the Electrical Installations element of this Pricing Document)	4	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Metal Doorsets Plant room					
	1. Description: Highly insulated aluminium doorset for plant rooms. 2. Manufacturer: Submit proposals 2.1. Product reference: Submit porposals 3. Types: Refer to architectural drawings 3.1. East Block - Plant room: Outward swinging double doors 3.1.1. Fire resistance: EI60Sa in accordance with IS EN 13501-2 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: EI60 4.1.2. Smoke leakage: Sa 4.1.3. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. 4.2. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB. 4.3. Thermal performance (U-value maximum): 1.6 W/m2K. 4.4. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627_EN(V)1630 4.5. Watertightness: Up to 600 Pa (class 3) 4.6. Air permeability: Up to 300 Pa (class 7A) 4.7. Resistance to wind load: Up to 800 Pa (class C2) 5. Door leaf 5.1. Material: Anodized Aluminium - to match finish as clase L10/ 410 5.2. Type:: Flush panel 6. Frame 6.1. Material: Anodized Aluminium - to match finish as clase L10/410 6.2. Threshold: Flat aluminium with brush seal 7. Architrave 7.1. Material: Plasterboard + skim to internal reveal. 8. Ironmongery: 8.1. Handles: Shield handles, natural anodized 8.2. Access control: Mortice lock with key and thumbturn internally. 9. Perimeter seals: Fire and smoke seal + EPDM weatherseal. 10. Other requirements: Flush threshold drain with lapping DPC/ EPDM on exterior side connected to surface water drainage network 11. Fixing: As per manufacturer's guidelines 12. Warranty: Ten year 13. Verification 13.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's certification and warranties for a period of 15 years. Manufacturer's literature and/ or certification. Declaration of Performance or a third-party certification in respect of fire performance by a EU-accredited third-party testing organizatio Evidence of CE marking 13.2. Timing: Before placement of orders. Inclusive of all fixings, sealing, ironmongery, complete. All in accordance with Architects Specification L20A/485					
A	Type DC - size to suit structural ope 1810mm wide x 2285mm high; double doorset as per Architects Drawing 605	1	No			
B	Type DK - size to suit structural ope 1300mm wide x 2250mm high; louvered single doorset as per Architects Drawing 606	3	No			
C	Type DL - size to suit structural ope 2030mm wide x 2250mm high; louvered double doorset as per Architects Drawing 606	1	No			

To Collection €

Description	Qty	Unit	Rate	€	c
Metal Doorsets Stairwell egress 1. Description: Highlt insulated aluminium doorset for stairwell entrance / external egress, including fire rating where applicable. 2. Manufacturer: Schueco OR equivalent 2.1. Product reference: ADS 70 HI - OR equivalent 3. Types: Refer to architectural drawings 3.1. West Block - Stair 1 (Type WE): Outward swinging glazed door with sidelight 3.1.1. Min. clear opening part L: 1000 mm 3.1.2. Fire resistance: EI30Sa in accordance with IS EN 13501-2 3.2. DVR - Stair 1 (Type DF): Outward swinging glazed door 3.2.1. Min. clear opening part L: 1300 mm 3.2.2. Fire resistance: NFR 3.3. DVR - Stair 2 (Type DJ): Outward swinging glazed door 3.3.1. Min. clear opening part L: 1300 mm 3.3.2. Fire resistance: NFR 3.4. East Block - Stair 3 (Type DD): Outward swinging glazed door 3.4.1. Min. clear opening part L: 1000 mm 3.4.2. Fire resistance: NFR 3.5. DVR - Laundry (Type DH): Outward swinging solid aluminium door 3.5.1. Min clear opening Part L: 800mm 3.5.2. Fire Resistance: Fire resisting doorset achieving 60 minutes fire resistance (Integrity) in accordance with EN 1634: 2014. Doors fitted with smoke seals to be in accordance with EN 1634-3.					

To Collection €

	Description	Qty	Unit	Rate	€	c
	4. Performance 4.1. Fire performance 4.1.1. Fire resistance: EI30 Sa 4.1.2. Smoke leakage: Sa 4.1.3. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. 4.2. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB. 4.3. Thermal performance (U-value maximum): 1.4 W/m2K. 4.4. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627_EN(V)1630 4.5. Watertightness: Up to 600 Pa (class 3) 4.6. Air permeability: Up to 300 Pa (class 7A) 4.7. Resistance to wind load: Up to 800 Pa (class C2) 5. Door leaf 5.1. Material: Anodized Aluminium - to match finish as clase L10/410 6. Frame 6.1. Material: Anodized Aluminium - to match finish as clase L10/410 6.2. Threshold: Flat aluminium with brush seal 7. Architrave 7.1. Material: Plasterboard + skim to internal reveal. 8. Glazing/ infill details: 8.1. Type:: Double glazed 8.2. Fixing: Glass to be set against extruded EPDM rubber gaskets retained in undercut grooves within the aluminium profile and clip-in glazing beads 9. Ironmongery: 9.1. Handles: Shield handles, natural anodized 9.2. Access controls: Refer to electrical engineers specification 9.3. Closer: Overhead closer compatible with doorset manufacturer guidelines. 10. Perimeter seals: Fire and smoke seal + EPDM weatherseal. 11. Other requirements: Flush threshold drain with lapping DPC/ EPDM on exterior side connected to surface water drainage network 12. Fixing: As per manufacturer's guidelines 13. Warranty: Ten year 14. Verification 14.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's certification and warranties for a period of 15 years. Manufacturer's literature and/ or certification. Declaration of Performance or a third-party certification in respect of fire performance by a EU-accredited third-party testing organizatio Evidence of CE marking 14.2. Timing: Before placement of orders. Inclusive of all fixings, sealing, ironmongery (inclusive of door closer), complete. All in accordance with Architects Specification L20A/480					
A	Type DD - size to suit structural ope 1135mm wide x 2260mm high; single doorset as per Architects Drawing 605	1	No			
	Sundry Details					
B	100 x 100 x 10 galvanised steel angle fixed to concrete floor slab with M16 chemical anchor bolts at 400mm max centres and inclusive of thermal packer as per Architects Drawing 321	100	m			
C	Mineral wool insulation; per Architects Drawing 322 detail 14 and Architects Specification H31/270; 40mm thick	9	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Supply and fix Thermal Compact Foam Batten to support glazed screen / doorsets, fixed to reinforced concrete / blockwork inner leaf, 2 fixings at 400 centres for all, size of fixings to contractor design, all as per Architects Drawing 322 and specification section L10 / 785					
A	Thermal compact foam batten; per typical detail on Architects Drawing 322 detail 14 and Architects Specification L10/785; circa 130mm high x 50mm thick	100	m			
	Matching Cills					
	Matching Powder Coated Aluminium cills to all Windows, include for all necessary, EPDM, DPC, Insulation, seals, plywood to falls, grounds, etc. complete, as detailed per the following:					
B	<300mm as per typical sill detail 28 on Architects Drawing 325	3	m			
C	Extra over for ends	2	No			
D	300mm-450mm as per typical sill detail 21 on Architects Drawing 323	77	m			
E	Extra over for ends	96	No			
F	<300mm as per typical sill detail 15 on Architects Drawing 322	5	m			
G	Extra over for ends	6	No			
H	<300mm as per typical sill detail 14 on Architects Drawing 322	7	m			
J	Extra over for ends	10	No			
	Cladding					
	Composite cladding comprised of 3mm thick aluminium pressing on mineral wool thermal insulation; overall circa 80mm thick; inclusive of all fixings, sealing, EPDM etc. complete all as per Architects Drawing 322 Detail 14					
K	>300mm	9	m2			
L	Extra over for propritary base detail forming drip flashing	17	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	MANUFACTURER: Submit proposals; PRODUCT REFERENCE:submit proposals; Paint system proposed to be designed for intended application, supported by manufacturer's product datasheet.; SURFACES: Uncoated or primed internal softwood or hardwood.; PREPARATION: As Clause 400.; INITIAL COATS: Primer as recommended by paint manufacturer.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer; UNDERCOATS: As recommended by manufacturer.; NUMBER OF COATS: 2 minimum, or as recommended by manufacturer.; FINISHING COATS: Satin.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer. FINAL COLOUR: to be confirmed, on submittal of colour range.; all as per Architects specification section M60 / 130					
	General surfaces; to timber base					
A	not exceeding 300mm	91	m			
	Juliet Balustrades					
	1. Description: Externally fixed metal balustrade installed to outer face of new masonry wall at window openings to create a 'Juliet balcony' with guarding height level of min. 1100mm above Internal FFL. 2. Contractor Responsibility:: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. 3. System manufacturer: Submit proposals 4. Performance: As clause 220. 5. Guarding 5.1. Material: Metal panels. 5.2. Finish: Polyester powder-coated, as section Z31. 6. Height (to upper surface of rail) 6.1. Above FFL:: 1100mm 7. Accessories: None. 8. Verification:: 8.1. Submittals:: Fabrication drawings showing elemental sizes, fixings, anchorages to supporting structure and joint details in accordance with design intent drawings. 8.2. Timing:: Before placement of orders. Fixed to through outer leaf to inner leaf and inclusive of all fixings, thermal plates, DPC, cavity tray, weep holes through brickwork, flashing etc. as required in sealing brickwork around steelwork and leaving perfectly waterproof					
B	1100mm high; inclusive of 50mm timber handrail; as per Architects Drawing 355 and Specification L37/160B	54	m			
	Extra over for					
C	Ends	66	No			

	Description	Qty	Unit	Rate	€	c
	Painting					
	Prepare and apply polyester powder coat to BS6497 to a minimum thickness of 60 micron, on steel					
A	Balustrades (measured both sides)	119	m2			
	1. Manufacturer: Dulux system D4041 OR Equivalent 2. Surfaces: new exterior non resinous softwood, hardwood, plywood 2.1. Preparation: Woods with a knot content above that specified in BS EN 942 should not be used. New wood should ideally be preservative impregnated, see BS 8413:2003. In some situations this may be mandatory. Thoroughly clean down to ensure all areas are free from dirt, grease and surface contaminants. Carefully remove any plaster or mortar deposits. Remove oils from surface by wiping with White Spirit. Abrade overall in the direction of the grain to remove any grey denatured timber, raised grain and round all sharp edges (a radius of 1 mm to 2 mm for timber other than sills and thresholds; 3mm for sills and thresholds) and *dust off. Apply two thin coats of an appropriate knotting solution to all knots and resinous areas and allow to harden. Ensure all surfaces are fully dry before proceeding. Note *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. 3. Initial coats: 2 coats of Dulux Trade Weathershield Aquatech Preservative Basecoat + (BP) or equivalent. Make good all cracks, nail-holes, open joints and other imperfections with Dulux Trade Weathershield Exterior Flexible Filler or equivalent. 4. Finishing coats: 2 coats of Dulux Trade Weathershield Quick Drying Exterior Undercoat or equivalent of selected shade. One coat of Dulux Trade Weathershield Exterior Quick Drying Satin or equivalent of selected shade. All as per Architectes Specification M60/175B					
B	50mm diameter handrail	54	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/7/1					
Page No. East/7/2					
Page No. East/7/3					
Page No. East/7/4					
Page No. East/7/5					
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Page No. East/7/9					
Page No. East/7/10					
Page No. East/7/11					
Page No. East/7/12					
Page No. East/7/13					
Page No. East/7/14					
EL (31) EXTERNAL WALL COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (32) INTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 120-123, 580-585, 610-615, Architects Internal Door Schedule, Architects Ironmongery Schedule, Architects Specification		Note			
B	The Structural Engineer's & Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	For detailed description of workmanship and materials see specification.		Note			
D	All exposed hardwood and softwood shall be kept clean in preparation for decoration		Note			
E	Doorsets described as fire resisting are to be provided exactly in accordance with a specification describing construction and ironmongery which as when tested to BS 476: Part 8 or BS 476: Part 22: 1987 provided fire resistance of no less period than specified		Note			
F	Manufacturing Test Certificates, Reports, Supplements and Evaluations are to be provided as evidence that all functions, sizes and glazing arrangements that are to be supplied are approved.		Note			
G	All fire doors are to be identified by a permanently fixed small flush metal plate, indicating the period of fire resistance, manufacturer, year of manufacture and other pertinent details		Note			
H	Doors and screens (measured separately) in this section have not been fully described and the Contractor is to examine the joinery details and to include in his rates for all hardwood spacers, frames, heads, cills, jambs, mullions, transoms, plinths, doorstops, glazing beads, fillers etc. and all their associated labours, all exposed components to be glued and countersunk screwed only (securing frames i.e. holes, bolts and mortices in solid concrete blockwork are measured separately)		Note			
J	All Internal doors are to conform to part 1.9 (a,b,c,d,e,f) and diagram 5 and 6 of the TGD part M 2000		Note			
K	NOTE: Design Team preference for complete Door System manufacturer and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Contractor is required to provide complete Door System manufacture and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval.		Note			
B	Doorsets and screens to be fully finished , decoration etc, before fitting on site. contractors to include here for all necessary protection to finished doorsets and screens, including for all necessary touch-ups etc. as required, prior to handover at completion of the building contract.		Item			
	Contractor to identify party that will act as ancillary certifier for complete doorset (Doorset ancillary certifier). Doorset ancillary certifier to ensure the following; All per Architect's Specification L20					
C	- that Fire Test Certification is available for all doorsets		Note			
D	- that Fire Test Certification for each doorset is compatible with proposed door frame detail, and with proposed gap under door (in particular if gap is required below door for air circulation)		Note			
E	- that doorset is installed in accordance with fire test certification, in particular in relation to gap between frame and ope, and between doorset and frame/ floor below		Note			
F	- that ironmongery proposed is fully compatible with Fire Test Certification for door and frame		Note			
G	- that proposed doorsets comply with both Part B for closing force requirements and Part M for opening force limits		Note			
H	- that minimum acoustic standards for entire doorset are met		Note			
J	- that all maglocks are installed and commissioned to ISEN13637		Note			
K	- that all fire rated glazed screens are fitted with appropriate glazing to ensure that integrity and insulation requirements are met		Note			
L	- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK					
	Second Fixings					
	1. Hardwood Architrave to BS 1186-3 1.1. Species: European Oak (Quercus Petrea) 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: Pencil round arris 4.1. Finished size: 100mm x 19mm 5. Finish as delivered: clear matt lacquer as clause N10.025 6. Fixing: screwed and pelleted or as noted on the drawings. Include for all necessary mastic seals, etc. complete. All per Architect's Specfication P20/120A					
	Architrave					
A	100 x 19mm thick	1017	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Composite Items					
	Non Fire Rated Doorsets Including Frames					
	1. Description: Refer to architectural drawings 600 series for details: 2. Relevant door types:: C, I, J, K, CG & CK 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: NFR 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 120 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufacturers's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: Nominal 125 x 57mm European Oak all as per clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: N/A 9. Architrave: As clause P20/120A (measured separately) 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturers literature and/ or certification. Test results, report and certification from an accredited testing facility. CE Declaration of Performance or a third-party certification in respect of fire performance by an EU / NSAI-accredited third-party testing organization. Manufacturer's certification and warranties for a period of 15 years. 15.2. Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410A					
	Single Doorsets & Frame					
A	1,070 x 2,250mm high, Include for supply and fitting ironmongery Set KR1013	3	No			

	Description	Qty	Unit	Rate	€	c
	Fire Rated Doorsets Including Frames					
	1. Description: Refer to architectural drawings 600 series for details: 2. Relevant door types:: A, F, G, H, V 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E30. 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufacturers's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: Nominal 125 x 57mm European Oak all as per clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: Overhead concealed 9. Architrave: As clause P20/120A (measured separately) 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's literature and/ or certification. Test results, report and certification from an accredited testing facility. CE Declaration of Performance or a third-party certification in respect of fire performance by an EU / NSAI-accredited third-party testing organization. Manufacturer's certification and warranties for a period of 15 years. 15.2. Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410B					
	Single Doorsets & Frame					
A	725 x 2,250mm high; FD30, Include for supply and fitting ironmongery Set KR1014	4	No			

	Description	Qty	Unit	Rate	€	c
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: A, M, Q, CF, CI, CH, CM, CN & CQ 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E30. 4.1.2. Smoke leakage: Sa Sa. 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: Overhead concealed generally. Note that door types CM & CN are equipped with hold open systems 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: Circular vision panels - refer to architectural drawings 10.2. Side panel:: Fixed sideleaf - refer to architectural drawings 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops. 15. Verification 15.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's literature and/ or certification. Test results, report and certification from an accredited testing facility. CE Declaration of Performance or a third-party certification in respect of fire performance by an EU / NSAI-accredited third-party testing organization. Manufacturer's certification and warranties for a period of 15 years. 15.2. Timing: Before placement of orders Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410C Single Doorsets & Frame					
A	1,070 x 2,250mm high; FD30, Include for supply and fitting ironmongery Set KR1014	8	No			
B	1,070 x 2,250mm high; FD30, Include for supply and fitting ironmongery Set KC1002	2	No			
C	1,135 x 2,250mm high; FD30s, Include for supply and fitting ironmongery Set KC1002	4	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	1,270 x 2,250mm high; FD30s; with 2Nr 350mm diameter glazed vision panels, Include for supply and fitting ironmongery Set KC2002	4	No			
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: B, L, N, S, T, CJ, CO 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E60. 4.1.2. Smoke leakage: Sa Sa. 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 54 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: Overhead concealed 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: Circular vision panels - refer to architectural drawings 10.2. Side panel:: Fixed sideleaf - refer to architectural drawings 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops. 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410D					
	Single Doorsets & Frame					
B	420 x 2,010mm high; FD60s, Include for supply and fitting ironmongery Set KC4003	8	No			
C	1,070 x 2,250mm high; FD60s, Include for supply and fitting ironmongery Set KC1003	1	No			
D	1,135 x 2,250mm high; FD60s, Include for supply and fitting ironmongery Set KR1014	15	No			
E	1,135 x 2,250mm high; FD60s with 1Nr 350mm diameter glazed vision panels, Include for supply and fitting ironmongery Set KC1002	11	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Double Doorsets & Frame					
A	2,040 x 2,010mm high; double doorset; FD60s, Include for supply and fitting ironmongery Set KC4615	9	No			
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: U 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: NFR 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 120 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single Leaf - Double Action 8. Closer: N/A 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/415A.					
	Single Doorsets & Frame					
B	1,070 x 2,250mm high, Include for supply and fitting ironmongery Set KR1066	11	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: D 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E30. 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single leaf - Double action floor spring 8. Closer: Fire rated double action closer - tested to EN 1634-1 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/415B					
	Single Doorsets & Frame					
A	1,070 x 2,250mm high; FD30, Include for supply and fitting ironmongery Set KR1066	4	No			

	Description	Qty	Unit	Rate	€	c
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: O 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E30. 4.1.2. Smoke leakage: Sa. 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single leaf + Half leaf - refer to architectural drawings 8. Closer: Concealed overhead 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/420C					
	Leaf & Half Doorsets & Frame					
A	1,585 x 2,250mm high; FD30s, Include for supply and fitting ironmongery Set KC2702	1	No			

	Description	Qty	Unit	Rate	€	c
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: O 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E60. 4.1.2. Smoke leakage: Sa. 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufactuters's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: As clause 330 7. Door Operation: Single leaf + Half leaf - refer to architectural drawings 8. Closer: Concealed overhead closer 9. Architrave: As clause P20/120A 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/420D					
	Leaf & Half Doorsets & Frame					
A	1,557 x 2,250mm high; FD60s, Include for supply and fitting ironmongery Set KC2703	1	No			

	Description	Qty	Unit	Rate	€	c
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: S, T, W and Storage unit in B Apartment Type in West Block 3. Manufacturer: selo or equivalent 3.1. Product reference: Quadra+ Riser Door System or equivalent 4. Door Size: Custom - refer Schedule 5. Door construction: 1.2mm sheet steel with mineral wool core 6. Frame Type: Concealed (as Standard) 7. Finish: Powdercoated - RAL colour to architects specification. 8. Performance 8.1. Fire performance 8.1.1. Fire resistance: FD60S as per Fire Certificate Requirements To IS EN 13501-2, E60. E120 - Bi-directionally fire tested 8.1.2. Smoke leakage: Sa. 8.1.3. Smoke seal: Required 8.1.4. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 9. Frame: As clause 330 10. Door Operation: Single Leaf / Double Leaf - refer to architectural drawings 11. Closer: Concealed overhead 12. Beading: N/A 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: as set out in Architects Specification. 15.2 Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/430E					
	Double Doorsets & Frame					
A	1,740 x 2,250mm high; double doorset; FD60s, Include for supply and fitting ironmongery Set KC4615	3	No			
	Painting and Decorating					
	Prepare substrate, apply 1Nr coat Dulux MDF primer undercoat and 2Nr coats Dulux Trade Diamon Eggshell finish paint in colour to later Architects Selection; all in accordance with Architects Specification M60/175A to:					
	Door Frame;					
B	girth <300mm	390	m			
	Door Architrave,					
C	girth <300mm	779	m			
	Doors					
D	>300mm	466	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/8/1					
Page No. East/8/2					
Page No. East/8/3					
Page No. East/8/4					
Page No. East/8/5					
Page No. East/8/6					
Page No. East/8/7					
Page No. East/8/8					
Page No. East/8/9					
Page No. East/8/10					
Page No. East/8/11					
Page No. East/8/12					
Page No. East/8/13					
EL (32) INTERNAL WALL COMPLETIONS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
EL (33) & (34) FLOOR & STAIR COMPLETIONS					
INFORMATION					
This element of the work has been measured from the Architects Drawing Nos. 400, 401, 403, 500, 501, 502 and Architects Specification		Note			
This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
For detailed description of workmanship and materials see specification.		Note			
The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
Notes:					
1. The tenderer is required to provide and fix all fixings, supports etc. which may be necessary to complete the works.		Note			
2. "Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, Fourth Edition 2009, the Tenderer should note the following deviations at:		Note			
(a) grouting, drilling/forming holes in other construction for fixings deemed to be included within the referenced unit rate item		Note			
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	Balustrades Including Handrail					
	Balustrade; Purpose Made Balustrades Panels with vertical bars, to stairs Component material, grade and finish as delivered: - Guarding: - [Balustrade posts to be 50 x 10mm mild steel flats @ 100mm c/c, on mounting plate at base (typically 120mm dia), fixed to side of pre-cast stair structure. Posts typically 50x10mm each, with size and spacing of elements as noted on details. Max post spacing 3 steps, or 900mm. Posts to be bolted to side of precast stairs with M12 resin anchor fixings, finished with dome headed nut. Fixings to be to contractor design to suit loading requirements as required by Building Regulations. - Infill panel frames to be formed from welded mild steel flats, typically 40x8mm, with size and spacing of elements as noted on details. Note curved end panel frames. Panel infill within frames to be mild steel round sections, typically 15mm diameter, welded to frames and equally spaced within panel. Max gap within infill panels to be less than 100mm. Panel fixings to posts to have nylon spacers. Handrails:- Handrail to be 50mm dia Iroko, with flat bottom rebated to take a 30x6mm flat. - Handrail connection to posts as shown in details - mild steel round sections, typically 15mm diameter, bent to 90deg with a consistent radius, welded into the gap between the paired post flats prior to installation, and connected to the handrail by a steel plate recessed into a rebate in the handrail. Workmanship: - Generally, posts and balustrades to be made separately and separately installed on site (ie.not pre-welded together). Allow for tolerance of 3-5mm between connecting elements. No site welding will be accepted for pre-finished metalwork. Joinery: [To section Z10]. Metalwork: [To Z11 generally, finish to Z11/780]. Other requirements: [Finish to be PPC coated to a selected RAL colour. Steel to steel bolted fixings to be flat headed and countesunk, or finished with a dome headed nut - Contractor to ensure that all balustrading, including all connections, complies with BS 6399.]. All per Architects Drawings and Specification Section L30/550D					
	Balustrades & handrail; all as per Architects Specification L30/550D and in accordance with Architects Specification L30/107 and to meet design intent as indicated on Architects Drawings 400, 401, 403, 500, 501, 502; inclusive of all fixings, welding etc. complete					
A	balustrade; circa 1400mm high; horizontal	10	m			
B	balustrade; circa 1400mm high; raking	22	m			
C	e/o for bends	11	no			
D	e/o for ends	2	no			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Handrail					
	45mm diameter stainless steel handrail welded to stainless steel brackets fixed to blockwork wall					
A	Horizontal	19	m			
B	Raking	24	m			
C	e/o for bends	6	no			
D	e/o for ends, turned into wall	8	no			
	Painting					
	Prepare and apply polyester powder coat to BS6497 to a minimum thickness of 60 micron, on steel					
E	Balustrades (measured both sides)	87	m2			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
K	Testing		Item			
L	Surveys		Item			
M	Samples		Item			
N	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/9/1					
Page No. East/9/2					
Page No. East/9/3					
EL (33) & (34) FLOOR & STAIR COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (37) ROOF COMPLETIONS					
	GENERAL INFORMATION					
	For further details refer to Architects drawings and specifications.		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
	ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Metal Coverings					
	Lead Flashings					
	Apron flashing over glass canopies and statue rooflight; Milled Lead Sheet to BS 1178: LEAD - Thickness: 2.00 or 2.24 mm (Code 5). DIMENSIONS: - Lengths: Not more than 1500mm. - End to end joints: Laps of not less than 100mm. - Upstand: Not less than 75mm. - Cover to abutment: Not less than 100mm. FIXING: head fixed as clause 705; bottom fixed stainless steel clips at 300mm centres as clause 715. - Apron flashing over high profile patent glazing: Leadwelded capping over profile of glazing bare required. Painting flashings with 2 coats bitumastic paint; Alternative manufacturer's recommended detail may be acceptable. Submit proposals. all in accordance with the Works Requirements and in particular Architects drawing no`s. 124 and specification clause H71/410					
	Cover Flashings					
A	code nr. 5 lead; girth 300 - 450mm	8	m			
	Aprons					
B	code nr. 5 lead; girth 150 - 300mm; bends -1; dressing over glazing	8	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	GLAZING: Special Glazing					
	Smoke Vents					
	Thermally broken powder coated aluminium glazed rooflight / AOV fitted with electrical / electronic control mechanism and mounted on manufacturers kerb designed to be laid over builder upstand in reinforced concrete to engineers detail. Activating rams to be located in concealed pockets at each side of the louvre. Unit is to be supplied as a complete package incorporating all controls for activation, interlinking with Fire alarm / firemans switch, as well as passive ventilation control fitted with automatic closing if so signaled by externally mounted rain sensor. all in accordance with the Works Requirements and in particular Architects drawing no.124 and specification clause L10/490A					
A	ope size to achieve 1.00m2 of free opening area	1	nr			
B	Extra over for upstand kerbs	1	nr			
C	roof access ladderl (Internal); all in accordance with the Works Requirements and in particular Architects drawing no.124 and specification clause N25/131	1	nr			
	METALWORK: Non Structural - Composite Items					
	Fall Prevention System					
	8mm stainless steel cable system on posts as per N25 specification and drawings. Posts may deform in the event of a fall but must not come apart - i.e. must be fully welded with no internal spring or other active mechanisms. All in accordance with EN 795 for use with Personal Fall Protection Equipment (PFPE measured elsewhere); Systems located to work as fall restraint, design to allow for full fall arrest in case of misuse; if true fall arrest required include for appropriate Rescue System. Weathering by others. Product; Skyway (046 9241771) Continuous Fall Prevention System including anti-pendulum anchors for safe access to 100% of the roof. Tenderer to have € 6.50m specific Professional Indemnity Insurance. all in accordance with the Works Requirements and in particular Architects drawing no. 124 and specification clause N25/210A					
	Cable, support posts and anti-pendulum anchors; (including all weathering of support posts)					
D	layout as per Architects drawing no.124	57	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Personal Fall Protection Equipment (PFPE)					
	1 no. ful body Harness, 2 no. 2.0m long energy absorbing Lanyards, 1 no. removable transfastener					
A	sets	2	nr			
	Metalwork: Non-Structural					
	External Ladders					
	Roof-Pro or equivalent free standing pedestrian step-over system; in galvanised mild steel; with adjustable pivot and threaded bases; inclusive of 2nr stair flights and central landing complete with handrails					
B	To provide clearance over ducting and / or pipework runs on roof; circa 800mm high x 150mm wide	6	no			
	Aluminium fixed ladder; to AOV (External)					
	Hooped Access ladder;: 1. Aluminium. Consisting of 48.3mm (Size 8) stringers set 400mm apart with rungs at 250mm centres. 2. Locations and Design Intent: As indicated on the Design Drawings. 3. The works shall conform with BS 5395: Part 3, and BS EN ISO 14122 Part 1, Part 2, Part 3 and Part 4. 4. Ladder system shall have Walk Through and Parapet Stepover Platform handrails on each side to bridge the gap to the roof surface. 5. Self-closing gate: Provide a self-closing safety gate to aid the user on and off the top of the ladder. 6. Ladder shall have hooped protection enclosure from gantry to height above finished floor level as indicated on the Design Drawings. 7. Stays: Set at 2.4m centres with a cage commencing 2.5m from ground level 8. Treads shall be flat profile with anti-slip surface finish. 9. Allow for fixing of service tray's to framework where required. 10. Fitting and Fixings: In accordance with the manufacturer's instructions; all as per Achitects Specification Clause N25 131					
C	approx 2.5m long	1	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/10/1					
Page No. East/10/2					
Page No. East/10/3					
Page No. East/10/4					
EL (37) ROOF COMPLETIONS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
EL (41) WALL FINISHES EXTERNALLY					
GENERAL INFORMATION					
For further details refer to Architects drawings and specifications.		Note			
Location drawings for this Element are listed in the drawing registers.		Note			
It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
STONEWORK: Stone Cladding					
DESIGN RESPONSIBILITY: The Architects drawings and specifications are indicative of the design intent and define the performance criteria, the mandatory geometry of the exposed surfaces including joint positions, and detail the required principal materials and visible finishes. The Specialist Sub-Contractor shall be responsible for developing and completing the design in accordance with the above and the other contract documents, taking into account any additional criteria which, with his specialist knowledge, he believes are relevant. The Specialist should refer to the drawings prepared by Nicholas O`Dwyer Consulting Engineers which describe the primary building structure which will be the basis of the secondary steel design prepared by the Specilaist. The Specilaist can put forward alternatives for consideration by the Architect. Additionally any suggested solutions described on the Architects drawings shall not in any way relieve the Specialist from his responsibility for the design and construction of the whole of the works; all as per Architects Specification H51 10 - 660		Note			
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	Walls					
	Natural stonework cladding to East Block facade; SUPPORT STRUCTURE: Insitu conrete frame with blockwork infill; backing wall concrete blockwork. STONE SLAB STANDARD; standard to EN 1469: DENOMINATION; denomination to BS 12440; name; Irish Limestone; Petrological family Limestone; FACE DIMENSIONS; Face dimensions, length (l) x width (b): see Architects drawings; THICKNESS; minimum 40mm (subject to structural calculations);. COLOUR: Very Light Gray (N8) to Light Grey (N7); FINISH; sanded or dry honed; SAMPLES; samples to be provided; Finish: shotblasted. - Supplier: Submit proposals. - Quality: Free from vents, cracks, fissures, discolouration, or other defects deleterious to strength, durability or appearance. Before delivery to site, season thoroughly, dress and work in accordance with shop drawings prepared by supplier. FIXINGS: stainless steel fixings to BS8298-1 and 2; Contractor designed; all as per specification clause H51/230 230 and 305. JOINTS: - Type: sealant filled as clause 600. - Bond pattern: see drawings. - Width (nominal): 5mm external. - Profile: recessed. CAVITY WIDTH (nominal): see drawings - Air gap: 50mm. all in accordance with the Works Requirements and in particular Architects drawings and specification clause H51/110					
	< or = 300mm wide					
A	generally	75	m			
B	forming sill, per Architects Drawing 322 detail 15	5	m			
	> 300mm wide					
C	generally	132	m2			
	Extra over for					
	External angles					
D	generally	16	m			
	Labours					
E	Making good around obstructions and the like					
F	girth 300 - 1000mm	10	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	STONEWORK: Ancillaries to Natural Stonework					
	Vapour Control Layer					
	Vapour control layer fixed to concrete structure behind cladding; MANUFACTURER: Tyvek Dupont or equivalent, Product Reference Airguard A2 FR; REACTION TO FIRE; to EN 13501-1 A2-s1, D0; WATER VAPOUR TRANSMISSION PROPERTIES; to EN 1931 - 4900u; WATER TIGHTNESS (2 kPA;); to EN1928; THICKNESS 1.5mm; all in accordance with the Works Requirements and in particular Architects specification clause P10/310A					
	> 300mm wide					
A	generally	132	m2			
	Insulation					
	Insulation behind stone cladding; THERMAL INSULATION: Type - typical PIR Lambda Value 0.021 W/mK; below ground level DPC: XPS - Lambda value 0.033 W/mK. Certification. - Agrement Certificate. FACE SIZE; to suit bracket spacing. THICKNESS: To achieve requried U-value of 0.18 W/m2K . Note that maximum U-value of the wall element is 0.18W/mK, taking account of fixings, interfaces and local restrictions. JOINTS: Vertical joints must be staggered and tightly butted. No gaps and free from mortar and debris. JOINTS: - Vertical joints must be staggered and tightly butted with no gaps and free from mortar and debris; PLACEMENT; secure against face of inner leaf. - Residual cavity: Clear and unobstructed. - Joints between boards, at closures and penetrations: all in accordance with the Works Requirements and in particular Architects specification clause H51/110/10					
	Between new walls					
B	150mm thick board - fixed to concrete structure with proprietary positive expansion fixings	132	m2			
	STONEWORK: Ancillaries to Natural Stonework					
	Anti Graffiti Coating					
	Clear anti-graffiti matt finish coating (fluorine based copolymer); all in accordance with the Works Requirements and in particular Architects specification clause H51/110/12					
	< or = 300mm wide					
C	generally	75	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	> 300mm wide					
A	generally	132	m2			
	Flashings					
	ALUMINIUM: Coated sheet/ strip. - Alloy designation: EN AW-1199, 1080A, 1050A, 1200. - Temper: O or H12. - Finish: Polyester Powder Coated to standard non-metallic BS 4800 or RAL colour range, including RAL 9006 and RAL 9007 (colour TBC). PPC thickness: 60u. All as Z31. - Aluminium thickness: 3mm. DIMENSIONS: - Lengths: Not more than 2.0m, with end to end joints lapped not less than 100mm. - Cover to roofing upstand: Not less than 75mm, with bottom edge welted 15mm. FIXING: - Secret clip fixed to curtain wall stick system / parapet subframe. All to contractor's design. - End to end joints: butt jointed with epdm sealing strip under; external and internal corners should be welded and all welds ground down to provide a smooth and integral 3 dimensional profile. all in accordance with the Works Requirements and in particular Architects drawings and specification clause H72/420					
	Reveal Flashings					
B	generally	75	m			
	Sills					
C	generally	22	m			
	Cavity Barriers					
	Mechanical cavity barriers; MANUFACTURER: Rockwool Ltd or equivalent Frie Pro SP Firestop EN (SP FireStop EN 60; STANDARD; to BS EN 1366-4:2021; TYPE; Rigid; ; FACING; Metal foil laminate; FIRE PERFORMANCE; TO E1 60 to BS EN 13502-2; RECYCLED CONTENT; 20-25%; REACTION TO FIRE; EuroclassA1 Non Combustible; THICKNESS; 75MM; WIDTH; 1200mm; LENGTH 1000mm; COLOUR ; Blackall in accordance with the Works Requirements and in particular Architects Specification Clause P10/432A					
	150mm thick cavity					
D	horizontal	79	m			
E	vertical	122	m			

To Collection €

Description	Qty	Unit	Rate	€	c
Insulated Render Rendered external wall insulation system by Tradecraft Limited or equivalent. Reaction to Fire system performance in line with BS EN 13501-1: A2. Board adhesive:: Pariso Mince Caliso Adhesive Coat, to be applied either as a complete coverage to the insulation board or as a ribbon around the board and a minimum of 3 dabs across the centre line to give a minimum of 40% coverage once applied. Take care to ensure no adhesive encroaches between insulation boards to prevent the risk of thermal bypass to be applied no more than 15mm in thickness. Insulation: Mineral wool to BS EN 13162. Thermal conductivity:: 0.036 W/Mk. Board size: 1200 x 600mm. Density: 110 kg/m3. Minimum compressive strength: Compressive Strength 10 kPa. Method of fixing: Mechanical Fixing. Insulation - base plinth level: XPS insulation suitable for wet areas. Thermal conductivity:: 0.033W/mK. Mechanical fixing:: Rawlplug KI10 Masonry Anchor. Fixing type is hammer fixing with expansion pin. Length to be minimum of 135mm (insulation thickness + board adhesive thickness + existing render thickness + 35mm minimum embedment). Fixing length and quantity may change subject to pull out test results and wind loads for the building. Base coat:: Pariso Mince Maite to be applied 4 to 6mm. Ensure base coat is fully adhered to insulation, covers all fixing heads and all appropriate beads. Should the Pariso Mince Maite be required in two passes, ensure second pass is applied minimum 24 hours after the first.					

To Collection €

	Description	Qty	Unit	Rate	€	c
	Ensure IAVPC Mesh is no more on third in from the front line of Pariso Mince Maite base coat. Reinforcing Mesh: IAVPC Mesh. Mesh weight 160g/m2. Minimum edge overlap at joints 100mm. When installing, ensure it is encapsulated in the outer third of the Pariso Mince Maite base coat. At the corners of all opening install a mesh patch 300 x 300mm at 45 degrees to the main mesh layer. Install a mesh patch over all penetrations at 45 degrees to the main mesh layer ensuring a minimum 150mm edge distance from the patch to the penetration. For high impact areas install the following (no overlap at joints) prior to the application of the IAVPC Mesh. Primer:: Revlane+ Regulatuer: Acrylic dispersion priming coat, Colour as per decorative finish coat to be roller, brushed or spray applied ensuring 100% coverage of Pariso Mince Maite base coat in one coat. Coverage 0.25kg per m2. Allow 2 to 12 hours, depending on temperature and humidity, prior to the application of the finish coat. Decorative finish:: Revlane+ Siloxane Ignifuge. Grain size 1.6mm, Taloche Gros, Colour as per project design. To be applied using a plastic float and textured as per the sample reference panel. When applying it is important to keep a wet edge on the material. Coverage 8 to 10m2 per tub. Include for all necessary Beads/ trims & Base Track; Mill finished aluminium box base track. Length 2.5m All adjoining lengths to be connected using connection clips to facilitate line and level and linear expansion. All corners to be mitred, not butt jointed. Fixed at maximum 300mm centres back to the substrate. Include also for all necessary Gun applied sealant Sika EB25 to be applied as a surface sealant at all junctions, UpVC Frame seal bead with mesh wing etc complete; All in accordance with the Works Requirements and in particular Architects Specification Clause M21/210					
	To Blockwork - To achieve U-Value of 0.17W/m2K					
A	> 300mm wide	45	m2			
B	< 300mm wide to reveals	6	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/11/1					
Page No. East/11/2					
Page No. East/11/3					
Page No. East/11/4					
Page No. East/11/5					
Page No. East/11/6					
Page No. East/11/7					
EL (41) WALL FINISHES EXTERNALLY **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (42) WALL FINISHES INTERNALLY					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 120-123, 161, 162, 480-487, 491-499 and Architects Specification		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
				To Collection €		

Description	Qty	Unit	Rate	€	c
Stud Partitions (Fire rated where specified)) **K110115A: Metal stud partition system REI60** 1. Description: 60 min fire rated partition for use forming compartment walls. 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: Allow for weight of ceramic tiles, as section M40 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: 60 minutes fire resistance for load bearing capacity, insulation and integrity in accordance with EN 1364-1:1999/EN 1365-1:2012/EN1365-2:2000 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: The integrity of partition should not be breached to allow for the installation of services, e.g. pipes, wires, flues etc except where necessary to allow services pass through these compartment walls. Where services pass through these compartment walls or floors, they should be contained in fire-resistant ducts, and the opening of such ducts should be protected and fire-stopped. Baffle boxes are not accepted. 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 53 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: As recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: Two layers 15 mm plasterboard as clause 404 each side - Unless otherwise recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12. Include for flexible Fire Resistant Sealant applied around both sides of perimeter to boarded sides of partition framework to achieve applicable required fire rating. All per Architects Specification Section K10					
A Height circa 2,850mm	19	m			
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Three -way intersection;	32	No			
B	Abutting other finishes	32	No			
C	Top of partition system comprising of 1layer of 50 x 25mm deep fire batt insulation, 1 layer of 15mm thick x 100mm high Glasroc F Firecase plasterboard each side; continuous intumescent fire sealant to achieve stated fire rating requirements; airtight/acoustic sealant to each side of plasterboard at junction with concrete soffit to comply with required Acoustic rating of partition type; inclusive of all required fixings etc. complete and as per typical details on Architects Drawing 510. All to achieve 60/60 fire rating	19	m			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
D	Structural ope 1070mm wide x 2250mm high (Single doors)	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	K10/115B. Metal stud partition system REI30 1. Description: 30 min fire rated partition for use forming protected corridors. 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: All services penetrations and socket boxes are to be sufficiently firestopped as per Section P12 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 43 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: One layer 12.5 mm Wallboard each side - Unless otherwise recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12					
A	Height circa 2,850mm	30	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Angles to partitions;	4	No			
C	Three -way intersection;	12	No			
D	Abutting other finishes	8	No			
E	Grounds to support sanitary ware, etc.		Item			
F	Grounds to support kitchen fittings, etc.		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
A	Structural ope 1070mm wide x 2250mm high (Single doors)	4	No			
B	Structural ope 725mm wide x 2250mm high (Single doors)	4	No			
	K10/115C. Metal stud partition system REI30 + MR					
	1. Description: 30 min fire rated partition for use forming protected corridors where one side of partition faces wet / humid environment 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required. 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: All services penetrations and socket boxes are to be sufficiently firestopped as per Section P12 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: One layer 12.5 mm plasterboard as clause 403 to one side + one layer 12.5mm wallboard As recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12. Include for flexible Fire Resistant Sealant applied around both sides of perimeter to boarded sides of partition framework to achieve applicable required fire rating. All per Architects Specification Section K10					
C	Height circa 2,850mm	13	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Three -way intersection;	4	No			
B	Abutting other finishes	4	No			
C	Top of partition system comprising of 1layer of 50 x 25mm deep fire batt insulation, 1 layer of 15mm thick x 100mm high Glasroc F Firecase plasterboard each side; continuous intumescent fire sealant to achieve stated fire rating requirements; airtight/acoustic sealant to each side of plasterboard at junction with concrete soffit to comply with required Acoustic rating of partition type; inclusive of all required fixings etc. complete and as per typical details on Architects Drawing 510. All to achieve 30/30 fire rating	13	m			
D	Grounds to support sanitary ware, etc.		Item			
E	Grounds to support kitchen fittings, etc.		Item			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
F	Structural ope 1070mm wide x 2250mm high (Single doors)	4	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	K10/115D. Metal stud partition system NFR					
	1. Description: non fire rated partition for general use demising rooms 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: Class B - s3-d2 6. Acoustic performance 6.1. Standard: IS EN ISO 717 6.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 7. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 8. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 9. Resilient layer: As recommended by board manufacturer to meet specified performance 10. Linings: One layer 12.5 mm Wallboard each side - Unless otherwise recommended by board manufacturer to meet specified performance 11. Finishing: Skim coat plaster as clause 680 11.1. Primer/ Sealer: Primer to painted areas 11.2. Accessories: Beads/ stops as recommended by board manufacturer					
A	Height circa 2,850mm	60	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Angles to partitions;	8	No			
C	Three -way intersection;	30	No			
D	Abutting other finishes	20	No			
E	Fair ends	33	No			
F	Grounds to support sanitary ware, etc.		Item			
G	Grounds to support kitchen fittings, etc.		Item			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
H	Structural ope 1070mm wide x 2250mm high (Single doors)	3	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	K10/115E. Metal stud partition system NFR + MR					
	1. Description: non fire rated partition for general use demising rooms where one side of partition faces wet / humid environment 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: Class B - s3-d2 6. Acoustic performance 6.1. Standard: IS EN ISO 717 6.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 7. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 8. Insulation: 50mm acoustic roll or as recommended by board manufacturer to meet specified performance 9. Resilient layer: As recommended by board manufacturer to meet specified performance 10. Linings: One layer 12.5 mm plasterboard as clause 403 to one side + one layer 12.5mm wall board As recommended by board manufacturer to meet specified performance 11. Finishing: Skim coat plaster as clause 680 11.1. Primer/ Sealer: Primer to painted areas 11.2. Accessories: Beads/ stops as recommended by board manufacturer					
A	Height circa 2,850mm	66	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Three -way intersection;	30	No			
C	Abutting other finishes	26	No			
D	Grounds to support sanitary ware, etc.		Item			
E	Grounds to support kitchen fittings, etc.		Item			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
F	Structural ope 1070mm wide x 2250mm high (Single doors)	15	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	K10/115F: Metal stud partition system REI60 Shaftwall 1. Description: 60 min fire rated partition for use forming compartment walls where access is available to one side only during construction. 2. Partition type: Shaft wall - 2 x 12.5mm Gyproc fireline to room side and Gyproc coreboard between studs secured by gypframe retaining channel. 25mm isover acoustic roll in cavity 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab & Existing ribbed slabs 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: Allow for weight of ceramic tiles, as section M40 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: The integrity of partition should not be breached to allow for the installation of services, e.g. pipes, wires, flues etc except where necessary to allow services pass through these compartment walls. Where services pass through these compartment walls or floors, they should be contained in fire-resistant ducts, and the opening of such ducts should be protected and fire-stopped. Baffle boxes are not accepted. 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 53 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: As recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: Two layers 15 mm plasterboard as clause 404. - Unless otherwise recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12					
A	Height circa 2,850mm	47	m			

	Description	Qty	Unit	Rate	€	c
A	Top of partition system comprising of 1layer of 50 x 25mm deep fire batt insulation, 1 layer of 15mm thick x 100mm high Glasroc F Firecase plasterboard each side; continuous intumescent fire sealant to achieve stated fire rating requirements; airtight/acoustic sealant to each side of plasterboard at junction with concrete soffit to comply with required Acoustic rating of partition type; inclusive of all required fixings etc. complete and as per typical details on Architects Drawing 510. All to achieve 60/60 fire rating	47	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Three -way intersection;	40	No			
C	Abutting other finishes	56	No			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
D	Structural ope 500mm wide x 2250mm high (Single doors)	16	No			
E	Structural ope 1070mm wide x 2250mm high (Single doors)	16	No			
F	Structural ope 2000mm wide x 2250mm high (Double doors)	16	No			
	K10/422: Gypsum fibre board (reduced water absorption) Tilebacker H 1. Type: A plasterboard with water resistance properties suitable as a tile backing board in areas subject to high levels of moisture, such as kitchens, bathrooms, shower cubicles and wet rooms 2. Manufacturer: Gyproc OR Equivalent 2.1. Product reference: Glasroc H TILEBACKER OR Equivalent 3. Thickness: 12.5 4. Shear strength: NPD to EN 15283-1: 2008 +A1: 2009 5. Reaction to fire: A1 to EN 15283-1: 2008 +A1: 2009 6. Water vapour resistance factor: 10 to EN 15283-1: 2008 +A1: 2009 7. Thermal conductivity: 0.3W/mK to 8. Other characteristics: EN 15283-1: 2008 +A1: 2009 9. Exposed surface and edge profiles: Clean and undamaged. Suitable to receive specified finish					
G	Height circa 550mm (side of baths)	21	m			
H	Height circa 1,050mm	28	m			
J	Height circa 2,850mm	20	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Shelf to top of low level wall comprising of 8mm toughened glass on plywood backer, inclusive of grounds, fixing, silicone sealant, all as per Architects Drawing 492, 493 & Specification					
A	Circa 260mm wide	28	m			
	K10/145A; Wall lining system (metal studs) Acoustic & services					
	1. Description: Independent wall lining system to provide acoustic seperation and accomodate building services. 2. Partition type: 30mm Gypframe lining channel - or equivalent 2.1. Centres: 300mm unless otherwise instructed as per manufacturers guidelines to achieve require performance 3. Services zone depth (between studs): 50mm 4. Wall lining height: 3000mm 4.1. Intermediate bracing: As per manufacturers guidelines to achieve require performance 5. Head condition: 5.1. Deflection allowance: 25mm maximum 6. Structural performance 6.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 6.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 6.3. Other requirements: Allow for weight of ceramic tiles, as section M40 7. Fire performance 7.1. Reaction to fire: Class B - s3-d2 7.2. Fire resistance of complete wall lining assembly: NFR 8. Acoustic Performance: 8.1. Standard: IS EN ISO 717 8.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1:: 59 9. Metal framing: Type recommended by board manufacturer to complete the partition system and achieve specified performance. 10. Insulation: glass mineral wool insulation infill batt 10.1. Recycled content: 50% (minimum) to BS EN ISO 14021 11. Resilient layer: As recommended by board manufacturer to meet specified performance 12. Linings: One layers 15 mm plasterboard as clause 401. - Unless otherwise recommended by board manufacturer to meet specified performance 13. Finishing: Skim coat plaster as clause 680 13.1. Primer/ Sealer: Primer to painted areas 13.2. Accessories: Beads/ stops as recommended by board manufacturer					
B	Height circa 2,850mm	70	m			
C	Grounds to support kitchen fittings, etc.		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Dry Lining					
	One layer of 12.5mm plasterboard; fixed to 50mm gypframe lining channels; fixed to blockwork / concrete walls. Plasterboard finishes: Skimmed (refer to Section M20) as indicated on the Design Drawings. All as before described and in accordance with Architects Specification K10					
A	Height circa 2,850mm	81	m			
B	Extra over for 50mm thick glass mineral wool insulation infill batt (tbc if requried)	231	m2			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
C	Structural ope 1000mm wide x 2250mm high (Single doors)	4	no			
D	Structural ope 1270mm wide x 2250mm high (Single doors)	4	no			
	Pipe Casing					
	Composite Item					
	Boxing to pipework, vertical, Include for Softwood framework inclusive of any additional required supports. Type High density general purpose. Manufacturer/ Supplier: contractor's choice. Fire rating: Class 0 surface spread of flame. Finish: 3mm skim coat sanded and primed to receive painting to match walls. Linings: 1 layer 12.5mm gypsum and cellulose fibre high impact board over 1 layer 12.5mm plasterboard with high density acoustic core. Edges: Square. Fixing to supports: as per manufacturers instructions. 15mm shadow gap to all junctions with contrasting finishes. Include for filling cavity with compacted mineral wool insulation. Include also for all required sealing to achieve stated fire resistance					
	To achieve 60min fire resistance					
E	800 x 300mm; 4 sided boxout (vertical height measured)	52	m			
F	750 x 250mm; 2 sided boxout (ditto)	43	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	In-Situ Finishes					
	1. Description: Wet Plaster finish internally 2. Substrate: Blockwork 2.1. Preparation: Recessed Joints 3. Mortar:: Ready-mised 4. Sand:: To BS EN 13139 5. Grading: : 0/2 to 0/4 (CP or MP); category 2 fines 6. Lime:: Nonhydraulic to BS EN 459-1, type CL 90S 7. Undercoats 7.1. Lime:Sand:: Ready-mixed to BS 4721 7.2. Sand: : To BS 1199, type A 7.3. Mix (cement: lime:sand): 1:1:6 7.4. Thickness (excluding dubbing out):: 12mm (first undercoat) 8. Final coat 8.1. Final Coat:: Gypsum plaster to BS EN 13279-1 8.1.1. Manufacturer: Submit proposals 8.1.2. Thickness: : 3mm 8.1.3. Finish: Smooth 8.2. Total zone allowed:: 15mm 8.3. Finish: Roughcast. 9. Accessories: Stainless steel beads as clause 630. Sample required for approval 10. Other Requirements:: Prepare 1m x 1m sample area of finish for approval before proceeding. All as per Architects specification clause M20/210					
	Walls					
A	> 300mm	1184	m2			
B	< 300mm in reveals	750	m			
	Sundries; Beads					
	Stainless steel or equal approved					
C	angle beads	750	m			
D	stop beads	750	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Tile, Slab and Mosaic Finishes					
	M40/110A Tiling Internal walls - Bathroom					
	1. Description: Calibrated modular tiles to EN 12057 2. Location: Bathrooms 3. Setting out: Bath surround - 2.0 meters above floor level over three sides of bath WHB splashback - 600 x 300mm 4. Tiles: 4.1. Colour: White 4.2. Finish: Flat glazed ceramic - with glazed edge 4.3. Size: 150x150 mm 4.4. Thickness: 5.5mm 5. Background/ base: MR plasterboard (refer to K10.403) 5.1. Preparation: Mapei MAPEGUM WPS or equivalent waterproof tanking system including Mapei MAPEBAND or equivalent compatible tanking tape at internal corners, joints, floor/wall junctions, pipe penetrations etc 6. Bedding: Thin bed adhesive as clause 651 6.1. Adhesive: to EN 12004: C2TES1 Mapei Keraflex White or equivalent 7. Joint width: 2-3mm subject to tile size 8. Grout: Mapei Keracolour FF or equivalent flexible grout 8.1. Type/ classification: To EN 13888 CG2 WA 8.2. Admixture: n/a 9. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385-3 2007 Section 6.8: around perimeters, wall/ floor junctions and up to maximum 8m bay width. 10. Accessories: . Quadrant bead at all exposed edges . Proprietary seal at junction between bath and tiling. . tiled access hatches as specified in K10.430					
A	>300mm	141	m2			
B	<300mm	2	m			
	Extra over for;					
C	Neatly cutting and fitting around obstructions		Item			
	Accessories					
D	Square edged satin finish aluminium edge trims	84	m			
E	Square edged satin finish aluminium external corner trims	47	m			

	Description	Qty	Unit	Rate	€	c
	M40/110B Tiling Internal walls - Kitchen					
	1. Description: Calibrated modular tiles to EN 12057 2. Location: Kitchen splashback 3. Setting out: 600mm high above worktop level 4. Tiles: 6.1. Adhesive: to EN 12004: C2TES1 Mapei Keraflex Maxi S1 or equivalent C2TES1 flexible adhesive 7. Joint width: 2-3mm subject to tile size 8. Grout: Mapei Keracolour FF or equivalent flexible grout 8.1. Type/ classification: To EN 13888 CG2 WA 8.2. Admixture: n/a 9. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385-3 2007 Section 6.8: around perimeters, wall/floor junctions and up to maximum 8m bay width. 10. Accessories: . glazed edge for sills and corners oprietary seal at junction between tile and worktop 4.1. Colour: White 4.2. Finish: Flat gloss, glazed ceramic with glazed edge 4.3. Size: 150 x 150 mm 4.4. Thickness: 6mm 5. Background/ base: Tilebacker board (refer to K10.410) 5.1. Preparation: Primer to manufacturer's instructions 6. Bedding: Thin bed adhesive as clause 651					
A	>300mm	34	m2			
	Extra over for;					
B	Neatly cutting and fitting around obstructions		Item			
	Accessories					
C	Square edged satin finish aluminium edge trims	127	m			
D	Square edged satin finish aluminium external corner trims	30	m			
	Painting and Decorating					
	1. Manufacturer: Dulux D154 OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved 3. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent 4. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent. All as per Architects Specification M60/110A					
E	>300mm	1815	m2			
F	<300mm	531	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	1. Manufacturer: Dulux OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent 3. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film) 4. Finishing coats: Two coats Dulux Bathroom Plus. All as per Architects Specification M60/110B					
A	>300mm	206	m2			
	Access Hatches					
	1. Manufacturer: Submit proposals 2. Type: Concealed frame 2.1. Sizes: To suit tiling joints - See elevations 3. Frame: Galvanised steel, polyester powder coated 4. Panel: galvanised steel, polyester powder coated with concealed pivot 5. Lock: magnetic catch 6. Finish: Flush tiled finish. Inclusive of wall tiling per M40/110A to match wall tiling pattern. All per Architects Specification K10/430					
B	300 x 300mm	34	No			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. East/12/16					
EL (42) WALL FINISHES INTERNALLY **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
EL (43) FLOOR FINISHES					
INFORMATION					
This element of the work has been measured from Architects Drawings 120-123, 140-143, 480-487, 491-499 and Architects Specification		Note			
This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
For detailed description of workmanship and materials see specification.		Note			
The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
Notes:					
1. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes					
2. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense					
3. The Contractor is solely responsible for ensuring that the concrete floor slabs are sufficiently dried out before any floor finishes are laid.					
4. The Contractor is to include for any required protection of Acoustic Underlay and Floor Finishes prior to handover					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK: Boarding and Second Fixings					
	1. Quality of wood and fixing: To BS 1186-3. 1.1. Species: Contractor submittal 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: To match existing historic skirting in Convent building 4.1. Finished size: Nominal 250mm high x 19mm - to match existing 5. Finish as delivered: Paint finish 6. Fixing: screwed and pelleted or as noted on the drawings.					
A	250 x 19mm	928	m			
	Matwell to Entrances					
	High traffic entrance matting system; Contractor to submit proposals to Architects approval Arrangement: Inset internal. Material: PVC scraper wipers on aluminium base. Pattern: Open cell. Colour: Charcoal. Integral accessories: Aluminium matwell frame.					
B	size overall 1200mm x 2200mm wide	1	Nr			
	SHEET FLOORING					
	Acoustic Underlay					
	1. Description: Acoustic underlay 2. Material: Two-layer compound with rubber granules and rubber mat with PU elastomer bonding 3. Performance: To achieve TGD E requirement for Sound on separating floors - Weighted reductionin impact sound pressure level of not less than 17dB when measured in accordance with IS EN ISO 717-2 - when combined with overall floor buildup 4. Product: Damtec estra or Equivalent 5. Location : As shown on architect's floor details - To tiled areas generally 6. Background/ base: In situ concrete or levelling compound as required					
	Laid on concrete base					
C	To floors > 300mm wide	881	m2			
	Smoothing / Levelling Underlayment Compound					
	Levelling Compound					
	Cement based, all as per Architects Drawings and Architects Specification.					
	Laid on concrete base					
D	To floors > 300mm wide	881	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Should the substrate not achieve the required humidity level (noted under Specification clause M50/150A) prior to laying of the underlay, prepare and apply Epoxy Resin Damp Proof Membrane as per Specification Clause M50/460, inclusive of primer where necessary and laid in two coats where necessary in accordance with the Manufacturers Instructions and all as per Architects Drawings and Architects Specification					
	Laid on concrete base					
A	To floors > 300mm wide	881	m2			
	Sheet Flooring					
	Linoleum flooring all as per Specification M50/150B; 4mm thick; Colour and pattern - to be selected by Architect; all in strict accordance with the Manufacturers Instructions and Specification Section M50					
B	>300mm	630	m2			
	Vinyl flooring all as per Specification M50/150A; 2mm thick; Colour and pattern - to be selected by Architect; all in strict accordance with the Manufacturers Instructions and Specification Section M50					
C	>300mm	25	m2			
	Carpet					
	1. Manufacturer: Tretford OR Equivalent 1.1. Product reference: Interlifr OR Equivalent 2. Standard: to IS EN 14041 3. Location: Carpet tiles to offices and staff accomodation 4. Base: Existing concrete slab / Raised access floor on third floor 4.1. Preparation: As clause 420 5. Underlay: Bonded 6. Properties 6.1. Reaction-to-fire classification: To BS EN 13501-1, Class Bfl 6.2. Type: Carded fibres formed into a continuous corrugation and bonded to a 100% postconsumer recycled PET backing. 6.3. Composition: Pile composition is 70% undyed goat hair and 30% nylon 6.4. Classification to BS EN 1307 6.4.1. Levels of use class: 33 6.4.2. Luxury rating class: LC2 6.5. Colour/ pattern: tbc 7. Method of laying: full spread glued or installed using tack strips. All adhesive should be free of solvents and VOC. All as per Architects Specification M50/130A					
D	>300mm	114	m2			

	Description	Qty	Unit	Rate	€	c
	Sundries					
	Separation Strips					
A	Brushed stainless steel edge trim as CAT SSE or equivalent, mechanically fixed in accordance with Manufacturers instructions and per Architects Specification M50	104	m			
	FLOOR, WALL & CEILING FINISHES: Tile, Slab & Mosaic Finishes					
	Porcelain tiling as per Specification M40/110C; 150mm x 150mm x 7.5mm floor tile; Colour - to be selected by Architect; adhesive fixed onto acoustic underlay (underlay elsewhere measured); grouted joint width 2-3mm; all in strict accordance with the Architect's Finishes Schedule and Specification Section M40					
	Floors					
B	> 300mm	80	m2			
	Insulation (Air tightness)					
	Description: Spunbonded polypropylene composition with polyolefin coating with non-woven fleece fabric and acrylic and butyl self-adhesive strips, used to provide an internal airtight seal.					
C	to wall / floor junction	420	m			
	PAINTING & DECORATING: Painting					
	1. Description: Purpose specific 2 or 3 part coatings with integral slip resistance coefficient >12 2. Manufacturer: Submit proposals 3. Surfaces: power floated concrete 3.1. Preparation: ensure base is dry and free from surface contamination 4. Initial coats: elastomeric levelling compound 4.1. Number of coats: as per manufacturer's guidelines 5. Finishing coats: May include carborundum flakes OSA hand scattered to ensure compliance with Slip resistance coefficient requirements 5.1. Number of coats: as per manufacturer's guidelines; and all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/180					
	Floors					
D	> 300mm	32	m2			

	Description	Qty	Unit	Rate	€	c
	1. Manufacturer: Dulux system D1213 OR Equivalent 2. Surfaces: new interior hardwood and non resinous softwood 2.1. Preparation: New wood should be ideally preservative impregnated, see BS 5268 and BS 5589. Clean to ensure free from dirt and grease etc. Remove oils from surface of wood by wiping with Dulux thinner 41 or White spirit. Abrade to remove sharp edges and any raised grain. Treat knots and resinous areas by removing resin and applying a thin coat of Dulux Knotting solution, serious troublesome knots should be cut out and replaced with sound wood. Ensure all surfaces are fully dry before proceeding. 3. Initial coats: one coat Dulux MDF primer undercoat thinned 1 to 5 as manufacturers recommendations 4. Finishing coats: Two coats Dulux Trade Diamond Eggshell Finish					
	General Surfaces					
A	girth not exceeding 300mm; skirtings	928	m			
	Drainage					
	Shower / Floor Gully					
B	Manufacturer: Submit proposals. 1. Product reference: Submit proposals. B. Floor finish: Refer to the Design Drawings. C. Body type: Trapped gully. 1. Material: Stainless steel grade 1.4301 (AISI 304). 2. Grating/ cover: 3. Type: Flat. D. Material: 150 x 150mm grille, stainless steel grade 1.4301 (AISI 304) satin finish, screw fixed. E. Outlet: Type and direction to suit pipework. F. Accessories: S-trapped body. Clamping ring not required. Side inlet not required.include for breakout of concrete floor and making good after. Include also for neatly finishing floor finish to gulley, etc. complete. all per architect's drawings and Specification.	15	No			
C	Metal vertical combination outlet/cover for flexible sheet flooring with stainless steel clamp and plain style cap. By ACO or equal and approved. 1. Floor finish: As indicated on the Design Drawings. 2. Body type: Trapped gully. a. Material: Aluminium. 3. Grating/ cover: a. Type: Flat. b. Material:stainless steel grade 304 satin finish, screw fixed. c. Cover Fixing: Anti-tamper mechanical fixings. 4. Outlet: Type and direction to suit pipework. 5. Accessories: S-trapped body. Clam ping ring not required. Side inlet not required. include for breakout of concrete floor and making good after. Include also for neatly finishing floor finish to gulley, etc. complete. all per architect's drawings and Specification.	3	no			

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. East/13/5					
Page No. East/13/6					
EL (43) FLOOR FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (44) STAIRS FINISHES					
	INFORMATION					
	This element of the work has been measured from the Architects Drawing Nos. 406, 407, 408 and Architects Specification		Note			
	This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
	For detailed description of workmanship and materials see specification.		Note			
	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Preparation					
A	The subfloor to be smooth, clean, free from grease and dirt and in accordance with BS 8203 or DIN 18 365. Seams and cracks in cementitious subfloors to be repaired with proprietary crackfiller, trowel or putty-knife applied. Seams and cracks in high porosity and anhydrite subfloors to be precoated with proprietary filler compound. Seams and cracks in cementitious subfloors to be repaired with proprietary fast setting repair mortar, trowel or putty-knife applied. All as per Architects Specification.	50	m2			
	Levelling Compound					
	Cement based, all as per Architects Drawings and Architects Specification.					
	Laid on concrete base					
B	To floors / landings > 300mm wide	50	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Floor Coating					
	1. Description: Rubber flooring - stairtread and tiled format 2. Manufacturer: Interface or Equivalent 2.1. Product reference: Norament 926 Grano 3. Location: Refer Architectural Drawings 4. Base: : In situ or precast concrete with levelling compound as required 5. Slip potential 5.1. Slip resistance value (SRV) (minimum)/ pendulum test value (PTV) (minimum) to 7976-1, -2 and 03: 36+ 5.2. Surface roughness (Rz) (minimum) to BS 1134: R9: R9 6. Width: 1004 x 1004 7. Thickness: 3.5 mm. 8. Colour and pattern: Allow for full range of colours 9. Residual indentation (to EN-ISO 24343-1): .0.2 mm. 10. Castor chair continuous use (to ISO 4918/EN 425): Suitable for office chairs with castors. 11. Reaction to fire (to EN 13501-1): Cfl-s1, G, CS. 12. Adhesive: to manufacturer's recommendations (and primer if recommended by manufacturer) 13. Stair nosings: Use stair tread format on steps with integrated nosing and signal strips - colours to be confirmed 14. Verification: 14.1. Submittals: . Manufacturer's datasheets, DOP & evidence of CE marking . Physical samples 14.2. Timing:: Before placement of orders. All as per Architects Specification M50/150C					
A	Landings; >300mm	50	m2			
B	Treads; 300mm wide	67	m			
C	Extra over for alternate colour to top and bottom stair treads	15	m			
D	Risers; <300mm	67	m			
	Pedestrian Bars					
E	Provide textured vinyl flooring (dimpled, raised, etc) to match at the top and bottom of steps to comply with Part M Building Regulations. All as per manufacturers recommendations	15	m			
	Nosing					
F	Aluminium bullnose double channel slip resistant nosing; 89 x 56mm; all as per Architects Specification	67	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Skirting					
	1. Quality of wood and fixing: To BS 1186-3. 1.1. Species: Contractor submittal 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: To match existing historic skirting in Convent building 4.1. Finished size: Nominal 250mm high x 19mm - to match existing 5. Finish as delivered: Paint finish 6. Fixing: screwed and pelleted or as noted on the drawings.					
A	250 x 19mm	61	m			
B	Ditto last; to profile of steps	26	m			
C	300 x 19mm, to edge of landings	19	m			
D	Ditto last, raking, to edge of stairflight (stringer) to profile of steps	26	m			
	Wall Finishes					
	1 layer 15mm thick plasterboard with 3mm skim coat fixed to 50mm gypframe lining channels @ 300mm c/c fixed to blockwork wall (blockwork measured elsewhere)					
E	> 300mm	196	m2			
F	Extra over for 50mm thick glass mineral wool insulation infill batt (tbc if requried)	196	m2			
G	< 300mm	45	m			
	Sundries					
H	Stainless steel angle beads fixed to blockwork.	45	m			
J	Stainless steel stop beads fixed to blockwork.	45	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Ceiling Finishes					
	Soffit of roof slab					
	1. Description: Suspended ceiling system for use generally with gysum plasterboards. 2. Standard: To IS EN 13964 3. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking 4. Lining board: 12.5mm plasterboard as clause 401 generally 12.5 mm plasterboard as clause 403 for use in bathrooms and other wet /humid environments as inidicated on architectural drawings. 4.1. Finishing: Skim coat plaster as clause 680 4.1.1. Primer/ Sealer: Primer to painted areas. Type recommended by lining board manufacturer for vapour control in in bathrooms. 4.2. Accessories: Beads/ stops as clause 692 5. Suspension system: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. 5.1. Grid type: Double with primary channel. 5.2. Hangers: Type recommended by board manufacturer 5.2.1. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specifed on architectural drawings. 6. Access units: Required as clause 431 - As indicated on architectural drawings 7. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications 8. Other requirements: 9. System performance 9.1. Standard: To IS EN 13964 9.2. Structural: The ceiling system must safely support all anticipated loads including services fittings. 9.2.1. Uniformly distributed load (maximum): 0.6 kN/m2 9.2.2. Additional loads/ pressures: luminaires and other M+E fittings-refer to M+E drawings and data sheets to be provided by specialist contractors 9.2.3. Deflection of grid between points of support (maximum): 0.0025 x span. 9.3. Fire performance 9.3.1. Reaction to fire: Class B - s3-d2 9.4. Airborne sound insulation (complete floor and ceiling assembly) 9.4.1. Weighted sound reduction index, Rw (minimum), to BS EN ISO 717-1: 50 dB. All in accordance with Architects Specification K10/215					
A	>300mm	18	m2			
	15mm thick plasterboard, fixed to soffit of stairs inclusive of proprietary metal channels, fixings, sealing, 3mm skim coat of finishing plaster, complete					
B	>300mm wide; <150mm depth (soffit of landings)	33	m2			
C	>300mm wide; <150mm depth; sloping (soffit of stair flights)	24	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	1 layer 15mm fireline board on and including 50 x 40mm softwood battens, inclusive of all required fixings, framing, trims, sealing, 3mm coat of finishing plaster, complete					
A	> 300mm wide; vertically to cheeks of light shafts	11	m2			
	Accessories					
B	Perimiter trim to form shadow gap	18	m			
	Painting					
	1. Manufacturer: Dulux D154 OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved 3. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent 4. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent					
C	To stairwell walls	196	m2			
D	<300mm	45	m			
E	To stairwell ceiling	18	m2			
F	To soffit of raking stairflights	24	m2			
G	To soffit of landings	33	m2			
	Background surfaces to be prepared in accordance with specification M60; apply (1) initial coat of Wood Primer; (2) undercoats; (1) finishing coats of Gloss Paint; Colour - to be selected by Architect from sample colour range; and all in strict accordance with the Architects Finishes Schedule and per Specification Section M60					
H	Skirtings, girth <300mm	61	m			
J	Ditto last; to profile of steps	26	m			
K	300 x 19mm, to edge of landings	19	m			
L	Ditto last, raking, to edge of stairflight (stringer) to profile of steps	26	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Prepare substrate and apply two coats, brush applied or spray applied Facael Oleo or equivalent, water proof and dust proofprotection available from Ethical Coatings Ltd , Dublin or equivalent; in accordance with the manufacturers instructions; to all exposed concrete surfaces to provide a clean , non staining, water repellent, vapour permeable seal to the surface					
A	Edge of landings	6	m			
B	Edge of stairflights	20	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/14/1					
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Page No. East/14/4					
Page No. East/14/5					
Page No. East/14/6					
EL (44) STAIRS FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (35) & (45) SUSPENDED CEILINGS & FINISHES					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 120-123, 140-143, 480-487, 491-499 and Architects Specification		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
	Floor Wall & Ceiling Finishing: Suspended Ceilings					
	NOTES:					
E	1. The Tenderers attention is drawn to the fact that the rates for suspended ceilings should include for all perimeter members to columns, wall projections or the like; rates are to include for all fixings to complete the works		Note			
F	2. The Contractor is advised that the following measurement and descriptions are to be read in conjunction with the Architects Drawings and Specifications listed as tender documents within the Preliminaries Section of the Bill of Quantities		Note			
G	3. Work areas not exceeding 4.0 sq.m on plan have not been measured separately and Contractors shall make due allowance in their rates		Note			
H	4. Rates are to include for all labours in connection with the following work including accurately setting out and fitting of suspended ceilings around surface features		Note			
	Rates for suspended ceilings are to include for:					
	a) Notching and cutting around columns or the like or at the edge of the works unless measured separately					
	b) Any items necessary for the satisfactory completion of the works					
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Suspended Ceiling System					
	1. Description: Suspended ceiling system for use generally with gysum plasterboards. 2. Standard: To IS EN 13964 3. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking 4. Lining board: 12.5mm plasterboard as clause 401 generally 12.5 mm plasterboard as clause 403 for use in bathrooms and other wet /humid environments as inidicated on architectural drawings. 4.1. Finishing: Skim coat plaster as clause 680 4.1.1. Primer/ Sealer: Primer to painted areas. Type recommended by lining board manufacturer for vapour control in in bathrooms. 4.2. Accessories: Beads/ stops as clause 692 5. Suspension system: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. 5.1. Grid type: Double with primary channel. 5.2. Hangers: Type recommended by board manufacturer 5.2.1. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specifed on architectural drawings. 6. Access units: Required as clause 431 - As indicated on architectural drawings 7. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications 8. Other requirements: 9. System performance 9.1. Standard: To IS EN 13964 9.2. Structural: The ceiling system must safely support all anticipated loads including services fittings. 9.2.1. Uniformly distributed load (maximum): 0.6 kN/m2 9.2.2. Additional loads/ pressures: luminaires and other M+E fittings-refer to M+E drawings and data sheets to be provided by specialist contractors 9.2.3. Deflection of grid between points of support (maximum): 0.0025 x span. 9.3. Fire performance 9.3.1. Reaction to fire: Class B - s3-d2 9.4. Airborne sound insulation (complete floor and ceiling assembly) 9.4.1. Weighted sound reduction index, Rw (minimum), to BS EN ISO 717-1: 50 dB. All in accordance with Architects Specification K10/215					
A	Depth of suspension <150mm	743	m2			
B	Extra over last for moisture resistance in accordance with Architects Specification K10/403	77	m2			
	Form bulkhead with one layer 12.5mm thick plasterboard fixed to and including framework, any additional required softwood framwork. Include for all joints scrimmed and finished with 3mm skim coat of finishing plaster; complete. All as per Architects Drawing 497 and Specification; Size;					
C	360mm deep x 600mm high (over kitchen wall units)	46	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	1. Description: Suspended ceiling system with seamless set perforated plasterboard for purpose of acheiving acoustic performance. 2. Standard: To IS EN 13964 3. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking 4. Manufacturer: Decor systems OR Equivalent 4.1. Product reference: Vogl OR Equivalent 5. Fire performance 5.1. Reaction to fire: Class B - s3-d2 6. Acoustic performances: 6.1. Area:: Absorbent material should cover an area equal to or greater than the floor area of the room. 6.2. Standard: Class C or better, rated according to I.S. EN ISO 11654. 7. Lining board: 7.1. Finishing: As recommended by board manufacturer 7.2. Perforated area: 9.5 % 7.3. Perforation pattern: 8/15/20 round 7.4. Accessories: beads/ stops recommended by lining board manufacturer 8. Suspension system 8.1. Grid centres: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance 8.2. Hangers: 8.2.1. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specifed on architectural drawings. 8.2.2. Centres: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance 9. Insulation: Acoustic fleece - block 9.1. Thickness: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. 10. Access units: As Clause 432 11. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications. All in accordance with Architects Specification K10/220					
A	Depth of suspension <150mm	133	m2			
	Access Hatches					
	1. Manufacturer: Submit proposals 2. Type: Concealed circular frame with beaded frame 2.1. Sizes: See ceiling plans - max diameter 600mm 3. Frame: Galvanised steel, polyster powder coated 4. Panel: Galvanised steel, polyster powder coated., colour TBC 5. Lock: Unitwist door hanging mechanism with restraining safety chain. Inclusive of all associated softwood timber support framework. All as per Architects Specification					
B	Circa 575mm diameter	143	No			
	1. Manufacturer: Submit proposals 2. Type: As recommended by lining manufacturer in clause 220 to complete the ceiling system and achieve specified performance 2.1. Sizes: See ceiling plans 3. Frame: Galvanised steel 4. Panel: galvanised steel for tiling with concealed pivot 5. Lock: budget lock					
C	400 x 400mm	10	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	1. Manufacturer: Dulux D154 OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved 3. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent 4. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent. All as per Architects Specification M60/110A					
A	>300mm	743	m2			
B	>300mm (bulkheads)	28	m2			
	1. Manufacturer: Dulux OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent 3. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film) 4. Finishing coats: Two coats Dulux Bathroom Plus. All as per Architects Specification M60/110B					
C	>300mm	133	m2			
	Insulation (Air tightness)					
	Description: Spunbonded polypropylene composition with polyolefin coating with non-woven fleece fabric and acrylic and butyl self-adhesive strips, used to provide an internal airtight seal.					
D	to wall / soffit junction	420	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
J	Testing		Item			
K	Surveys		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Samples		Item			
B	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/15/1					
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Page No. East/15/5					
EL (35) & (45) SUSPENDED CEILINGS & FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (47) ROOF FINISHES					
	GENERAL INFORMATION					
	For further details refer to Architects drawings and specifications.		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
	ROOFING, CLADDING & WATERPROOFING: Mastic Asphalt, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings					
	All work is to be carried out in accordance with the Single Ply Roofing Association Design Guide, in strict accordance with the manufacturer`s recommendations and where relevant BS 8217:2005 Code of Practice for Built-up Felt Roofing and BS 6229:2003 Code of Practice for Flat Roofs with Continuously Supported Coverings		Note			
	Roof coverings					
	Single layer polymeric sheet warm deck roof covering; SUBSTRATE: concrete deck laid level (measured elsewhere). ROOF COVERING SYSTEM: Bauder K5K or equivalent 5mm thick, 250g/m2 polyester reinforced elastomeric bitumen torch applied capping sheet ; COLOUR; Charcoal Grey; UNDERLAYER: Bauder G4E or equivalent 4mm thick 200g/m2 glass fibre reinforced elastomeric torch applied bitumen underlayer. INSULATION: Thin-R FR/BGM Unilin or equivalent PIR insulation board 140mm thick to achieve maximum thermal transmittance value of 0.16W/m2K. AIR AND VAPOUR CONTROL LAYER: Bauder TEC KSD FBS or equivalen 2.5mm thick elastomer bitumen air and vapour control layer with self adhesive membrane; all in accordance with the Works Requirements and in particular Architects drawing nr. 124 and specification clause J41/110					
	Horizontal					
A	> 300mm wide	231	m2			
	Vertical					
B	> 300mm wide	27	m2			
	Girth 450 - 600mm					
C	gutter lining	20	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over on warm deck roof coverings for					
A	Tapered PIR/PUR rigid urethane insulation board, to achieve maximum thermal transmittance value of 0.16W/m2K; all in accordance with the Works Requirtements and in particular Architects drawing no. 124 (Plant Room roof)	7	m2			
	Extra on roof coverings for					
B	stone ballast; 5 - 30mm rounded river washed pebbles; white/silver grey colour; depth 50mm thick; all in accordance with the Works Requirtements and in particular Architects drawing no.124 and specification clause J41/460	88	m2			
	Skirtings					
	Composite Item; 30mm PIR insulation dressed up wall forming parapet and faced with 18mm WBP ply fixed into parapet wall behind, ply lined and waterproof membrane taken up and over top and sealed to wall including vapour control layer dressed up face and sealed to parapet wall, including all DPC and accessories					
	Girth 450 - 600mm					
C	inside face of parapet walls	72	m			
	Collars around pipes, standards and the like					
	Pipes					
D	< or = 110mm diameter x 250mm high collar	12	nr			
	Fall Arrest Posts					
E	generally	12	nr			
	PV Panel Support Frames					
F	as propose by Contractor to meet the performance specification	1	item			
	Lining to					
	Outlets					
G	generally	12	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Green and Biodiverse Roofs					
	Intensive Green Roof; PROTECTION LAYER: Bauder BSM600 or equivalent 4mm thick protection fleece. Seperation Layer: Bauder Green PE02 or equivalent seperation layer ; SLIP LAYER; Bauder Green PE02 or equivalent slip layer; DRAINAGE LAYER: Bauder Green DSE60 or equivalent 60mm thick drainage board. FILTER LAYER : Bauder Green FV 125 or equivalent fllter fleece. GROWING MEDIUM; Bauder Green SUB-IM or equivalen intensive subtrate. Depth to be as per manufacturersguidelines; IRRIGATION; Bauder Green SUB-MD mineral drain aggregate; Depth to be as per manufacturers guidelines; ACCESSORIES; Chamber height adaptor, Inspection Chamber, Retention Angles, Project specific drip line irrigation to be as per manufacturers guidelines systemall in accordance with the Works Requirements and in particular Architects drawing nr.124 and specification clause Q37/110					
	Horizontal					
A	> 300mm wide	113	m2			

	Description	Qty	Unit	Rate	€	c
	ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Metal Coverings					
	Aluminium Flashings					
	1. Manufacturer: Submit proposals 2. Material: BS EN 515, BS EN 573-3, BS EN 485-1 and BS EN 485-2. 3. Finish: Annodized in East Block and to match finish of approved window systems 4. Material thickness (minimum): 3 mm. 5. Dimensions: As shown on archtectural drawings. 6. Fixings: SS self drilling screws, rivets for support frame. Clip system with no visible fixings to be used on coping 7. Top surface colour: RAL colour, anodic paint (or anodised to selected colour for East Block) 8. Brackets: "Clip-fix" folded aluminium brackets. 9. Jointing: Expanding seal tape. 10. Accessories: Factory fabricated stop-ends. Internal and external corners. 10.1. Substrate : Calcium Silicate Fibre Reinforced Board Manufacturer: Promat or equivalent Product reference: Supalux/Promatect-250 or equivalent Thickness: 15mm Material: Calcium silicate - exterior grade, inert and suitable for use in external walls/roofs. All to contractor's design. - End to end joints: butt jointed with epdm sealing strip under; external and internal corners should be welded and all welds ground down to provide a smooth and integral 3 dimensional profile. all in accordance with the Works Requirements and in particular Architects drawing no. 335 and specification clause F30/780; damp proof course as per specification clause F30/310A					
	Parapet Cappings					
A	girth 750 - 900mm	72	m			
	Extra over on parapet flashings for					
B	bends 90 degree	8	nr			
	DRAINAGE: Above Ground					
	Downpipes					
	Downpipes; PVC-U pipework to EN1329-1 Kitemark Certified; ; colour black; fixed with PVC-U clips; all as per Architects Specification Clause R10 425					
C	downpipes; 110mm diameter	27	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Insulation to internal downpipes					
	Insulation to PVC-U pipeworkMineral wool insulation; Thermal conductivity maximum 0.045W/mK; reaction to fire to EN1329-1 Class a1 or better; all as per Architects Specification Clause R10 450					
A	to downpipes; 110mm diameter	27	m			
	Proprietary Rainwater Outlets					
	Proprietary Rainwater Outlets; 90 degree spigot outlet; complete with domed grating and clamping collar; all in accordance with the Works Requirements and in particular Architects specification clause R10 365A					
	110mm diameter outlet pipe					
B	generally	4	nr			
	Proprietary Rainwater Outlets; bitumen parapet tell tale overflow; 650mm long (to achieve 150mm clearance from outer face);; minimum 330 x 330mm flange; all in accordance with the Works Requirements and in particular Architects specification clause R10 365E					
	110mm diameter outlet pipe					
C	generally	2	nr			
	Paving and Decking System					
	Decking System					
	Decking System to roofs; Incremental height adjustible steel pedestal support system to BS8579; height range 50 - 150mm high; pedestal diameter 205mm; compressive strength 25kN; complete with slope correctors and rubber acoustic shims; manufactuer submit proposals. all in accordance with the Works Requirements and in particular Architects specification clause J41/467					
	Pedestals					
D	generally	32	m2			

	Description	Qty	Unit	Rate	€	c
	Paving Slabs					
	Precast concrete paving slabs set on pedestal decking system;400 x 400 x 60mm thick precast paving slabs, natural grey finish, 5mm thick joints to BS7533-4:2006. all in accordance with the Works Requirements and in particular Architects specification clause J41/470					
A	generally	32	m2			
	Electronic Roof Integrity Test to all Roof Areas					
B	Electronic roof integrity test; all as per Architect's Drawings and Specification Section J41/920		Item			
C	Roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in concrete slab inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	10	no			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. East/16/5					
Page No. East/16/6					
EL (47) ROOF FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (59) MECHANICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Mechanical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Mechanical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATION					
	Deviation from ARM 4					
A	The Mechanical Installation has been measured in accordance with the Agreed Rules of Measurement ARM4 Supplement 2- Agreed Alternative Rules for the Measurement of Services Installations. The Mechanical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.		Item			
	DRAINAGE INSTALLATION					
	Distribution system					
	Pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
B	Waste pipework; polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; sizes as per drawings		Item			
C	32mm diameter		Item			
D	40mm diameter		Item			
E	110mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories;					
A	WC; 110mm waste to builders floor socket	18	nr			
B	WHB; 32mm trapped waste to builders floor socket	19	nr			
C	Sink; baths, showers, appliances; 40mm trapped waste to builders floor socket	47	nr			
	Insulation					
	Insulation to pipework and accessories; 25mm thick Class O insulation, heavy duty no noise insulation to SVPs;					
D	32mm diameter		Item			
E	40mm diameter		Item			
F	110mm diameter		Item			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
G	drainage installation		Item			
	Operating and maintenance manuals for					
H	drainage installation		Item			
	Working drawings for					
J	drainage installation		Item			
	Co-ordination drawings for					
K	drainage installation		Item			
	As built drawings for					
L	drainage installation		Item			
	Identification plates, labels and the like for					
M	drainage installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
A	drainage installation		Item			
	Fire stopping and other associated fire protection work for					
B	drainage installation		Item			
	SOIL VENT STACK INSTALLATION					
	Distribution system					
	Internal Soil Vent Stack (Pipework above Ground); polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; all as per Services Engineers Electrical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
C	110mm diameter pipework (grey or black to architects specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	54	m			
D	Extra over ditto, wrapping Soil Vent Pipe in acoustic insulation, all to the satisfaction of the Architect.	54	m			
E	110mm daimeter offset bends to last (grey or black to architects specification)	8	nr			
F	Roof cowls to suite 110mm vent pipes	4	nr			
G	Allow for airtight connect to between 110mm dia. vent pipe end to Vent & Cowl (elsewhere measured). Include for all necessary seals etc complete.	4	nr			
H	110mm 92.5 deg bend double socket (grey or black to architects specification)	12	nr			
J	110mm 92.5 deg branch double socket (grey or black to architects specification)	12	nr			
K	40mm push-fit boss adaptors. (grey or black to architects specification)	38	nr			
L	40mm diameter pipework (grey or black to architects later specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	85	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	40mm 92.5 deg bend double socket with solvent joints (grey or black to architects specification)	24	nr			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
B	soil vent stack installation		Item			
	Operating and maintenance manuals for					
C	soil vent stack installation		Item			
	Working drawings for					
D	soil vent stack installation		Item			
	Co-ordination drawings for					
E	soil vent stack installation		Item			
	As built drawings for					
F	soil vent stack installation		Item			
	Identification plates, labels and the like for					
G	soil vent stack installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
H	soil vent stack installation		Item			
	Fire stopping and other associated fire protection work for					
J	soil vent stack installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	DOMESTIC WATER SERVICES INSTALLATION					
	Primary Equipment					
	Primary Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M7, M8, M9 & M10					
	Primary equipment;					
	Convent					
A	Cold Water Storage Tank; sectional storage tank; full insulated to Format 30; fully sealed; overall size 3000mm long x 2000mm deep x 1000mm high; capacity 6,000 litres	1	nr			
	Accessories associated with primary equipment					
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	East Block					
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
B	Thermostatic Mixing Valve; WHB	20	nr			
C	Thermostatic Mixing Valve; sink	17	nr			
D	Thermostatic Mixing Valve;shower	8	nr			
E	Thermostatic Mixing Valve; bath	15	nr			
F	Thermostatic Mixing Valve (TMV3); Horne or equalled and approved Thermostatic Mixing Valve H15-11B; complete with check valves, flow regulator, full bore strainers, swivel inlet connectors	28	nr			
G	Balancing Valve; Oventrop or equalled and approved Balancing Valve Aquastrom Plus	26	nr			
H	ballofix valve; WHB	80	nr			
J	ballofix valve; sink	51	nr			
K	ballofix valve; shower	16	nr			
L	ballofix valve; bath	45	nr			
M	ballofix valve; WC	20	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	blending valve; WHB	20	nr			
B	blending valve; sink	17	nr			
C	blending valve; shower	6	nr			
D	blending valve; bath	30	nr			
E	comissioning set (fixed orifice double regulating valve)	1	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
F	MWS - Mains Water system pipework; 15mm diameter		Item			
G	MWS - Mains Water system pipework; 22mm diameter		Item			
H	MWS - Mains Water system pipework; 25mm diameter		Item			
J	MWS - Mains Water system pipework; 28mm diameter		Item			
K	MWS - Mains Water system pipework; 32mm diameter		Item			
L	MWS - Mains Water system pipework; 35mm diameter		Item			
M	MWS - Mains Water system pipework; 40mm diameter		Item			
N	MWS - Mains Water system pipework; 50mm diameter		Item			
P	MWS - Mains Water system pipework; 32mm diameter (S&T)		Item			
Q	MWS - Mains Water system pipework; 40mm diameter (S&T)		Item			
R	MWS - Mains Water system pipework; 50mm diameter (S&T)		Item			
S	BCWS - Boosted Cold Water system pipework; 15mm diameter		Item			
T	BCWS - Boosted Cold Water system pipework; 22mm diameter		Item			
U	BCWS - Boosted Cold Water system pipework; 28mm diameter		Item			
V	BCWS - Boosted Cold Water system pipework; 35mm diameter		Item			
W	BCWS - Boosted Cold Water system pipework; 42mm diameter		Item			
X	BCWS - Boosted Cold Water system pipework; 54mm diameter		Item			
Y	BCWS - Boosted Cold Water system pipework; 67mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	CWS - Cold Water system pipework; 15mm diameter		Item			
B	CWS - Cold Water system pipework; 22mm diameter		Item			
C	HWS - Hot Water Supply system pipework; 15mm diameter		Item			
D	HWS - Hot Water Supply system pipework; 22mm diameter		Item			
E	HWS - Hot Water Supply system pipework; 28mm diameter		Item			
F	HWS - Hot Water Supply system pipework; 35mm diameter		Item			
G	HWS - Hot Water Supply system pipework; 42mm diameter		Item			
H	HWS - Hot Water Supply system pipework; 54mm diameter		Item			
J	HWS - Hot Water Supply system pipework; 67mm diameter		Item			
K	HWR - Hot Water Return system pipework; 15mm diameter		Item			
L	HWR - Hot Water Return system pipework; 22mm diameter		Item			
M	HWR - Hot Water Return system pipework; 28mm diameter		Item			
N	HWR - Hot Water Return system pipework; 35mm diameter		Item			
P	HWR - Hot Water Return system pipework; 42mm diameter		Item			
Q	HWR - Hot Water Return system pipework; 54mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M6, M7, M8, M9 & M10					
	Convent					
R	MWS - Mains Water system pipework; 15mm diameter		Item			
S	MWS - Mains Water system pipework; 22mm diameter		Item			
T	MWS - Mains Water system pipework; 25mm diameter		Item			
U	MWS - Mains Water system pipework; 28mm diameter		Item			
V	MWS - Mains Water system pipework; 32mm diameter		Item			
W	MWS - Mains Water system pipework; 35mm diameter		Item			
X	MWS - Mains Water system pipework; 40mm diameter		Item			
Y	MWS - Mains Water system pipework; 50mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	MWS - Mains Water system pipework; 32mm diameter (S&T)		Item			
B	MWS - Mains Water system pipework; 40mm diameter (S&T)		Item			
C	MWS - Mains Water system pipework; 50mm diameter (S&T)		Item			
D	BCWS - Boosted Cold Water system pipework; 15mm diameter		Item			
E	BCWS - Boosted Cold Water system pipework; 22mm diameter		Item			
F	BCWS - Boosted Cold Water system pipework; 28mm diameter		Item			
G	BCWS - Boosted Cold Water system pipework; 35mm diameter		Item			
H	BCWS - Boosted Cold Water system pipework; 42mm diameter		Item			
J	BCWS - Boosted Cold Water system pipework; 54mm diameter		Item			
K	BCWS - Boosted Cold Water system pipework; 67mm diameter		Item			
L	CWS - Cold Water system pipework; 15mm diameter		Item			
M	CWS - Cold Water system pipework; 22mm diameter		Item			
N	HWS - Hot Water Supply system pipework; 15mm diameter		Item			
P	HWS - Hot Water Supply system pipework; 22mm diameter		Item			
Q	HWS - Hot Water Supply system pipework; 28mm diameter		Item			
R	HWS - Hot Water Supply system pipework; 35mm diameter		Item			
S	HWS - Hot Water Supply system pipework; 42mm diameter		Item			
T	HWS - Hot Water Supply system pipework; 54mm diameter		Item			
U	HWS - Hot Water Supply system pipework; 67mm diameter		Item			
V	HWR - Hot Water Return system pipework; 15mm diameter		Item			
W	HWR - Hot Water Return system pipework; 22mm diameter		Item			
X	HWR - Hot Water Return system pipework; 28mm diameter		Item			
Y	HWR - Hot Water Return system pipework; 35mm diameter		Item			
Z	HWR - Hot Water Return system pipework; 42mm diameter		Item			
AA	HWR - Hot Water Return system pipework; 54mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	East Block					
	Ground Floor					
A	Radiator [R14]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 1100mm; Delta T target 30 degrees; Heating Output target 0.74Kw	1	nr			
B	Radiator [R15]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
C	Radiator [R16]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
D	Radiator [R17]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
E	Radiator [R18]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
F	Radiator [R19]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
G	Radiator [R20]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
H	Radiator [R21]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1700mm; Delta T target 30 degrees; Heating Output target 1.51Kw	1	nr			
J	Radiator [R22]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
K	Radiator [R23]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
L	Radiator [R24]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
M	Radiator [R25]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.40Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R33]; Radiator Type H22S; double panel, two convector fins radiator; overall size 1500 x 505mm; Delta T target 30 degrees; Heating Output target 1.35Kw	1	nr			
B	Radiator [R34]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
C	Radiator [R35]; Radiator Type V20; double vertical panel radiator; overall size 1800 x 433mm; Delta T target 30 degrees; Heating Output target 0.70Kw	1	nr			
	First Floor					
D	Radiator [R51]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
E	Radiator [R52]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
F	Radiator [R53]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
G	Radiator [R54]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
H	Radiator [R55]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
J	Radiator [R56]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
K	Radiator [R57]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
L	Radiator [R58]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
M	Radiator [R59]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
N	Radiator [R60]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R61]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
B	Radiator [R62]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
C	Radiator [R63]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
D	Radiator [R64]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
E	Radiator [R69]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
F	Radiator [R70]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
	Second Floor					
G	Radiator [R85]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
H	Radiator [R86]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
J	Radiator [R87]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
K	Radiator [R88]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
L	Radiator [R89]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
M	Radiator [R90]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
N	Radiator [R91]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R92]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
B	Radiator [R93]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
C	Radiator [R94]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
D	Radiator [R95]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
E	Radiator [R96]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
F	Radiator [R97]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
G	Radiator [R98]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
H	Radiator [R103]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
J	Radiator [R104]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
	Third Floor					
K	Radiator [R112]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
L	Radiator [R113]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
M	Radiator [R114]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
N	Radiator [R115]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R116]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
B	Radiator [R117]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
C	Radiator [R118]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
D	Radiator [R119]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
E	Radiator [R120]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
F	Radiator [R121]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
G	Radiator [R122]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1600mm; Delta T target 30 degrees; Heating Output target 1.44Kw	1	nr			
H	Radiator [R123]; Radiator Type V20; double vertical panel radiator; overall size 2100 x 433mm; Delta T target 30 degrees; Heating Output target 0.81Kw	1	nr			
J	Radiator [R124]; Radiator Type H22S; double panel, two convector fins radiator; overall size 505 x 1300mm; Delta T target 30 degrees; Heating Output target 1.17Kw	1	nr			
K	Radiator [R125]; Radiator Type Edge; Towel warmer; overall size 800 x 600mm; Delta T target 30 degrees; Heating Output target 0.25Kw	1	nr			
L	Radiator [R128]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
M	Radiator [R129]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.63Kw	1	nr			
	Valves; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
N	Thermostatic radiator valve	63	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	2 port motorized valve	48	nr			
B	3 port motorized valve	5	nr			
C	Double Regulating Valve	8	nr			
D	Isolating Valve	191	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
E	Heating pipework; 15mm diameter		Item			
F	Heating pipework; 20mm diameter		Item			
G	Heating pipework; 25mm diameter		Item			
H	Refrigerant pipework; 15mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings M11, M12, M13 & M14					
J	Heating pipework; 15mm diameter		Item			
K	Heating pipework; 20mm diameter		Item			
L	Heating pipework; 25mm diameter		Item			
M	Refrigerant pipework; 15mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	VENTILATION INSTALLATION					
	Primary Equipment					
	Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Convent					
	Terminal Equipment					
	Terminal equipment; Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Extract Fans					
	Convent					
A	Extract Fan; Ref E.F.6; Mixvent or equal and approved duct mounted inline fan unit; 150mm diameter fan; Flowrate, 149m3/hr; PA 100; temperature stat control; timer run on	1	nr			
B	Extract Fan; Ref E.F.7; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
C	Extract Fan; Ref E.F.8; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
D	Extract Fan; Ref E.F.9; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
E	Extract Fan; Ref E.F.15; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
F	Extract Fan; Ref E.F.16; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
G	Extract Fan; Ref E.F.17; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
H	Extract Fan; Ref E.F.18; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Extract Fan; Ref E.F.19; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 69m3/hr; PA 75; light switch control; timer run on	1	nr			
B	Extract Fan; Ref E.F.20; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 37m3/hr; PA 75; light switch control; timer run on	1	nr			
C	Extract Fan; Ref E.F.21; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
D	Extract Fan; Ref E.F.22; Mixvent or equal and approved duct mounted inline fan unit; 100mm diameter fan; Flowrate, 49m3/hr; PA 75; light switch control; timer run on	1	nr			
E	Extract Fan; Ref E.F.28; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
F	Extract Fan; Ref E.F.29; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
G	Extract Fan; Ref E.F.30; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
H	Extract Fan; Ref E.F.31; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
J	Extract Fan; Ref E.F.32; Mixvent or equal and approved duct mounted inline fan unit; 125mm diameter fan; Flowrate, 70m3/hr; PA 75; light switch control; timer run on	1	nr			
K	Extract Fan; Ref E.F.33; duct connected to double extract hood; 150mm diameter fan; Flowrate, 600m3/hr; PA 100; 3 speed control; timer run on	1	nr			
L	Extract Fan; Ref E.F.34; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
M	Extract Fan; Ref E.F.35; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Extract Fan; Ref E.F.36; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
B	Extract Fan; Ref E.F.37; duct connected to extract hood; 125mm diameter fan; Flowrate, 400m3/hr; PA 100; 3 speed control; timer run on	1	nr			
C	Extract Fan; Aereco or equal and approved multifunctional extract fan with humidity and presence detectors; boost delay; Ref BXC275	24	nr			
D	Extract Fan; Aereco or equal and approved multifunctional extract fan with humidity and presence detectors; boost delay; Ref BXC273	8	nr			
E	Extract Fan; Aereco or equalled and approved demand controlled mechanical extract fan; Ref 2VA	15	nr			
	Terminal equipment and fittings					
	Terminal equipment and fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
F	Temperature and Humidity Sensors	1	nr			
	Terminal equipment and fittings					
	Terminal equipment and fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Supply Grilles					
G	Supply Grilles; 4 way diffuser style supply grilles complete with grille box; overall size 200 x 200mm; as per Supply Grilles Schedule	3	nr			
	Extract Grilles					
H	Extract Grilles; 4 way diffuser style extract grilles complete with grille box; overall size 200 x 200mm; as per Extract Grilles Schedule	2	nr			
	External Louvres; square neck louvres complete with back draft shutter; as per Louvres Schedule					
J	External Louvres; overall size 150 x 150mm	9	nr			
K	External Louvres; overall size 200 x 200mm	11	nr			
L	External Louvres; overall size 250 x 250mm	2	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	External Louvres; overall size 300 x 300mm	2	nr			
	Distribution system					
	Ductwork; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
B	Supply air system ductwork; sizes of ducting as per drawings		Item			
C	Extract air system ductwork; sizes of ducting as per drawings		Item			
	Ductwork Fittings and Accessories; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Fire Smoke Dampers; circular motorized smoke and fire damper; mounted in ventilation ducts					
D	Fire Smoke Dampers; S30 fire rating	5	nr			
E	Fire Smoke Dampers; S60 fire rating	5	nr			
	Dampers					
F	Temperature and Humidity Sensor	1	nr			
	Insulation					
	Insulation; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
G	Insulation to supply air system ductwork; sizes of ducting as per drawings		Item			
H	Insulation to extract air system ductwork; sizes of ducting as per drawings		Item			
	General					
	General; all as per Services Engineers Electrical Specification and Services Engineers Drawings M15, M16, M17 & M18					
	Testing and commissioning					
J	Ventilation Installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	Ventilation Installation		Item			
	Working drawings for					
B	Ventilation Installation		Item			
	Co-ordination drawings for					
C	Ventilation Installation		Item			
	As built drawings for					
D	Ventilation Installation		Item			
	Identification plates, labels and the like for					
E	Ventilation Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
F	Ventilation Installation		Item			
	Fire stopping and other associated fire protection work for					
G	Ventilation Installation		Item			
	TESTING AND SAMPLING					
	Include for all testing & sample requirements as set out in the Architects works requirements					
H	Testing	1	Item			
J	Samples	1	Item			
	Include for all testing & sample requirements as set out in the Engineers works requirements					
K	Testing	1	Item			
L	Samples	1	Item			
	Include for all testing & sample requirements as set out in the Services Engineers works requirements					
M	Testing	1	Item			
N	Samples	1	Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/17/1					
Page No. East/17/2					
Page No. East/17/3					
Page No. East/17/4					
Page No. East/17/5					
Page No. East/17/6					
Page No. East/17/7					
Page No. East/17/8					
Page No. East/17/9					
Page No. East/17/10					
Page No. East/17/11					
Page No. East/17/12					
Page No. East/17/13					
Page No. East/17/14					
Page No. East/17/15					
Page No. East/17/16					
Page No. East/17/17					
Page No. East/17/18					
Page No. East/17/19					
EL (59) MECHANICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (69) ELECTRICAL INSTALLATION					
A	ELECTRICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Electrical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Electrical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL INSTALLATION					
	Deviation from ARM 4					
B	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement ARM4 Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Electrical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Item			
	GENERAL SERVICES, SMALL POWER & COMMUNICATIONS SYSTEM INSTALLATIONS					
	System					
C	General services, small power & communications services systems to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification/Scope of Work document					
	Convent					
A	Sub Mains Distribution Board; Locations - Each Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	1	nr			
B	Mains Domestic Distribution Board; Locations - Each Apartment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	15	nr			
C	Mechanical Control Panel; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	1	nr			
D	Mains Distribution Facility; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24	1	nr			
E	Comms cabinet; Location; Third Floor; complete with Main distribution facility, door access gateway, Comms Junction box; 2 No. 20A fused spur; Network Video Recorder	1	nr			
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24					
	Convent					
F	Television Outlets; CAT 6A cabling	15	nr			
G	Double Data Point; CAT 6A cabling (2 No. RJ45 to be wired in separate conduit to Main Distribution Facility)	15	nr			
H	TV Outlets; (to be wired in separate conduit to TV patch panel)	15	nr			
J	13A Twin switched outlet complete with Part M compliant socket outlet	89	nr			
K	16A Twin switched outlet complete with Part M compliant socket outlet' located over counter	30	nr			
L	20A Switched fused spur outlet outlet complete with neon light (Ventilation Fan)	15	nr			
M	13A Switched fused spur outlet outlet complete with neon light (Motorized Valve)	15	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	13A Unswitched fused spur outlet outlet complete with neon light (Fire Alarm Panel)	1	nr			
B	13A Unswitched fused spur outlet outlet complete with neon light (Door Access Control); IP65 rated	1	nr			
C	Extract Fan location	15	nr			
D	Wiring to Door Access Control Unit	4	nr			
E	Door Access Gateway WIFI Access Hub; interconnected with the Main Distribution Facility	4	nr			
F	Room Thermostat	48	nr			
G	13A Switched fused spur outlet; outlet complete with neon light (Room Thermostat)	48	nr			
H	13A Unswitched fused spur outlet; outlet complete with neon light (Automatic Opening Vent)	5	nr			
J	13A Switched fused spur outlet; outlet complete with neon light (Heat Recovery Unit)	5	nr			
K	13A Switched fused spur outlet; outlet complete with neon light (2-3 Port Motorized Valve)	22	nr			
L	13A Unswitched fused spur outlet; outlet complete with neon light (Automatic Opening Vent)	5	nr			
M	Single Data Point; CAT 6A cabling (to be wired in separate conduit); WIFI future connection	15	nr			
N	13A Switched fused spur outlet; outlet complete with neon light (Disabled Refuge)	2	nr			
P	13A Switched fused spur outlet; outlet complete with neon light (Disabled Refuge)	2	nr			
Q	13A Switched fused spur outlet; outlet complete with neon light (Fridge Freezer)	15	nr			
R	32A 3 phase surface socket outlet; Lift; IP67 rated	4	nr			
S	Test Switch for AOV; complete with control panel	4	nr			
T	13A Unswitched fused spur outlet; outlet complete with neon light (Future Intruder Alarm)	1	nr			
U	Leak Detection Unit; complete with floor probe	1	nr			
V	32A 3 phase surface socket outlet; Outdoor air to water heat pump; IP66 rated	15	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	13A Switched double outdoor power socket, IP66	12	nr			
B	Future WIFI box location;	9	nr			
C	Wall mounted extract fan control switch (RF/230V)	15	nr			
D	Television Junction Box; allow for 2 No. x 60.0m coaxial cable	15	nr			
E	20A Switched fused spur outlet; outlet complete with neon light (Dish Washer)	6	nr			
F	20A Switched fused spur outlet; outlet complete with neon light (Washer/Dryer)	8	nr			
G	32A Switched Isolator outlet; outlet complete with neon light (Cooker)	6	nr			
H	13A Switched fused spur outlet; outlet complete with neon light (Kitchen Extract Fan)	6	nr			
J	Lift Panel	4	nr			
K	13A Switched fused spur outlet; outlet complete with neon light (Manifold)	1	nr			
L	230V power supply to Trace Heating; complete with IP67 rated junction box	1	nr			
M	13A Switched fused spur outlet; outlet complete with neon light (Pressurisation Set)	1	nr			
N	External Frost Thermostat	1	nr			
P	External Sensor	1	nr			
Q	13A Switched fused spur outlet; outlet complete with neon light (Circulating Pump)	4	nr			
R	20A Switched fused spur outlet; outlet complete with neon light (Immersion)	1	nr			
S	13A Switched fused spur outlet; outlet complete with neon light; Part M compliant (Boiler)	1	nr			
T	Meters	4	nr			
U	13A Single switched socket outlet; outlet complete with neon light (Extract Fan)	2	nr			
V	13A Single switched socket outlet; outlet complete with neon light (Indoor Air to Water Unit)	15	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	25A Single switched socket outlet; outlet complete with neon light (External Air to Water Unit)	15	nr			
B	Electronic Room Stat	30	nr			
C	External Door Bell Push; Vandal proof	15	nr			
D	Indoor Door Bell Chime unit	15	nr			
E	Double Data/Phone point service outlet (wiring in separate conduit to Data/ Telephone junction box (ATB)	3	nr			
F	Double Data/Phone point service outlet (wiring in separate conduit to Data/ Telephone junction box (ITB)	3	nr			
G	Pro-S 24V power supply and and damper control	28	nr			
H	13A Single switched socket outlet; outlet complete with neon light (Extract Fan)	4	nr			
J	13A Single switched socket outlet; outlet complete with neon light (Manifold)	2	nr			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E24					
	Testing and commissioning					
K	General services, small power & communications services system installations		Item			
	Operating and maintenance manuals for					
L	General services, small power & communications services system installations		Item			
	Working drawings					
M	General services, small power & communications services system installations		Item			
	Co-ordination drawings					
N	General services, small power & communications services system installations		Item			
	As built drawings					
P	General services, small power & communications services system installations		item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Digital safety file					
A	General services, small power & communications services system installations		Item			
	Identification plates, labels and the like for					
B	General services, small power & communications services system installations		Item			
	Demonstrations					
C	General services, small power & communications services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
D	General services, small power & communications services system installations		Item			
	Fire stopping and other associated fire protection work for					
E	General services, small power & communications services system installations		Item			
	DOOR ACCESS CONTROL INSTALLATIONS					
	Access Control System					
F	Access Control Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16		Item			
	Fittings					
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
G	Push to exit push plate	4	nr			
H	Key Pad; IP67 rated; complete with fob reader	4	nr			
J	Door Access Gateway WIFI access hub interconnected with main distribution facility	4	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Mains & Sub mains cable distribution system					
A	CCTV Services system installations		Item			
B	Access Control Services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
	Convent					
C	Push to exit push plate	4	nr			
D	Key Pad; IP67 rated; complete with fob reader	4	nr			
E	Door Access Gateway WIFI access hub interconnected with main distribution facility	4	nr			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
F	Access Control Services system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Testing and commissioning					
G	Access Control Services system installations		Item			
	Operating and maintenance manuals for					
H	Access Control Services system installations		Item			
	Working drawings					
J	Access Control Services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Co-ordination drawings					
A	Access Control Services system installations		Item			
	As built drawings					
B	Access Control Services system installations		Item			
	Digital safety file					
C	Access Control Services system installations		Item			
	Identification plates, labels and the like for					
D	Access Control Services system installations		Item			
	Demonstrations					
E	Access Control Services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
F	Access Control Services system installations		Item			
	Fire stopping and other associated fire protection work for					
G	Access Control Services system installations		Item			
	GENERAL AND EMERGENCY LIGHTING INSTALLATIONS					
	System					
H	General & emergency lighting system installations; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10		Item			
	Fittings					
	Light fittings, including LED lamps; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
J	Refer to Service Engineers schedule of luminaires for light fitting specifications		Note			
	Domestic Areas					
K	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	33	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	12	nr			
	Administration Areas					
B	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	7	nr			
C	LED under cupboard light; 2.75m long	15	nr			
D	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	3	nr			
E	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K; wall hung	12	nr			
F	Type B4 Luminaire; Intra Lighting Nitor RVSOP 1050-2000 recessed ceiling fitting; luminous flux of 1615LM with 12.55 W; colour temperature of 3000K	24	nr			
G	Bega Pendant Luminaire; Ref 24980K3; 19.3W; Luminous Flux 2100LM; colour temperature 3000K	7	nr			
H	External Luminaire; WE-EF/131-9631 PLS 420 LED luminaire; 265 x 225 x 70mmVentilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	7	nr			
J	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Corridors	7	nr			
K	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Offices	13	nr			
L	Emergency Sign; Thorn Voyager Sigma ceiling mounted 3 hour maintained Dali Emergency LED exit box	9	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	One way switch; include for back box	46	nr			
B	Two way switch; include for back box	4	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling;					
	Mains & Sub mains cable distribution system					
C	General & emergency lighting system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
D	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	33	nr			
E	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	12	nr			
F	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	7	nr			
G	LED under cupboard light; 2.75m long	15	nr			
H	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	3	nr			
J	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K; wall hung	12	nr			
K	Type B4 Luminaire; Intra Lighting Nitor RVSOP 1050-2000 recessed ceiling fitting; luminous flux of 1615LM with 12.55 W; colour temperature of 3000K	24	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Bega Pendant Luminaire; Ref 24980K3; 19.3W; Luminous Flux 2100LM; colour temperature 3000K	7	nr			
B	External Luminaire; WE-EF/131-9631 PLS 420 LED luminaire; 265 x 225 x 70mmVentilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	7	nr			
C	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Corridors	7	nr			
D	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen - Offices	13	nr			
E	Emergency Sign; Thorn Voyager Sigma ceiling mounted 3 hour maintained Dali Emergency LED exit box	9	nr			
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
F	Detection sensor; Glamox or equal and approved sensor; type C-Sen	5	nr			
G	Detection sensor; Glamox or equal and approved sensor; type P-Sen	10	nr			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
H	General & emergency lighting system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Testing and commissioning					
J	General & emergency lighting system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	General & emergency lighting system installations		Item			
	Working drawings					
B	General & emergency lighting system installations		Item			
	Co-ordination drawings					
C	General & emergency lighting system installations		Item			
	As built drawings					
D	General & emergency lighting system installations		Item			
	Digital safety file					
E	General & emergency lighting system installations		Item			
	Identification plates, labels and the like for					
F	General & emergency lighting system installations		Item			
	Demonstrations					
G	General & emergency lighting system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
H	General & emergency lighting system installations		Item			
	Fire stopping and other associated fire protection work for					
J	General & emergency lighting system installations		Item			
	FIRE ALARM INSTALLATION					
	System					
K	Fire Alarm Installation to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13, E14 & E15		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Fire Alarm Installation; Equipment; installation all as per Services Engineers Electrical Specification and Services Engineers Drawings E11,E12, E13, E14 & E15					
	Convent					
A	Fire Alarm Panel; Location, Ground Floor	1	nr			
B	Aspirating Smoke Detector Unit; Location, Second Floor	1	nr			
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Convent; Landlord Areas					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
C	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	26	nr			
D	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	48	nr			
E	Fire Alarm AOV	4	nr			
F	Manual Call Point; fixed 1200mm above F.F.L	4	nr			
G	Addressable External Fire Alarm sounder/strobe unit	1	nr			
H	Fire Alarm Interface Unit complete with electrical spur	24	nr			
J	Fire Alarm Interface (Ventilation) Unit complete with electrical spur	6	nr			
K	Emergency Panel Receiver	1	nr			
L	Magnetic door lock release	15	nr			
	Convent; Domestic Areas					
M	Addressable interlinked Fire Alarm Heat Detector complete with sounder	16	nr			
N	Addressable interlinked Fire Alarm Smoke Detector complete with sounder	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	6	nr			
B	Carbon Monoxide Detector; mains operated, battery back-up	15	nr			
C	Smoke Detector complete with sounder; mains operated, battery back-up	9	nr			
D	Heat Detector complete with sounder; mains operated, battery back-up	6	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6					
E	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location: (Routed via ceiling void)		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Final circuits (including points terminations)					
	Terminations					
	Terminations to Fire Alarm installations					
F	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	26	nr			
G	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	48	nr			
H	Fire Alarm AOV	4	nr			
J	Manual Call Point; fixed 1200mm above F.F.L	4	nr			
K	Addressable External Fire Alarm sounder/strobe unit	1	nr			
L	Fire Alarm Interface Unit complete with electrical spur	24	nr			
M	Fire Alarm Interface (Ventilation) Unit complete with electrical spur	6	nr			
N	Emergency Panel Receiver	1	nr			
P	Magnetic door lock release	15	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Convent; Domestic Areas					
A	Addressable interlinked Fire Alarm Heat Detector complete with sounder	16	nr			
B	Addressable interlinked Fire Alarm Smoke Detector complete with sounder	1	nr			
C	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	6	nr			
D	Carbon Monoxide Detector; mains operated, battery back-up	15	nr			
E	Smoke Detector complete with sounder; mains operated, battery back-up	9	nr			
F	Heat Detector complete with sounder; mains operated, battery back-up	6	nr			
	Convent					
	Earthing and bonding installation					
G	Diabled Alarm System Installation		Item			
	General					
	General items; all as					
	Testing and commissioning					
H	Fire Alarm System Installation		Item			
	Operating and maintenance manuals for					
J	Fire Alarm System Installation		Item			
	Working drawings					
K	Fire Alarm System Installation		Item			
	Co-ordination drawings					
L	Fire Alarm System Installation		Item			
M	Protective services system installation integration/interface to/with existing hospital system		Item			
	As built drawings					
N	Fire Alarm System Installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Digital safety file					
A	Fire Alarm System Installation		Item			
	Identification plates, labels and the like for					
B	Fire Alarm System Installation		Item			
	Demonstrations					
C	Fire Alarm System Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
D	Fire Alarm System Installation		Item			
	Fire stopping and other associated fire protection work for					
E	Fire Alarm System Installation		Item			
	INTRUDER ALARM INSTALLATION					
	Intruder Alarm System					
F	Intruder Alarm Installation to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
	Equipment					
	Intruder Alarm Installation; Equipment; installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Convent					
G	Intruder Alarm Control Panel; Location, Ground Floor	1	nr			
	Accessories associated with terminal equipment					
	Convent					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
H	Internal Sounder	5	nr			
J	Passive Infrared Intruder Detector	17	nr			
K	Internal Key Pad for Alarm	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Magnetic Reed Contact	8	nr			
B	External Strobe/Sounder	1	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Final circuits (including points terminations)					
	Terminations					
	Terminations to Intruder Alarm installations					
	Convent					
	Equipment					
C	Intruder Alarm Control Panel; Location, Ground Floor	1	nr			
D	Internal Sounder	5	nr			
E	Passive Infrared Intruder Detector	17	nr			
F	Internal Key Pad for Alarm	1	nr			
G	Magnetic Reed Contact	8	nr			
H	External Strobe/Sounder	1	nr			
	Earthing and bonding installation					
J	Intruder Alarm Installation		Item			
	General					
	General items;					
	Testing and commissioning					
K	Intruder Alarm Installation		Item			
	Operating and maintenance manuals for					
L	Intruder Alarm Installation		Item			
	Working drawings					
M	Intruder Alarm Installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Co-ordination drawings					
A	Intruder Alarm Installation		Item			
	As built drawings					
B	Intruder Alarm Installation		Item			
	Digital safety file					
C	Intruder Alarm Installation		Item			
	Identification plates, labels and the like for					
D	Intruder Alarm Installation		Item			
	Demonstrations					
E	Intruder Alarm Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
F	Intruder Alarm Installation		Item			
	Fire stopping and other associated fire protection work for					
G	Intruder Alarm Installation		Item			
	<u>SECURITY SERVICES INSTALLATIONS</u>					
	CCTV System					
H	CCTV Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
J	Access Control Services system installation; General services, small power & communications services systems to Convent; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Equipment; all as per Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents and Drawings					
	Convent					
A	CCTV 8 Channel network video recorder complete with 3TB storage	1	nr			
	Fittings					
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	CCTV System					
B	Dome digital colour camera; camera to to be 2048 x 1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	9	nr			
C	24" Flat Screen Monitor	1	nr			
D	32 Way Network Video Recorder complete with 4TB storage	1	nr			
E	12V supply CAT 6A wired back to NVR	4	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Mains & Sub mains cable distribution system					
F	CCTV Services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
	Convent					
G	Dome digital colour camera; camera to to be 2048 x 1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	10	nr			
H	24" Flat Screen Monitor	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	32 Way Network Video Recorder complete with 4TB storage	1	nr			
	General earthing and bonding					
	all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
B	CCTV Services system installations		Item			
C	Access Control Services system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E16, E17, E18 & E19					
	Testing and commissioning					
D	CCTV Services system installations		Item			
	Operating and maintenance manuals for					
E	CCTV Services system installations		Item			
	Working drawings					
F	CCTV Services system installations		Item			
	Co-ordination drawings					
G	CCTV Services system installations		Item			
	As built drawings					
H	CCTV Services system installations		Item			
	Digital safety file					
J	CCTV Services system installations		Item			
	Identification plates, labels and the like for					
K	CCTV Services system installations		Item			
	Demonstrations					
L	CCTV Services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
M	CCTV Services system installations		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Fire stopping and other associated fire protection work for					
A	CCTV Services system installations		Item			
	CABLE LADDER/TRAY/TRUNKING SYSTEM INSTALLATIONS					
	System					
B	Cable ladder/tray/trunking services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23		Item			
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Convent					
	Ground Floor Level; as per Drawing E20					
C	LV cable tray with fittings; 200mm wide x 55mm high		Item			
D	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
E	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	First Floor Level; as per Drawing E21					
F	LV cable tray with fittings; 200mm wide x 55mm high		Item			
G	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
H	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	Second Floor Level; as per Drawing E22					
J	LV cable tray with fittings; 200mm wide x 55mm high		Item			
K	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
L	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Third Floor Level; as per Drawing E23					
A	LV cable tray with fittings; 200mm wide x 55mm high		Item			
B	ELV cable trunking with fittings; 225mm wide x 75mm high; 3 No. compartment trunking		Item			
C	Fire Alarm cable tray with fittings; 75mm wide x 25mm high		Item			
	Roof Level					
D	Cable trunking with fittings; 150mm wide x 150m high		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Mains & Sub mains cable distribution system					
E	Cable ladder/tray/trunking services system installations		Item			
F	Cable ladder/tray/trunking services system installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
G	Cable ladder/tray/trunking services system installations		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E20, E21, E22 & E23					
	Testing and commissioning					
H	Cable ladder/tray/trunking services system installations		Item			
	Operating and maintenance manuals for					
J	Cable ladder/tray/trunking services system installations		Item			
	Working drawings					
K	Cable ladder/tray/trunking services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Co-ordination drawings					
A	Cable ladder/tray/trunking services system installations		Item			
	As built drawings					
B	Cable ladder/tray/trunking services system installations		item			
	Digital safety file					
C	Cable ladder/tray/trunking services system installations		Item			
	Identification plates, labels and the like for					
D	Cable ladder/tray/trunking services system installations		Item			
	Demonstrations					
E	Cable ladder/tray/trunking services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
F	Cable ladder/tray/trunking services system installations		Item			
	Fire stopping and other associated fire protection work for					
G	Cable ladder/tray/trunking services system installations		Item			
	<u>SITE LIGHTING SYSTEM INSTALLATIONS</u>					
	System					
H	Site Lighting services system installation; Cable ladder/ tray/trunking services system installation all as Services Engineers Electrical Specification/Scope of Work document Ref 11413-Z-XX-X-XXX-SP-EE-00001; General Electrical Installation Specifications document Ref 11413-Z-XX-X-XXX-SP-EE-00002 and HSE National Cabling Standards version 5.7 and Drawing 11413-Z-XX-X-XXXDR-RPS-EE-60001		Item			
J	Ducting & trenching work for site lighting measured in Site Service (Mainly Electrical)		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Public Lighting Standards / Lights / Bollards; supply, position and erect lighting poles complete lighting standars on poles including cables, luminarire, lamp holders, outdoor luminaire controller and set into foundations (elsewhere measured) and all as per manufacturers recommendations all as per Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents and Drawings BCCE-RPS-BE-ZZ-DR-E-60001 including schedule of luminaires.					
A	Type B; Top mounted led lantern on and including 6.0m column with 0deg tilt, 5500 lumen; 4000K LED lantern	4	nr			
B	Type D; 0.9m high bollard; pedestal mounted, 400 lumen; 4000K LED bollard	1	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as Services Engineers Electrical Specification/ Scope of Work document Ref 11413-Z-XX-X-XXX-SP-EE-00001; General Electrical Installation Specifications document Ref 11413-Z-XX-X-XXX-SP-EE-00002 and HSE National Cabling Standards version 5.7 and Drawing 11413-Z-XX-X-XXXDR-RPS-EE-60001					
C	Site lighting services system installation		Item			
	Final Circuits (Including points terminations)					
	Terminations					
D	Site lighting services system installation		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as Services Engineers Electrical Specification/Scope of Work document Ref 11413-Z-XX-X-XXX-SP-EE-00001; General Electrical Installation Specifications document Ref 11413-Z-XX-X-XXX-SP-EE-00002 and HSE National Cabling Standards version 5.7 and Drawing 11413-Z-XX-X-XXXDR-RPS-EE-60001					
E	Site lighting services system installation		Item			
	General					
	Testing and commissioning					
F	Site lighting services system installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	Site lighting services system installation		Item			
	Working, co-ordination and as built drawings for					
B	Site lighting services system installation		Item			
	Identification plates, labels and the like for					
C	Site lighting services system installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
D	Site lighting services system installation		Item			
	Fire stopping and other associated fire protection work for					
E	Site lighting services system installation		Item			
	STRUCTURAL BONDING SERVICES INSTALLATIONS					
	System					
F	Structural Bonding installation; all as Services Engineers Electrical Specification and Drawings E26		Item			
	Equipment					
	Equipment; all as Services Engineers Electrical Specification and Drawings E26					
	East Block					
G	Earth Inspection pit/test chamber; complete with internal test point	3	nr			
H	Lightning Rods; 2.0m high air terminal	3	nr			
J	Vertical down conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to outside of building	41	m			
K	Horizontal conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to roof of building	94	m			
L	Bond; complete with copper tape dropper	3	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as Services Engineers Electrical Specification and Drawings E26					
A	structural bonding services installations		Item			
	Final circuits (including points terminations)					
	Terminations					
B	structural bonding services installations		Item			
	General					
	General items; all as Services Engineers Electrical Specification and Drawings E26					
	Testing and commissioning					
C	structural bonding services installations		Item			
	Operating and maintenance manuals for					
D	structural bonding services installations		Item			
	Working drawings					
E	structural bonding services installations		Item			
	Co-ordination drawings					
F	structural bonding services installations		Item			
	As built drawings					
G	structural bonding services installations		Item			
	Digital safety file					
H	structural bonding services installations		Item			
	Identification plates, labels and the like for					
J	structural bonding services installations		Item			
	Demonstrations					
K	structural bonding services installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
A	structural bonding services installations		Item			
	Fire stopping and other associated fire protection work for					
B	structural bonding services installations		Item			
	PORTABLE FIRE EXTINGUISHERS INSTALLATION					
	Primary Equipment					
	Fire extinguishers; including all fixings, brackets and relevant signage; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
	East Block					
C	2kg CO2 fire point Including single backing board & signage	8	nr			
D	6L Water fire point Including single backing board & signage	8	nr			
E	1.80m x 1.20m fire blanket & sign c/w wall fixing	7	nr			
	Accessories associated with primary equipment					
	Accessories associated with primary equipment; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
F	Fire extinguisher cabinets fitted into recessed walls/partitions 800 x 795mm	8	nr			
	General					
	General; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings.					
	Testing and commissioning					
G	Portable fire extinguishers installation	1	Item			
	Operating and maintenance manuals for					
H	Portable fire extinguishers installation	1	Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Working drawings for					
A	Portable fire extinguishers installation	1	Item			
	Co-ordination drawings for					
B	Portable fire extinguishers installation	1	Item			
	As built drawings for					
C	Portable fire extinguishers installation	1	Item			
	Identification plates, labels and the like for					
D	Portable fire extinguishers installation	1	Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
E	Portable fire extinguishers installation	1	Item			
	Fire stopping and other associated fire protection work for					
F	Portable fire extinguishers installation	1	Item			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/18/1					
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Page No. East/18/3					
Page No. East/18/4					
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Page No. East/18/8					
Page No. East/18/9					
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Page No. East/18/13					
Page No. East/18/14					
Page No. East/18/15					
Page No. East/18/16					
Page No. East/18/17					
Page No. East/18/18					
Page No. East/18/19					
Page No. East/18/20					
Page No. East/18/21					
Page No. East/18/22					
Page No. East/18/23					
Page No. East/18/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/18/25					
Page No. East/18/26					
Page No. East/18/27					
Page No. East/18/28					
EL (69) ELECTRICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (66) TRANSPORT INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF LIFT INSTALLATION					
	Deviation from ARM 4					
	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Lift Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Note			
	LIFT INSTALLATIONS					
	System					
A	Lift installations services system installation all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment TYPE OF LIFT: Electric Drive P-Passenger elevator; COMPLIANCE CODE: The Lift Installation shall comply with EN81-20:2014 Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods, EN81-73:2016 Behaviour of lifts in the event of fire, EN81-70:2018 Accessibility to Lifts for persons including persons with disability; TYPE OF DRIVE Gearless; NUMBER OF FLOORS 4 No.: LIFT TRAVEL DISTANCE 4 No. Floors @ 3.4m per floor; RATED SPEED 1.0m/s RATED CAPACITY: 630kg/8 No. persons; SHAFT DIMENSIONS 1.65m wide x 1.80m deep; SHAFT CONSTRUCTION, Concrete; PIT HEIGHT 1.10m; HEADROOM 3.40m; ENTRANCES: 4 No. front entrances; FIRE RESISTANCE 2 hour rating (FD120); MACHINERY LOCATION; Top of lift shaft; CONTROL SYSTEM, Full Collective. Simplex; MACHINE OUTPUT 4kW; ELECTRICAL SUPPLY: Nominal supply current with shaft lighting 11A; Starting supply curent 13A; Main Fuses 10A; Power Supply, machinery 3 x 400/50 V/hZ; Power supply 230/50V/Hz; GUIDES AND ATTACHMENTS; Expander bolts fixing Car with sliding shoes; ROPES; Steel hoisting ropes; CAR DIMENSIONS 1.10m wide x 1.40m deep x 2.10m high: DOOR SIZE 0.90m wide x 2.00m high LIFT CAR FIINISHES: Floor Finishes, Ceiling Finishes Wall Finishes, Handrails and Operating Panel and Indicators as per Section 3 of the Lift Specification: LIFT CAR FITMENTS: Lift car fitments all as per Section 3 of the Lift Specification; LIFT CAR/EMERGENCY LIGHTING: all as per Section 3 of the Lift Specification; COMMUNICATION: al as per Section 3 of the Lift Specification					
A	Passenger Lift	1	Item			
	Fittings Fittings; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	3 Phase isolator	1	nr			
C	Single socket outlet	1	nr			
D	Phone point	1	nr			
E	25 amp switch fused isolator	1	nr			
F	10 amp fuse spur	1	nr			
G	Smoke aspirator unit	1	nr			
H	key reader and proximity sensor at each floor	4	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Two gang two way light switches, include for Back Box	2	nr			
	Distribution system					
	Pipework; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location:[As per Site Specific Electrical Specification Section]		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
C	Lift installations		Item			
	Final Circuits (Including points terminations)					
	Terminations					
D	Lift installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
E	Lift installations		Item			
	General					
	Testing and commissioning					
F	Lift installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	Lift installations		Item			
	Co-ordination drawings					
B	Lift installations		Item			
	As built drawings					
C	Lift installations		Item			
	Digital safety file					
D	Lift installations		Item			
	Identification plates, labels and the like for					
E	Lift installations		Item			
	Demonstrations					
F	Lift installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Lift installations		Item			
H	Allow for 300x300mm ope to top of lift shaft for lift shaft ventilation. Allow for the provision of a lift smoke vent to external air (to include all necessary fire rated ducting and roof opes, cowls etc.) which shall be compliant with the building fire certificate and in accordance with the architects specification.		Item			
J	Allow for providing metal ladder in the lift pit 1100mm deep.		Item			
K	Allow for 60/60 one hour rated fire sealing around architraves on each landing door		Item			
L	Provide opes for floor indicator boxes, 4 No. 300mm x 100mm nominal and making good.		Item			
M	Provide opes for landing push boxes, 4 No. 150 x 150 mm and making good.		Item			
N	Provide lifting beam at top of lift shaft to carry 2000 kg (Refer to Roof Element)		Item			
P	Allow for building in of door sills at each landing door.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Allow for building in 2 metres long Unistrut channel at 2 m. centres in the lift shaft.		Item			
B	Allow for floor ope at bottom of lift shaft for lift sump.		Item			
C	Allow for protective materials / sheeting to protect exposed Lift Equipment, shaft lighting, electrical accessories within the shaft etc.		Item			
D	Allow for liaison and coordination with the Electrical contractor in relation to permanent shaft lighting, phone line and power supply installation to ensure commissioning on project programme		Item			
	PAINTING AND DECORATING: Painting					
	Lift Shaft Walls					
E	> 300mm wide	102	m2			
	Fire stopping and other associated fire protection work for					
F	Lift installations		Item			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/19/1					
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Page No. East/19/5					
EL (66) TRANSPORT INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (--) BUILDERS WORK					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineer's drawings together with Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	SUNDRIES AND BUILDERS WORK					
A	Note that Forming or cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floorboards or raised access floor panels etc and making good are deemed to be included in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations.	1	Item			
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	East Block - Electrical Installation - All One Hour Fire Rating					
	Tray/Trunking					
B	500 x 180mm	2	nr			
	Internal Services - Generally					
	Power Distribution					
C	Data Points	20	nr			
D	Double Sockets	110	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Spurs	110	nr			
B	Room Stats	30	nr			
C	Main/Sub Distribution Board	2	nr			
D	Apartment Meters	15	nr			
E	MDF/IDF/Comms/PDU	1	nr			
F	CO2 Sensor/Temp Sensor/AOV Test Switch	1	nr			
G	CCTV Data Points	5	nr			
	Lighting					
H	Presence Detector	55	nr			
J	General Lights Landlord & Corridor	200	nr			
K	General Apartments	30	nr			
L	Moisture Proof Lights	2	nr			
M	External Bulkheads/Lighting	3	nr			
N	Switches	55	nr			
P	Exit Signs	4	nr			
Q	Emergency Lights (EM)	40	nr			
R	External Pole Lights	9	nr			
S	External Bollards	12	nr			
T	External Recessed Wall Light	5	nr			
	Fire Detection					
U	Smoke Heads	50	nr			
V	Fire Alarm Sounder	12	nr			
W	Manual Call Points	6	nr			
X	Heat Detector	10	nr			
Y	Interface Units	15	nr			
Z	Disabled Refuge	1	nr			
AA	Disabled Alarm	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extras					
A	Cable Tray	200	m			
B	Dado Trunking	15	m			
	Ventilation Services					
	Opes thro skimed plaserboard MF ceiling					
C	130mm dia	40	nr			
D	260mm dia	20	nr			
	Opes thro internal rendered blockwork wall structure approx 225mm thick;					
E	130mm dia	40	nr			
F	260mm dia	23	nr			
	Opes thro external 475mm insulated cavity wall with 100mm brickwork outer leaf and 215mmm solid blockwork inner leaf;					
G	130mm dia	38	nr			
H	260mm dia	12	nr			
	Opes thro reinforced concrete roof structure					
J	260mm dia	6	nr			
	Heating Centre					
	Plinths for Equipment					
	Insitu concrete plinths for equipment; include for all necessary concete, reinforcement and formwork; overall height 150mm					
K	3900 x 1400mm; plinth for outdoor heat pumps	1	nr			
L	2360 x 1080mm; plinth for outdoor heat pumps	1	nr			
M	1500 x 600mm; plinth for headers and pumps	1	nr			
N	1000 x 1000mm; plinth for booster pump	1	nr			
P	1400 x 1400mm; plinth for buffer Vessels	1	nr			
Q	1660 x 1660mm; plinth for calorifier	1	nr			
R	1500 x 500mm; plinth for buffer BMS panel	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	East Block - Mechanical Installation - All One Hour Fire Rating					
	Service Hatches					
A	Service/Maintenance Hatches; overall size 600 x 600mm	100	nr			
	Drainage					
B	Opes thro insitu concrete ground floor slab; 50mm diameter	4	nr			
C	Opes thro insitu concrete ground floor slab; 75mm diameter	2	nr			
D	Opes thro insitu concrete ground floor slab; 125mm diameter	8	nr			
E	Opes thro insitu concrete ground floor slab (Bin Store); 125mm diameter	1	nr			
F	Opes thro insitu concrete floor slab; 50mm diameter	12	nr			
G	Opes thro insitu concrete floor slab; 75mm diameter	12	nr			
H	Opes thro insitu concrete floor slab; 125mm diameter	30	nr			
J	Opes thro ceiling structure; 125mm diameter	16	nr			
K	Opes thro roof structure; 125mm diameter	6	nr			
	Water Distribution					
	Plinths for Equipment					
	Insitu concrete plinths for equipment; include for all necessary concete, reinforcement and formwork; overall height 150mm					
L	3450 x 1450mm; plinth for cold water tank	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	3500 x 2500mm; plinth for cold water tank	1	nr			
	Opes thro internal rendered blockwork wall structure approx 225mm thick;					
B	For water pipes; 75 x 75mm (1 No. pipe)	10	nr			
C	For water pipes; 75 x 150mm (2 No. pipe)	10	nr			
D	For water pipes; 75 x 225mm (3 No. pipe)	20	nr			
E	For water pipes; 75 x 300mm (4 No. pipe)	20	nr			
F	For water pipes; 75 x 400mm (5 No. pipe)	8	nr			
	Opes thro external 475mm insulated cavity wall with 100mm brickwork outer leaf and 215mmm solid blockwork inner leaf;					
G	For water pipes; 25 x 45mm (1 No. pipe)	1	nr			
	Opes thro skimed plaserboard MF ceiling					
H	For water pipes; 75 x 75mm (1 No. pipe)	1	nr			
J	For water pipes; 75 x 225mm (3 No. pipe)	16	nr			
K	For water pipes; 75 x 300mm (4 No. pipe)	17	nr			
	Opes thro reinforced concrete roof structure					
L	For water pipes; 100 x 400mm	1	nr			
	Space Heating					
M	Opes thro 215mm block walls for water pipes; 75 x 150mm (2 No. pipes)	78	nr			
N	Opes thro 215mm block walls for water pipes; 75 x 300mm (4 No. pipes)	5	nr			
P	Opes thro ceiling slab for water pipes; 75 x 150mm	68	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
Q	Testing		Item			
R	Surveys		Item			
S	Samples		Item			
T	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/20/1					
Page No. East/20/2					
Page No. East/20/3					
Page No. East/20/4					
Page No. East/20/5					
Page No. East/20/6					
EL (--) BUILDERS WORK **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (73) CULINARY FITTINGS					
	(73) CULINARY FITTINGS					
A	This element of the work has been measured from Architects Drawings 497		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	Fittings					
	Fittings, Equipment and Furniture					
	Fitted Units to Kitchens; manufacturer to Contractors choice; 18mm high pressure laminate MDF carcass. 18mm HPL MDF door. 18mm HPL MDF drawer front. 38mm high pressure laminate worktop. 120mm stainless steel finger pull handle. adjustable shelf supports. soft close cabinet hinge. powder coated steel drawer runners and sides. adjustable plinth feet. stainless sleet clad MDF plinth panel. framing - 44x50mm softwood. led channel light. painted hardwood packer to form. inclusive of base units and kick board; wall units, pelmet and coving. Inclusive of all doors, drawers, shelving, ironmongery, side panels, carcassing, plinths, legs, sealing etc. complete and allowing for all required grounds, fixings, cutouts for services, sinks wastes etc.. Dimensions: as shown on Architects Drawings. All as per Architects Drawings and Architect's specification N11					
F	Tiling measured under Internal Wall Finishes Element		Note			
	Apartment Type A - per drawing 497 & 540-542					
G	Base Unit 600mm wide x 3076mm long with 2 no enclosed cabinets and 1 Set of Drawers under	8	No			
H	Extra over for Cabinet for Integrated Washing Machine	8	No			
J	Extra over for Cabinet for Integrated Fridge	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	8	No			
	Apartment Type B (Accessible Kitchen Unit) - per drawing 499 & 542-543					
B	Base Unit 600mm wide x 2957mm long (Accessible Kitchen Unit)	3	No			
C	Extra over for Cabinet for Integrated Washing Machine	3	No			
D	Extra over for Cabinet for Integrated Fridge	3	No			
E	Extra over for Cabinet for Integrated Cooker / Oven	3	No			
F	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	3	No			
G	Wall Unit 350mm deep x 517mm wide x 750mm high (incorporating 1no storage cabinets)	3	No			
H	Full Height Storage Unit 600mm deep x 600mm wide x 2500mm high (Includes 1 Set of Drawers under)	3	No			
	Apartment Type C - per drawing 497 & 540-542					
J	Base Unit 600mm wide x 2957mm long with 1 no enclosed cabinets and 1 Set of Drawers under	4	No			
K	Extra over for Cabinet for Integrated Washing Machine	4	No			
L	Extra over for Cabinet for Integrated Fridge	4	No			
M	Wall Unit 350mm deep x 1800mm wide x 750mm high (incorporating 3no storage cabinets)	4	No			
N	Wall Unit 350mm deep x 517mm wide x 750mm high (incorporating 1no storage cabinets)	4	No			
P	Full Height Storage Unit 600mm deep x 600mm wide x 2500mm high	4	No			
	Extractor Hood					
Q	Supply and fit Bosch Series 4 or equivalent wall mounted cooker hood 60cm in stainless steel (code DWB65CC30B) as per MOMA Services Engineers Mechanical Specification and Schedule. Include for all necessary wiring, etc complete.	15	no			
R	Standard 150mm diameter duct from cooker hood., Include for all necessary fittings, bend, brackets etc complete.	75	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Neatly Core existing Insulated Cavity wall external wall (215mm rendered blockwork inner leaf & 100mm Brickwork outer leaf;- overall approx. 475mm wide for 150mm vent duct. Include for all necessary sealing around duct etc. complete.	15	no			
B	Suitable stainless steel vent covers fitted to extenal face of rendered masonary wall. Include for insect mesh etc complete.	15	no			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/21/1					
Page No. East/21/2					
Page No. East/21/3					
EL (73) CULINARY FITTINGS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (74) SANITARYWARE & HYGIENE FITTINGS					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	FITTINGS: Fittings Equipment and Furniture - [Sanitary Fittings]					
	Bath Set					
	Bath Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.355; Bath; "Bette Form" or equal and approved; no tap holes; fixed to floor; adjustable feet, product reference 2944; Size 1650 x 750 x 420/1170mm. Material: Enameled steel; Colour, White; Fittings; "Grohe Concetto" or equal and approved concealed bath and shower mixer; product reference 3550100; "Grohe Concetto" or equal and approved chrome Mixer Trim; product reference 19346001; "Grohe Atrio" or equal and approved chrome bath spout; product reference 13139003; "Grohe Tempesta 110" or equal and approved concealed chrome shower hose and rail; product reference 27598003; "Grohe" or equal and approved chrome shower outlet elbow; FIXING: all as per manufacturers instructions; SEALING; sealing joints between bath and wall with mildew resistant silicone					
A	overall size 1650 x 750 x 420/1170mm	15	nr			
	WC Set					
	WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.300; "Ideal Standard I Life B" or equal and approved back to wall bowl and seat; product reference E2608; Size 400mm wide x 355mm wide x 540mm projection; Material: bowl in white vitreous china to BS 3402. Colour, White; Cistern, "Ideal Standard Concealea 3" or equal and approved back to wall concealed cistern ; Product Reference S332667; Flush plate; "Ideal Standard Concealea" or equal and approved pneumatic flush, product reference S1082AA;					
B	overall size 400mm wide x 355mm wide x 540mm projection	20	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Washbasin Set					
	Washbasin Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.335; "Ideal Standard Portman 21" 50cm washbasin, single tap hole with overflow; product reference S2311; Size 500mm wide x 420mm wide x 195mm deep. Material: Wash hand basin in white vitreous china to BS 3402. Colour, White; Tap; "Ideal Standard Ceraline" or equal and approved chrome mixerer tap; Product Reference BC186AA; Trap, Ideal Standard or equal and approved bottle trap, product reference S8900; Waste, "Ideal Standard" or equal and approved chrome waste; Product Reference 27057000A; Valves.Ideal Standard or equal and approved thermostatic mixing valve, product reference A5900; Accessories: "Ideal Standard; or equal and approved wall mounting kit, product reference E0157; sealing joint between basin and wall with mildew resistant silicone					
A	overall size 500mm wide x 420mm wide x 195mm deep	19	nr			
	Washbasin Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.335A; "Ideal Standard Portman 21" 50cm washbasin, single tap hole with overflow; product reference S2157; Size 400mm wide x 365mm wide x 175mm deep. Material: Wash hand basin in white vitreous china to BS 3402. Colour, White; Tap; "Ideal Standard Ceraline" or equal and approved chrome mixerer tap; Product Reference BC186AA; Trap, Ideal Standard or equal and approved bottle trap, product reference S8900; Waste, "Ideal Standard" or equal and approved chrome waste; Product Reference 27057000A; Valves.Ideal Standard or equal and approved thermostatic mixing valve, product reference A5900; Accessories: "Ideal Standard; or equal and approved wall mounting kit, product reference E0157; sealing joint between basin and wall with mildew resistant silicone					
B	overall size 400mm wide x 365mm wide x 175mm deep	1	nr			
	Accessible Shower Set					
	Accessible Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.312"Armitage Shanks Concept Freedom pack (Chrome) complete, Product Reference S6407 AA					
C	generally	3	nr			

	Description	Qty	Unit	Rate	€	c
	Shower Set					
	Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.375A; "Ideal Standard Simplicity" or equal and approved ABS capped plastic rectangular shower tray, Product Reference L509401; Size 1210mm x 810mm x45mm; "Ideal Standard Ceratherm" or equal and approved chrome mixer; product reference A7202AA; "Grohe Tempesta 110" or equal and approved chrome shower hose and rail, product reference 27598003					
A	overall size 1210 x 810mm	2	nr			
	Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.375B; "Ideal Standard Simplicity" or equal and approved ABS capped plastic rectangular shower tray, size 910 x 810mm; Product Reference L509101; Size 910mm x 810mm x45mm; "Ideal Standard Ceratherm" or equal and approved chrome mixer; product reference A7202AA; "Grohe Tempesta 110" or equal and approved chrome shower hose and rail, product reference 27598003					
B	overall size 910 x 810mm	2	nr			
	Shower Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.375C; "Ideal Standard Simplicity" or equal and approved ABS capped plastic quadrant shower tray; Product Reference L510001; Size 810mm x 810mm; "Ideal Standard Ceratherm" or equal and approved chrome mixer; product reference A7202AA; "Grohe Tempesta 110" or equal and approved chrome shower hose and rail, product reference 27598003					
C	overall size 810 x 810mm; quadrant shower tray	1	nr			
	Sink Units to Kitchens					
	Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.331B; "Franke" or equal and approved polished stainless steel sink with left hand drainer complete with with basket strainer waste, trap and plumbing kit;; Product Reference BXC 211-86 LHD; Size 860mm x 480mm; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays, Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
D	overall size 860 x 480mm	9	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.331C; "Franke" or equal and approved polished stainless steel sink with right hand drainer complete with with basket strainer waste, trap and plumbing kit;; Product Reference AZN 611-100 REV; Size 1000mm x 500mm; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays, Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
A	overall size 860 x 480mm	8	nr			
	Accessible Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.331D; "Granberg Trendline" or equal and approved polished stainless steel accessible sink with right hand drainer complete with with basket strainer waste, trap and plumbing kit;; Product Reference EST-3401BR; Size 780mm x 500mm x 120mm deep; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
B	overall size 860 x 480mm	3	nr			
	Floor Drains					
	Floor Drains; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.312. Manufacturer: Contractors Choice Submit Proposal. Product reference: Shower floor gullies. Circular pattern, stainless steel, easi clean type. suitable for vinyl anti slip floor sheeting including trapping ring. Gully body: Grade 304 Stainless steel. Complete with min 50 mm Stainles Steel removeable bell trap directly over 110 OD outflow pipework to C/S Engineers drawings & specifications. Grating: stainless steel. Fit vertically accessible stainless steel bell trap below gulley and before connection to outfall pipework to prevent odours. all as per Architects specification					
C	generally	3	nr			
D	Extra for forming recessed shower tray in screed to falls	3	nr			

	Description	Qty	Unit	Rate	€	c
	Accessories					
	Toilet Roll Holders					
	Toilet Roll Holders; "Ideal Standard IOM" or equal and approved chrome toilet roll holder; Product Reference A9132AA					
A	generally	20	nr			
	Mirrors					
	Float glass mirror, silvered to give maximum reflection and free from tarnishing, discoloration, scratches and other defects; size - 500mm wide x 800mm high; thickness - 6 mm; lead foil or aluminium backing; 6mm polished bevel edge treatment; fixed with double sided self-adhesive pades at 400mm centres; all as per Architects specification clause N10/1 (e)					
B	1730mm wide x 1340mm high x 6mm thick (Unit Type A)	8	nr			
C	1730mm wide x 1340mm high x 6mm thick (Unit Type B)	3	nr			
D	1650mm wide x 1340mm high x 6mm thick (Unit Type C)	4	nr			
E	900mm wide x 1395mm high x 6mm thick (Unit Type D)	1	nr			
F	1490mm wide x 1395mm high x 6mm thick (Unit Type E)	1	nr			
G	1350mm wide x 1550mm high x 6mm thick (Unit Type F)	1	nr			
H	1350mm wide x 1550mm high x 6mm thick (Unit Type G)	1	nr			
J	1494mm wide x 1395mm high x 6mm thick (Unit Type H)	1	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
K	Testing		Item			
L	Surveys		Item			
M	Samples		Item			
N	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
P	Testing		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Surveys		Item			
B	Samples		Item			
C	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/22/1					
Page No. East/22/2					
Page No. East/22/3					
Page No. East/22/4					
Page No. East/22/5					
Page No. East/22/6					
EL (74) SANITARYWARE & HYGIENE FITTINGS Carried to Summary					

	Description	Qty	Unit	Rate	€	c
	EL (76) STORAGE, SCREENING FITTINGS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 120-123, 480 - 482, 516, 535,		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	G-04 Corridor 2					
	Seating					
	Seating complete, consisting of 25 x 125mm solid oak edge to back and sides of seat. Softwood framing to seat. Fabric upholstered foam seat formed on ply base. Solid Hardwood panelling. Include for forming 20mm shadow gap, decoration, fittings, brackets, ironmongery etc. complete, all per Architect's Drawing 516 to Specification					
F	Overall 3,910mm long x 750mm high x 630mm wide	1	No.			
	Open Shelving / Box Unit next to Seating complete, 44 x 50mm Softwood framing. 25mm hardwood lipped and over veneered MDF base, back and top. Solid Hardwood panelling approx 200mm high skirting. Include for forming 20mm shadow gap, decoration, fittings, brackets, ironmongery etc. complete, all per Architect's Drawing 516 to Specification					
G	Overall 1,500mm long x 750mm high x 440mm wide	1	No.			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Bedrooms					
	Wardrobes					
	Wardrodes complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. 20 X 30 hardwood battens. Include for all necessary framing to back of units, stainless steel hanging rails, shelving, decoration, ironmongery etc. complete, all per Architect's Drawing 535 to Specification Clause N10					
A	Wardrobe with 1no. Single door overall 650mm wide x 600mm deep x 2500mm high	8	No			
B	Wardrobe with sets of double doors overall 2990mm wide x 600mm deep x 2200mm high	3	No			
C	Wardrobe with sets of double doors overall 3225mm wide x 600mm deep x 2200mm high	4	No			
	Bulkheads / Boxouts					
	Bulkheads / boxouts; Foil backed plasterboard, include for all necessary carbon steel support framework, treated softwood support framework / battens, all joints scrimmed and finished with 3mm skim coat of finishing plaster. Also include for all necessary insulation, stainless steel angle beads, sealing etc. complete, all as per Architects Drawing 535 and Specification					
	Form Bulkhead over;					
D	Wardrobes:- overall 600mm deep x 300mm high (8 No locations)	6	m			
E	Wardrobes:- overall 600mm deep x 600mm high (7 No locations)	22	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	Prepare and apply; Dulux D154 or Equivalent. Surfaces: plasterboard. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalentand all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110A					
	Bulkheads					
A	< or = 300mm wide	6	m			
B	> 300mm wide	14	m2			
	Fire Blankets					
C	Supply and fix to stud wall Fire Blanket to S.I.137, include for all necessary fittings, grounds to wall, etc complete,all to the satisfaction of the Architect.	15	No.			
	Shelving all as per Architect's Architects Specification					
	Airing Cupboard shelving all as per Architect's Drawings, include for all necessary, grounds, fixings, brackets, etc. complete					
D	70mm x 45mm softwood shelf support runners fixed to face of stud wall.	8	m			
E	50mm x 25mm soft wood batten fixed to shelf support runners (slewhere measued) at 100mm centres	7	m2			
	Store shelving all as per Architect's Drawings, include for all necessary, grounds, fixings etc. complete					
F	2 rows of solid Timber Shelving 400mm wide x 2400mm long, including all necessary brackets etc. complete.	1	No.			
G	2 rows of solid Timber Shelving 400mm wide x 4700mm long, including all necessary brackets etc. complete.	2	No.			
	SIGNAGE					
	Supply and fixing of all signage. Refer to Architects Drawing 710 and Specification, for signage sizes, graphics, font, lettering, images and colours. Include for all necessary fizings grounds etc. complete					
H	Locations of signage per Architects Signage Plan 700 to 703		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	DVR Ground Floor Signs					
A	Type 1 - Room Labels	13	No			
B	Type 2 - Toilet Block Graphics	5	No			
C	Type 3 - Information Panel for Whole Building	1	No			
D	Type 4 - Information Panel Outside Lift	1	No			
E	Type 5 - Apartment Numbers (Above Doors)	3	No			
F	Type 6 - Front Door Sign	1	No			
G	Type 7 - Induction Loop	1	No			
H	Type 8 - Reuge Areas	1	No			
J	Type 9 - Apartment Numbers (On Doors)	1	No			
	DVR 1st Floor Signs					
K	Type 1 - Room Labels	9	No			
L	Type 2 - Toilet Block Graphics	6	No			
M	Type 4 - Information Panel Outside Lift	1	No			
N	Type 5 - Apartment Numbers (Above Doors)	4	No			
P	Type 8 - Reuge Areas	2	No			
	DVR 2nd Floor Signs					
Q	Type 2 - Toilet Block Graphics	6	No			
R	Type 4 - Information Panel Outside Lift	1	No			
S	Type 5 - Apartment Numbers (Above Doors)	4	No			
T	Type 8 - Reuge Areas	2	No			
U	Type 9 - Apartment Numbers (On Doors)	5	No			
	DVR 3rd Floor Signs					
V	Type 1 - Room Labels	5	No			
W	Type 2 - Toilet Block Graphics	1	No			
X	Type 4 - Information Panel Outside Lift	1	No			
Y	Type 5 - Apartment Numbers (Above Doors)	4	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Type 8 - Reuge Areas	1	No			
	Blinds					
	Blinds To Apartments					
	Manually operated roller blinds. By Silent Gliss Ltd or equivalent. Roller Blind - Chain Operated - Silent Gliss SG 4910 (Dimout) or equivalent. To BS EN 13120. Headrail. Material: Anodized aluminium. Colour: White. Blinds Material: Trevira CS flame retardant. Colour: Allow for full colour range. Tube. Material: White powder coated aluminium. Diameter: 41mm. Operation: Chain operated, left or right hand operation. Operating effort: Class 1. Testing: Class 2. Mechanism endurance: 5000 cycles. Execution: Installing blinds.. Bottom bar material/ Colour: Maximum weight: 3 kg. Barrel diameter: 41 mm. Barrel: Anodized aluminium. Material: Steel with plastic bracket covers. Size: 46 x 43 mm. Material: Stainless steel. Fire performance. Rating: B-s 1 d0 (EN 13501-1), complete all as per Architect's specification N20/240					
	To suit ope sizes: (all to be measured on site and confirm final dimensions)					
B	Type WF - Window size to suit structural ope 1360mm wide x 2260mm high	4	No			
C	Type WG - Window size to suit structural ope 6310mm wide x 2240mm high	1	No			
D	Type WH - Window size to suit structural ope 1360mm wide x 2810mm high	1	No			
E	Type WJ - Window size to suit structural ope 1810mm wide x 1360mm high	1	No			
F	Type WK - Window size to suit structural ope 1585mm wide x 1360mm high	2	No			
G	Type WM - Window size to suit structural ope 1585mm wide x 2260mm high	10	No			
H	Type WN - Window size to suit structural ope 1360mm wide x 2260mm high	25	No			
J	Type WP - Window size to suit structural ope 1810mm wide x 2250mm high	6	No			
K	Type WQ - Window size to suit structural ope 1135mm wide x 2260mm high	3	No			
L	Type WL - Window size to suit structural ope 1135mm wide x 2260mm high	4	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. East/23/1					
Page No. East/23/2					
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Page No. East/23/5					
Page No. East/23/6					
EL (76) STORAGE, SCREENING FITTINGS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
EL (19) SUBSTRUCTURE	East/1/17				
EL (22) INTERNAL WALLS	East/2/9				
EL (23) FLOORS, GALLERIES	East/3/6				
EL (27) (28) ROOF & FRAME	East/4/9				
EL (24) STAIRS, RAMPS	East/5/4				
EL (21) EXTERNAL WALLS	East/6/8				
EL (31) EXTERNAL WALL COMPLETIONS	East/7/15				
EL (32) INTERNAL WALL COMPLETIONS	East/8/14				
EL (33) & (34) FLOOR & STAIR COMPLETIONS	East/9/4				
EL (37) ROOF COMPLETIONS	East/10/5				
EL (41) WALL FINISHES EXTERNALLY	East/11/8				
EL (42) WALL FINISHES INTERNALLY	East/12/17				
EL (43) FLOOR FINISHES	East/13/7				
EL (44) STAIRS FINISHES	East/14/7				
EL (35) & (45) SUSPENDED CEILINGS & FINISHES	East/15/6				
EL (47) ROOF FINISHES	East/16/7				
EL (59) MECHANICAL INSTALLATION	East/17/20				
EL (69) ELECTRICAL INSTALLATION	East/18/30				
EL (66) TRANSPORT INSTALLATION	East/19/6				
EL (--) BUILDERS WORK	East/20/7				
EL (73) CULINARY FITTINGS	East/21/4				
EL (74) SANITARYWARE & HYGIENE FITTINGS	East/22/7				
EL (76) STORAGE, SCREENING FITTINGS	East/23/7				

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
TOTAL AMOUNT TO SUB - SUMMARY					
Note: This Bill of Quantities contains pages numbered East/ 1/1 - East/23/7 . The Sub-Contractor should ensure that...					

WEST BLOCK

SOCIAL HOUSING

	Description	Qty	Unit	Rate	€	c
	El (19) SUBSTRUCTURE					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
F	For details of ground conditions refer to Site Investigation Report included with Tender Documentation.		Note			
G	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
H	All the works are to be carried out in such a manner as to ensure the safety of the works adjoining properties, the public and contractors rates shall include for all necessary precautions.		Item			
J	The Contractor is advised that all works within the Exclusion Zones around Protect Trees on site must be done by hand. No mechanical digging etc. is permitted within these zones. Contractor is to include here for any additional costs carring out any of the works listed below within the Exclusion Zones. Where applicable Exclusions Zones are indicated on Architect's Drawings		Item			
K	General bulk excavation works to be carried out to Formation Level as measured in Prepared Site Element		Note			
	Ground Investigation Report					
L	Refer to Site Investigaiton Report for details of ground conditions including Trial Pit and Bore Hole locations		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Condition Survey					
A	Prior to commencement of the Piling Works, the Contractor must carry out and provide Condition Surveys/Reports to the Employers Representative for any Existing Buildings and walls within 15m of proposed piling works. Visible defects and cracks shall be noted and recorded. The external building envelopes, together with the internal walls and floors shall be included in the Condition Survey.		Item			
	Vibration Monitoring					
B	Contractors are to allow for all vibration monitoring of adjoining properties and adjoining site boundary walls during piling works and are to allow here or elsewhere within their tender for all costs associated with same and all in strict accordance with Engineers Specification		Item			
	Piling					
C	The piling work of this contract will be undertaken as a domestic sub-contract package under the main contract subject to Structural Engineers Design approval		Note			
D	The following piling works are to be carried out by the Contractors own piling specialist who will be responsible for design, supply, installation and testing of piles including providing Collateral Warranties on Design element of Sub-Contractors Work		Item			
E	The Specification for Piling for this project is per the Engineers Drawings & Specification		Note			
F	DESIGN RESPONSIBILITY: The Engineers Drawings and Specifications are indicative of the Design intent and define the performance criteria. The Specialist Piling Contractors shall be responsible for developing and completing the Design in accordance with the above and other contract documents, taking into account any additional criteria which, with his specialist knowledge, he believes are relevant. The Specialist should refer to drawings prepared by Punch Consulting Engineers which describe the primary building structure which will be the basis of the Piling Design prepared by the Specialist. The Specialist can put forward alternatives for consideration by the Engineer. Additionally any suggested solutions described on the Engineers Drawings shall not in any way relieve the Specialist from his responsibility for the Design and Construction of the whole of the Piling Works		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	The Pricing Document to be read in conjunction with the Engineers Drawings, Piling Specification and Ground Investigation Report		Note			
B	All piles to be designed to I.S. EN 1997		Note			
C	Concrete grade to be as per Engineer's Specification. The required pile method of installation and design life to be in accordance with Atkins Consulting Engineers piling Specification		Note			
D	For concrete exposure classes refer to the relevant piling and concrete specifications		Note			
E	The contractor shall confirm in his Tender return that the Site Investigation information provided is adequate for his construction. If he is concerned about its adequacy, his Tender should list his concerns and include proposals for any additional Ground Investigation		Note			
F	The contractor should review the Site Investigation information and submit with his tender all relevant details of the method(s) proposed for dealing with man-made and natural obstructions and voids		Note			
G	Refer to Foundation GA Layout Drawings for pile cut-off levels		Note			
H	Contractors are to take note of ground conditions described in GI reports in assessing their need for and design of piling platforms	1	Item			
J	Refer to Site Investigation Report for remarks on Ground Water results from Site Investigation Trial Pit Logs and date established. Seasonal/tidal fluctuation may occur.	1	Item			
	Piling					
K	Allow for computer simulation to determine the choice of suitable pile driving equipment and to be carried out before commencement of pile driving, and all as per Engineers Specification	1	Item			
	Mobilise and demobilise					
L	On site	1	Item			
M	At each pile	119	No.			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Provide, pitch and drive complete 450mm dimaeter CFA piles (C32 / 40 concrete)to Contractor Specialist Design , all as per Engineers Drawings and Specification.					
	Pile Depths at 15m BGL					
A	Pile Type P1 with SWL(kN) of 1205	119	No			
	Testing					
B	Allow for Integrity Testing at each pile (100%)	119	no			
C	Allow for carrying out Dynamic Testing by a Specialist to be approved by the Engineer and all as Specified (20%)	30	No.			
D	Allow for Static Load test to be carried out by maintained load on 3 no. piles, per Engineers Specification	1	Item			
E	Trim down top of piles to required level and bend back reinforcement complete including disposal off site of pile offcuts and per Engineers Specification.	119	No.			
F	Disposal of Excavated Material off site	362	m3			
G	Piling around all existing services	1	Item			
H	Allow for protection and maintenance of all public roadways, footpaths, kerbs etc	1	Item			
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
	EXCAVATION & EARTHWORK					
	Starting Levels					
	The starting level for excavation measurement is the existing ground level					
	Excavation					
	Excavation					
	Foundation trenches					
J	Depth <2.00m	266	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Isolated Pits (Lift Pit & Staircore)					
A	Depth <2.00m	96	m3			
	Pile Caps (50No)					
B	Depth <2.00m	209	m3			
	Extra on excavation items for:					
C	Excavating around existing services, parallel / next / alongside excavations	30	m			
D	Excavating around existing services, crossing excavations; ESB	5	No			
E	Excavating around existing services, crossing excavations; Eircom	5	No			
F	Excavating around existing services, crossing excavations; Watermain	5	No			
G	Excavating around existing services, crossing excavations; GAS	5	No			
H	Excavating around existing services, crossing excavations; Foul	5	No			
J	Excavating around existing services, crossing excavations; Surface	5	No			
K	Next to existing buildings;	16	m			
	Working space excavation; backfillng with crushed stone, Clause 804 specification; deposited in layers 150mm thickness; compacted by mechanical means					
	Foundation trenches					
L	Depth <2.00m	731	m2			
	Isolated Pits					
M	Depth <2.00m	79	m2			
	Pile Caps (50No)					
N	Depth <2.00m	490	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Disposal					
	Water					
A	Surface water	1	Item			
B	Ground water	1	Item			
	Excavated material; Unsuitable					
C	Off site to a licensed tip	571	m3			
	Filling					
	Imported material; granular fill materials; compacting in 225mm thick layers					
	To excavations					
D	> 250mm thick T1 Structural Fill to Annex E of SR 21	92	m3			
	To make up levels					
E	< 250mm thick T2 Permeable Hardcore to Annex E of SR 21	207	m3			
F	> 250mm thick T1 Structural Fill to Annex E of SR 21	476	m3			
	Soft Spots					
G	> 250mm thick T2 Structural Fill to Annex E of SR 21	30	m3			
	CONCRETE WORK					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
H	generally	1	Item			
	IN-SITU CONCRETE					
	Reinforced poured concrete; Grade C12/15					
J	Blinding	18	m3			
K	Ditto soft spots	10	m3			
	Reinforced poured concrete; Grade C32/40, Exposure Class XC2/XC4 (External)					
L	Ground beams incl pile caps	236	m3			
M	Isolated foundations (Lift Pit & Staircore)	57	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Reinforced poured concrete; Grade C30/37, Exposure Class XC2/XC4 (External)					
	Slabs					
A	>150mm thick: reinforced	207	m3			
	Walls					
B	>150mm thick: reinforced	16	m3			
	Columns					
C	<0.10m2 cross sectional area	2	m3			
D	>0.10m2 cross sectional area	4	m3			
	Coulumn casings					
E	>0.10m2 cross sectional area	3	m3			
	Upstands and the like					
F	Cross sectional area < 0.10m2	2	m3			
	Projecting nib					
G	Cross sectional area < 0.10m2	1	m3			
	Screed; laid to falls and crossfalls					
H	>150mm thick: non structural	55	m3			
J	Screed infill to slab recesses; <100mm high; to falls	7	m2			
K	EO for 50mm diameter weep holes at 1m c/c to base of in-situ walls	53	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Sundries					
	Isolation Joints (IJ)					
	Perimeter of concrete slab isolation joint; underslab insulation; type: agrement certified for use under ground bearing slabs; Thickness 20 mm; Compressive strength (minimum) 140 kPa at 10% compression; Thermal conductivity (maximum) 0.022 W/(mK);30mm thickal to Architects specification clause E20/215; form 20 x 12mm surface groove in in-situ concrete floor slab, to be filled with two part polysulphide seal; forming joint between floor and wall all in accordance with the Works Requirements and Architects specification					
A	Horizontal; to external walls 150-300mm	194	m			
B	Horizontal; around columns 150-300mmmm	45	m			
	Designed joints; form 12mm wide expansion joint in concrete					
C	5mm thick x 20mm deep saw cut joint, filled with polyethylene joint filler, 12 x 20mm deep hot poured mastic asphalt joint sealer and necessary masking tape	48	m			
	Surface finishes					
D	Powerfloat / brush finish in-situ concrete beds / slabs / screeds	1643	m2			
E	EO to falls & cross falls	196	m2			
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
F	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	18.07	tonne			
	Steel fabric reinforcement to engineers specification					
	Fabric					
	Reference A252; 3.95 kg/m2, 400mm laps between all adjoining sheets to Engineers specification					
G	Horizontal; GF slab	1840	m2			
	Reference D46; wrapping columns					
H	Vertical; wrapping columns	31	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	FORMWORK					
	Wrot formwork as described to Engineer's specification to : -					
	Sides of foundations					
A	height <250mm	25	m			
B	Height 250 - 500mm	574	m			
C	height >500mm	214	m2			
	Slab					
D	height <250mm	194	m			
E	EO curved	6	m			
	Form recess in slab					
F	2500 x 1300mm on plan; <250mm high	1	no			
G	2000 x 1500mm on plan; <250mm high	1	no			
H	300 x 300 x 300mm lift pit sump; including outlet	1	nr			
	Thresholds					
	Height < or = 250mm					
J	Thresholds	3	m			
	Sides of upstands and steps in top surfaces					
K	height <250	10	m			
L	height 250 - 500mm	30	m			
M	Form chamfer 25mm x 25mm to upstands	40	m			
	Kickers to:-					
N	Walls	40	m			
P	EO curved	6	m			
Q	Columns rectangular	65	No			
	Walls					
R	Vertical < 4.00m high	113	m2			
S	EO curved	10	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Edges of openings					
	Walls					
A	Area of opening not exceeding 1.00m2	2	no			
B	Area of opening 1.00 - 5.00m2	2	no			
	Suspended slabs					
C	Area of opening not exceeding 1.00m2	24	no			
D	Area of opening 1.00 - 5.00m2	3	no			
	Columns (Stub)					
	Isolated					
E	rectangular	60	m2			
	Column casing (Stub)					
	Isolated					
F	rectangular	41	m2			
	Sundries					
G	Allow for casting in 100mm diameter sleeves through 250mm thick concrete walls for incoming services	2	no			
H	Allow for casting in 150mm diameter sleeves through 200mm thick concrete walls for incoming services	2	no			
J	Allow for casting in 225mm diameter sleeves through 250mm thick concrete walls for incoming services	2	no			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Walls					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
K	100mm thick	101	m2			
L	EO curved	5	m2			
M	215mm thick	233	m2			

	Description	Qty	Unit	Rate	€	c
A	550mm thick	144	m2			
	Labours					
	On blockwork					
B	generally		Item			
	Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13.5N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
C	100mm thick	12	m2			
D	215mm thick	54	m2			
	Labours					
	On blockwork					
E	generally		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Brickwork					
	Walls					
	Clay facing brickwork to external walls (215 x 102.5 x 65mm units) Type A; ; DESCRIPTION; Handmade, fired clay, facing brick with with sanded finish; Manufacturer; Clay & Co. or equivalent; PRODUCT REFERENCE; Warnham Teracotta Manor Bricks or equivalent; COLOUR; Red brick colour with patches of slight colour variation; TEXTURE; Slight wrinkles in surface distinctive of handmade bricks; CONFIGURATION; Solid; MOULD RELEASE PROCESS; Sand applied to clat clot prior to insertion in mould. Machinemoulded handmade process of applyingsand to the mould is not acceptable; TYPE: Frogged; SPECIAL SHAPES: Measured seperately below; MORTAR: As specification clause Z21; - Standard: to BS EN 998-2; - Mix: Moderately hydraulic HLM3.5; Additional requirements: Reaction to fire class: A in accordance with I.S. EN 13501-1: 2002 - use locally sourced granite sand to achieve indigeneous mortar appearance; BOND: Half lap stretcher; JOINTS: Flush pointing as the work proceeds; APPROVAL: brick subject to sample approval; MIX/BLEND: mix from a minimum of 3 packs concurrently to avoid any possible colour banding; PROTECTION: protection against inclement weather, bricks arriving on site should be stored in a clean dry place and covered; Newly built brickwork must also be covered in order to prevent the possibility of efflorescence and the washing out of mortar joints; all in accordance with the Works Requirements and in particular Architects specification clause F10 110B					
	102.5mm thick					
A	generally	48	m2			
	Labours					
	On brickwork					
B	generally	1	item			

	Description	Qty	Unit	Rate	€	c
	Design Joints					
	Joints with Reinforced Concrete Walls / Columns					
	Provide and install flat stainless steel tie, with debonding sleeve @ 450mm centres verticallly & fixed to reinforced concrete wall / column using 8mm stainless steel bolt at 450mm centres, loading capacity 1.20kN/m height. Include also for 10mm thick closed cell polyethylene sealed with mastic pointing both sides, corner chamfer / rebate to Architect's detail and all as per Engineers Drawings					
A	100mm blockwork to concrete walls / columns	10	m			
B	215mm blockwork to concrete walls / columns	127	m			
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Forming cavities					
	Partial fill cavity insulation to external cavity wall; 230mm wide cavity; WALL TIES: Double triangle type or other equal or equivalent stainless steel wall ties complying with IS EN 845-1:2013 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings; INSULATION: 180mm thick insulation PIR board, product to have BBA Certification, and to be certified to BS EN ISO 9001 Quality Management System, and to BS EN ISO 14001 Environmental Management System. Manufactured to EN 13165, to achieve a U value of 0.18W/m2K for the wall element, all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause					
	Between new walls					
C	180mm wide	122	m2			
D	EO curved	5	m2			
	At thresholds					
E	30mm wide x 210mm high	15	m			
	Thermal bridge mounting block, to structure to support door frame and threshold.					
F	120mm high x 75mm wide	15	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Insulation					
	Xtratherm Thin-R XT/UF Under Floor Insulation. Maximum Conductivity of 0.022 W/mK or better as required to meet the performance requirements. Compressive strength (at 10% compression): min. 140kPa in areas as appropriate to accommodate the loading requirements. All in accordance with the Works Requirements and Architects specification P10					
	Insulation to cavity below GL Thermal					
A	150mm thick horizontal	920	m2			
B	Ditto; fixed vertically behind R.C. lift pit / staircore walls / walls	69	m2			
C	EO curved	5	m2			
D	Ditto; fixed vertically against rising walls	203	m2			
	Roofing, Cladding and Waterproofing					
	DPC / Cavity Trays					
	Gas resistant DPCs / Cavity tray; Product to have Agrement Certification, and to meet the following performance characteristics; Material Type: Virgin blend LDPE; Thickness: 500 microns; Radon Permeability: 7.9 x 10-12 m2/s; Tensile strength >350N/50mm; Weight: 460 g/m2; Tear Resistance >200N; MVTR : <0.3 g/m2/day; all in accordance with the Works Requirements and Architects specification; Seal at joints to architects specification with 150mm laps fully bonded with adhesive recommended by dpc manufacturer and sealed at joints with in accordance with the manufacturer's written instructions					
E	Width < 225mm	575	m			
F	Width > 225mm	171	m2			
G	Extra over for sealed tape in fixing to blockwork	421	m			
	Waterbars					
	Adcor 550MI or equivalent per Engineers Specification					
H	Horizontal	40	m			
J	Vertical	16	m			
K	Angles	10	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Pipe					
A	Corrugated perforated hdpe pipe 100mm diameter or equivalent; wrapped with geotextile membrane; plastic tie and covered both ends with geotectile membrane; bebded in granular materials as per manufacturer instruction.	234	m			
	Waterproofing					
	Prepruffe Plus or equivalent per Engineers Specification; laying and laps in strict accordance with the manufacturers instructions					
	Horizontal					
B	> 300mm width; to blinding base	48	m2			
C	> 300mm width; to toe of base (top)	22	m2			
D	> 300mm width; extending min 1000mm width to lap with radon barrier	32	m2			
	Vertical					
E	> 300mm width; to edge of base	47	m2			
F	> 300mm width; to face of RC walls	36	m2			
	GCP Protection (or equivalent) on Preprufe 800PA (or equivalent) on Preprufe SC1 Primer (or equivalent)					
	Vertical					
G	> 300mm width; to edge of base	47	m2			
H	> 300mm width; to face of RC walls	36	m2			
	Sealing around Pipe Collars					
J	100mm diameter	5	No			
K	150mm diameter	5	No			
L	225mm diameter	5	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Radon Membrane					
	Loose laid polyethylene gas retardant damp proofing (radon barrier) laid on blinding (elsewher measured); Product to have Agrement Certification, and must fulfill the following performance requirements: Product to incorporate at least 4 layers, with lower outer layer of blown LDPE, a reinforcing layer, and upper layers;Thickness:.355 microns (effective thickness); Nominal Weight per unit area: 355 g/m2; Tensile Strength (N/50mm): Machine Direction - 480 ; Cross Direction - 450; Tear Resistance (N): machine Direction - 405 ; Cross Direction 425; Puncture Resistance (N) : 1130; Reinforcement: Multifilament Polyester129mm x 2mm; Reinforcement Decitex Value : 1100; all in accordance with the Works Requirements and Architects specification; Seal at joints to architects specification with 150mm laps with adhesive recommended by dpc manufacturernd sealed at joints with in accordance with the manufacturer's written instructions					
	Radon Barrier					
	Width > 300mm					
A	Horizontal	920	m2			
B	Vertical	155	m2			
	"Monarflex radon resisting membrane RMB 400" top hat units with clips; fully bonded and sealed at joints in accordance with the manufacturer's printed instructions and Architects specifications 45-65-50/325.: Preformed 0.5mm min HDPE top hat to all single penetrations and all other penetrations use two component bitumen and modified silicone polymer liquid radon sealant with denisty 0.93+/-0.02 g/vm3. (For visual appearance product ref Icopal Necoflex Easi-Pour Liquid Radon Sealant or equivalent)					
	Collars around pipes, standards and the like					
	Diameter					
C	< or = 50mm	32	nr			
D	< or = 110mm	32	nr			
E	< or = 150mm	32	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Non perforated gas collection pipes; Manufacturer:Contractor to submit proposals; Product to have Agrement Certification, for proposed purpose.; Material: High-density polyethylene (HDPE), non perforated with ring seals joints to BS EN 681-1; Outside diameter size: 110 mm. all in accordance with the Works Requirements and Architects specification					
	Pipes					
	110mm diameter					
A	In trenches	64	m			
	Extra over pipes on which they occur for					
B	Bends; 87.5 degrees	16	nr			
C	Radon duct capping detail; at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm	8	nr			
	Plastic Depressurisation sumps; Manufacturer: Contractor to submit proposals; Product to have Agrement Certification, and must fulfill the following performance requirements: Material: Medium Density Polyethylene.; Diameter of the open base: 283.5 mm; Overall Depth: 149 mm; Short Term Creep Test: Mean deflection at 480N is 6.96mm; Compression Test Result: Mean deflection at 10,260N = 27.33mm; Ground level Termination: System capping detail, at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm; all in accordance with the Works Requirements and Architects specification					
	Chambers					
D	Sump & Sump Cap-Link	8	nr			
	Holding Down Assemblies					
	4 nr. M25 grade 8.8 HRH holding down bolts 600mm long complete with 70mm diameter uPVC sleeves, 2 nr. 550mm long 90 x 90 x 8.0 RSA angles and 1 nr. 400mm long cross brace to form H-frame, cast into reinforced concrete foundations; all bolts welded to RSA H-frame					
	Cast into concrete					
E	generally	96	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Grouting					
	5 star non-shrink grout					
	Holding down bolts					
A	M25 x 600mm holding down bolts in 70mm diameter uPVC sleeves	96	nr			
	Epoxy mortar; steel shims for grouting and the like					
	Base Plates					
B	350 x 350 x 25mm thick	24	nr			
	Drainage Channels					
C	Type EHL.801 DRAINAGE CHANNEL 1. Stainless steel unobtrusive continuous brickslot drainage channel fixed flush to finish surface, for use against building facades as indicated on the Architectural Drawings. 2. Manufacturer: ACO Build (www.aco.co.uk), system or acceptable equivalent. a. Reference: ACO M200 0100 Brickslot Drainage Channel. 3. Drainage channels shall be to BS EN 1433. 4. The channels shall have a nominal size 100mm. 5. Finish: stainless steel. 6. Joints shall be sealed in accordance with the manufacturer's recommendations. 7. Cover grating shall be have a 20mm slotted offset drainage inlet. 8. Fixings shall be galvanised steel. 9. Loading grade shall be C250 medium duty. 10. Drainage channels shall include 200mm unions, end caps and gulley unit with mud bucket. Including all accessories as required per manufacturer's best practice installation - sumps, end caps etc. bedded in haunched concrete overal size 170 x 150mm high including all nessessary formork; all in accordance with the manufacturers instructions and Architects specification	3	m			
D	Extra; stop ends	2	No			
E	Extra; 90 degree bends	1	No			
F	Extra; intermediate outlet	1	No			
	Service Ope Detail Through Blockwork Rising Wall					
G	Form ope in 215mm thick rising blockwork for 1No 19mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	32	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Form ope in 215mm thick rising blockwork for 1No 50mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	32	No			
B	Form ope in 215mm thick rising blockwork for 1No 110mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	32	No			
C	Form ope in 550mm thick rising blockwork for 1No 150mm diameter pipe (measured elsewhere) including sealing void around pipe with compressible sealant to Architects Specification. Include for Grade 35 precast concrete lintels over as required per Engineers Specification.	32	No			
	Sundries					
D	Labour and material in cutting / fitting around rigid insulation board for all underground services pipes	1	Item			
	Internal Drainage below ground					
	Excavating trenches for pipes not exceeding 250mm nominal size, disposing of surplus excavated material by removing from site					
	Excavations; filling in above beds or coverings with selected imported granular fill as specified					
E	average depth 500 - 1000mm	333	m			
	Extra over excavating trenches irrespective of depth					
F	Breaking up existing rock; solid	1	Item			
G	Breaking up existing rock; rippable	50	m3			
	Beds and Surrounds; Pea Gravel					
	Beds					
H	400 x 150mm to 100mm diameter pipes	258	m			
J	450 x 150mm to 150mm diameter pipes	75	m			
	Surrounds					
K	400 x 250mm to 100mm diameter pipes	258	m			
L	450 x 300mm to 150mm diameter pipes	75	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	EO beds and surrounds; concrete grade C30/37					
	Beds					
A	400 x 150mm to 100mm diameter pipes	258	m			
B	450 x 150mm to 150mm diameter pipes	75	m			
	Surrounds					
C	400 x 250mm to 100mm diameter pipes	258	m			
D	450 x 300mm to 150mm diameter pipes	75	m			
	Pipework and Fittings					
	uPVC pipework and fittings to BS 4660 with flexible joints in the running length					
E	100mm nominal diameter	258	m			
	Extra over for					
F	90 deg bends / upstands	115	No			
G	Branches 100mm to 100mm	55	No			
H	Pop up; sealed; 40mm dia	40	No			
J	Pop up; sealed; 110mm dia	100	No			
K	150mm nominal diameter	75	m			
	Extra over for					
L	90 deg bends/upstands	15	No			
M	Sweeping bends	15	No			
N	Branches 150mm to 150mm	15	No			
	Disposal					
	Keeping the surface of the site and excavations free of					
P	Surface Water		Item			
Q	Ground Water		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
A	Testing	1	Item			
B	Surveys	1	Item			
C	Samples	1	Item			
D	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
E	Testing	1	Item			
F	Surveys	1	Item			
G	Samples	1	Item			
H	Warranties	1	Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/1/1					
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Page No. West/1/11					
Page No. West/1/12					
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Page No. West/1/15					
Page No. West/1/16					
Page No. West/1/17					
Page No. West/1/18					
Page No. West/1/19					
Page No. West/1/20					
Page No. West/1/21					
El (19) SUBSTRUCTURE **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (21) EXTERNAL WALLS					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	PRECAST CONCRETE					
	Prestressed Concrete Lintels bedded in approved sand cement mortar; all in accordance with Architects Specification & Engineers Specification					
	Include for all temporary propping until blockwork over is mature in accordance with the manufacturers instructions					
F	215 x 100mm Ref L1	304	m			
G	215 x 1215mm Ref L3	168	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Brickwork					
	Walls					
	Clay facing brickwork to external walls (215 x 102.5 x 65mm units) Type A; ; DESCRIPTION; Handmade, fired clay, facing brick with with sanded finish; Manufacturer; Clay & Co. or equivalent; PRODUCT REFERENCE; Warnham Teracotta Manor Bricks or equivalent; COLOUR; Red brick colour with patches of slight colour variation; TEXTURE; Slight wrinkles in surface distinctive of handmade bricks; CONFIGURATION; Solid; MOULD RELEASE PROCESS; Sand applied to clat clot prior to insertion in mould. Machinemoulded handmade process of applyingsand to the mould is not acceptable; TYPE: Frogged; SPECIAL SHAPES: Measured seperately below; MORTAR: As specification clause Z21; - Standard: to BS EN 998-2; - Mix: Moderately hydraulic HLM3.5; Additional requirements: Reaction to fire class: A in accordance with I.S. EN 13501-1: 2002 - use locally sourced granite sand to achieve indigeneous mortar appearance; BOND: Half lap stretcher; JOINTS: Flush pointing as the work proceeds; APPROVAL: brick subject to sample approval; MIX/BLEND: mix from a minimum of 3 packs concurrently to avoid any possible colour banding; PROTECTION: protection against inclement weather, bricks arriving on site should be stored in a clean dry place and covered; Newly built brickwork must also be covered in order to prevent the possibility of efflorescence and the washing out of mortar joints; all in accordance with the Works Requirements and in particular Architects specification clause F10 110B					
	102.5mm thick					
A	generally	1656	m2			
	Labours					
	On brickwork					
B	generally	1	item			
	Extra over for special bricks					
	Closer					
C	132.5 x 102.5 x 65mm	270	m			
	Pistol bricks and rebated stretchers to soffits as drawing 15DOM-511/597					
D	girth 150 - 300mm	460	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Walls					
	Clay facing brickwork to external walls (215 x 102.5 x 65mm units) Type A; ; DESCRIPTION; Handmade, fired clay, facing brick with with sanded finish; Manufacturer; Vandersanden or equivalent; PRODUCT REFERENCE; Lima 124AD or equivalent; COLOUR; Ivory White brick with shades of grey; TEXTURE; Slight wrinkles in surface distinctive of handmade bricks; CONFIGURATION; Solid; MOULD RELEASE PROCESS; Sand applied to clat clot prior to insertion in mould. Machinemoulded handmade process of applyingsand to the mould is not acceptable; TYPE: Frogged; SPECIAL SHAPES: Measured seperately below; MORTAR: As specification clause Z21; - Standard: to BS EN 998-2; - Mix: Moderately hydraulic HLM3.5; Additional requirements: Reaction to fire class: A in accordance with I.S. EN 13501-1: 2002 - use locally sourced granite sand to achieve indigeneous mortar appearance; BOND: Half lap stretcher; JOINTS: Flush pointing as the work proceeds; APPROVAL: brick subject to sample approval; MIX/BLEND: mix from a minimum of 3 packs concurrently to avoid any possible colour banding; PROTECTION: protection against inclement weather, bricks arriving on site should be stored in a clean dry place and covered; Newly built brickwork must also be covered in order to prevent the possibility of efflorescence and the washing out of mortar joints; all in accordance with the Works Requirements and in particular Architects specification clause F10 110B					
	102.5mm thick					
A	generally	261	m2			
	102.5mm thick; curved					
B	generally	102	m2			
	Labours					
	On brickwork					
C	generally	1	item			
	Extra over for special bricks					
	Closer					
D	50 x 102.5 x 65mm	495	m			
	Pistol bricks and rebated stretchers to soffits					
E	girth 150 - 300mm	206	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Blockwork					
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification					
	Inner Leaf Of External Walls					
A	225mm thick	2477	m2			
	Extra over for THERMAL BLOCKWORK; Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 7.5N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bond with neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
	215mm thick					
B	<300mm wide	178	m2			
	Labour on Blockwork					
C	Generally		Item			
	Bonding to Other Work					
D	215mm blockwork tied to Reinforced Concrete Columns / Walls. Include for "Abbey Anchor" Dovetail Slots to be Cast Into Reinforced Concrete Columns @ 225mm Vertically To Restrain Inner Leaf. All per Engineer's drawings & specification	165	m			

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Forming cavities					
	Full fill cavity insulation to masonary / in-situ concrete cavity wall; 130mm wide cavity; WALL TIES: vertical twist type stainless steel wall ties complying with BS 1243 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings; INSULATION: 120mm thick rigid phenolic foam insulation board with an outer facing of vapour open polypropylene fleece and a composite (perforated) foil on the inner face with a thermal conductivity of 0.018W/mk; all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause F30/150A					
	Between new walls (Block Inner leaf, and Brick Outer Leaf)					
A	130mm wide cavity	2018	m2			
	Extra over ditto between Reinforced Concrete Inner Leaf and Brick Outer Leaf					
B	130mm wide cavity	363	m2			
	Damp proof courses					
	Damp proof course to IS 57, Ruberiod Hy-Load Bituminous Polymer 1.10mm thick or equivalent; 200mm laps; sealed with and including poly-butyl rubber tape; all in accordance with the Works Requirements and in particular Architects specification clause F30/320A					
	Width < or = 225mm					
C	vertical	663	m			
	Width > 225mm					
D	horizontal [under cills and dressed around ends]	65	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Damp proof courses - [Preformed cavity trays]					
	Composite item; preformed aluminium cavity trays fixed to structure with and including thermal isolating pad and flashed at top with EPDM bonded to structure; all in accordance with the Works Requirements and in particular Architects drawing nr. 15DOM-503 & 504 and specification clause F30/370 & 380A					
	Cavity trays					
A	girth 450 - 600mm girth; stepped	799	m			
	Designed joints					
	Movement joints; expansion joints in blockwork 12mm wide; cleaning and priming both faces; preformed stainless steel bead jointed by original vertical jamb DPC; filling with polythene filler; extra wall ties; all in accordance with the Works Requirements					
	Designed joints					
B	vertical; 102.5mm thick brickwork	179	m			
	Sundries					
	Ventilation ducts in external walls; non-adjustable louvre grille, blades at 12.5mm centres, in square grade 316 stainless steel frame; all in accordance with the Works Requirements and in particular Architects drawing nr. 15DOM-587 and specification clause F30/171					
	Ventilation openings					
C	generally	96	nr			
	Peep weep hole with circular outlet, at maximum 1000mm centres and not less than 2 over each opening; all in accordance with the Works Requirements and in particular Architects specification clause F30/132					
	Weep holes					
D	generally	799	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork / Blockwork					
	Cavity Barriers					
	Mechanical cavity barriers; MANUFACTURER: Rockwool Ltd or equivalent Frie Pro SP Firestop EN (SP FireStop EN 60; STANDARD; to BS EN 1366-4:2021; TYPE; Rigid; ; FACING; Metal foil laminate; FIRE PERFORMANCE; TO E1 60 to BS EN 13502-2; RECYCLED CONTENT; 20-25%; REACTION TO FIRE; EuroclassA1 Non Combustible; THICKNESS; 75MM; WIDTH; 1200mm; LENGTH 1000mm; COLOUR ; Blackall in accordance with the Works Requirements and in particular Architects Specification Clause P10/432A					
	150mm thick cavity					
A	horizontal	487	m			
B	vertical	122	m			
	STRUCTURAL: Steelwork					
	PREFABRICATED STEEL LINTELS:					
	Ancon Nexus Steel lintel or similar with and including brick slip soffit with min. 225mm bearing. Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. - To be installed in accordance with manufacturers recommendations. Refer to architectural drawings for U-value requirements. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication					
	Lintels to suit 465mm wide cavity wall construction (consisting of 100mm outer leaf, 150mm cavity and 215mm inner leaf). Include for brick slips fixed to underside of lintel, complete					
C	Type L2	232	m			
	Support system for outer leaf brickwork/blockwork					
	Grade stainless steel angle and bracket support system; stainless steel angle (dead load 14kN/m) fixed to cast in channel using "T-head" bolts; all fixing in strict accordance with the manufacturers written instructions. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication					
	Support system to outer leaf brickwork/blockwork					
D	150mm cavity width	396	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	EO curved	11	m			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
B	Testing	1	Item			
C	Surveys	1	Item			
D	Samples	1	Item			
E	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
F	Testing	1	Item			
G	Surveys	1	Item			
H	Samples	1	Item			
J	Warranties	1	Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/2/1					
Page No. West/2/2					
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Page No. West/2/8					
EL (21) EXTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (22) INTERNAL WALLS					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	IN-SITU CONCRETE					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	Reinforced poured concrete; Grade C30/37, Exposure Class XC2/XC4 (External)					
	Walls					
G	>150mm thick: reinforced	124	m3			
	Projecting nib					
H	Cross sectional area < 0.10m2	1	m3			
J	EO for 50mm diameter weep holes at 1m c/c to base of in-situ walls	40	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	REINFORCEMENT					
	Reinforcement bars, to engineer's specification					
	Bar:Straight or bent					
A	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	16.3	tonne			
	Steel fabric reinforcement to engineers specification					
	FORMWORK					
	Wrot formwork as described to Engineer's specification to :-					
	Projecting nib to side of retaining walls					
B	200mm wide x 250mm high	15	m			
	Kickers to:-					
C	Walls	158	m			
D	EO curved	22	m			
	Walls					
E	Vertical > 4.00m high	991	m2			
F	EO curved	129	m2			
G	EO for special class concrete finish to exposed concrete walls per Architects Spec E00/100	391	m2			
H	EO curved	65	m2			
	Edges of openings					
	Walls					
J	Area of opening not exceeding 1.00m2	8	no			
K	EO for special class concrete finish to exposed concrete walls per Architects Spec E00/100	8	no			
L	Area of opening 1.00 - 5.00m2	4	no			
M	EO for special class concrete finish to exposed concrete walls per Architects Spec E00/100	4	no			
N	Area of opening 5.00 - 10.00m2	8	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	EO for special class concrete finish to exposed concrete walls per Architects Spec E00/100	8	no			
B	Area of opening 10.00 - 15.00m2	1	no			
C	EO for special class concrete finish to exposed concrete walls per Architects Spec E00/100	1	no			
	Sundries					
D	Allow for casting in 100mm diameter sleeves through 250 thick concrete walls for incoming services	16	no			
E	Allow for casting in 150mm diameter sleeves through 250mm thick concrete walls for incoming services	16	no			
	Waterbars					
	Adcor 550MI or equivalent per Engineers Specification					
F	Horizontal	158	m			
G	EO curved	22	m			
H	Vertical	164	m			
J	Angles	52	no			
	Concrete Work					
	Precast Concrete					
	Precast Prestressed concrete; proprietary lintels; to be used in conjunction with 'Notes on Preparation and Load span tables'; standard stock pattern units; B.S. 1239; standard bar reinforcement as required; building in as work proceeds; bedding in gauged mortar (1:1:6); used strictly in accordance with manufacturers instructions, and per Engineer's Details					
	Lintels					
K	100 x 65mm	5	m			
L	215 x 65mm	42	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Brickwork and Blockwork					
	Brickwork / Blockwork					
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification					
	Walls					
A	100mm thick	23	m2			
B	215mm thick	745	m2			
	Extra over for special bricks/blocks					
C	Reinforced concrete filled 215mm x 215mm U-block; horizontal; filled with and including Grade C30/10 concrete with and including (2no) T16 reinforcement bar, minimum 600mm laps; with and including single course of 215mm solid blockwork layed on top; as Engineers Drawings (2 rows of Band beams measured)	266	m			
	TYPE BLK.201 THERMAL BLOCKWORK; Autoclaved aerated concrete blocks to BS EN 771-4; compressive strength 13N/mm2 category I; Thermal conductivity (max) 0.19W/mK; 440 x 100 x 215mm nominal size; Fire rating to BS EN 13501-1; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bond with neat flush pointing as the work proceeds; all as per Architects Specification and Engineers Specification					
	215mm thick					
D	>300mm wide	20	m2			
E	Two courses of 215mm thermal blocks built into standard blockwork	20	m			
	Labours;					
F	On Blockwork Generally	1	Item			
	Bonding to Other Work					
G	215mm blockwork tied to reinforced concrete columns using 'Dovetail Slots' or similar at 225 vertical c/c and 450 horizontal as the works proceed.	157	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Bedjoint Reinforcement					
A	Provide 3 courses of GBF 35 W60 SC brickforce (or equivalent) reinforcing to horizontal bed joints directly above ope. Extend minimum 750 beyond ope size, all per Engineer's Specification	798	m			
	Fire Stopping System;					
B	Allow for Design, supply and installation of Fire Stopping System all as before in;		Item			
	Approved proprietary linear firestop; include for sealing both sides with approved proprietary ablative coating in fire stopping at head of walls and all as per Architects Drawings and Specification					
	Provide and install complete approved compressible moisture resistant stone wool filler material between top of blockwork and underside of concrete slab having 60 minute fire rating to EN; 1987; include for pointing both sides in matching intumescent mastic per Architects Specification in;					
C	215mm wide	266	m			
	Cable Containment System					
D	The Cable Containment System; "Kaiser" or equal and approved concrete casting cable containment system set into concrete; comprising 25mm diameter heavy duty conduit, 32mm diameter heavy duty conduit, 40mm diameter heavy duty conduit; socket boxes, fixture housings; wall to ceiling transitions is measured under Electrical Installation and is to be priced in that element. It is required in all the external walkways at each floor level, stairs & lift shaft and if there are any further cost implicatons associated with the concrete, reinforcement and formwork accommodating same the full cost implication should be included here.		Item			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
E	Testing	1	Item			
F	Surveys	1	Item			
G	Samples	1	Item			
H	Warranties	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
A	Testing	1	Item			
B	Surveys	1	Item			
C	Samples	1	Item			
D	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/3/1					
Page No. West/3/2					
Page No. West/3/3					
Page No. West/3/4					
Page No. West/3/5					
Page No. West/3/6					
EL (22) INTERNAL WALLS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (23) FLOORS, GALLERIES					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	CONCRETE WORK					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	IN - SITU CONCRETE					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	> 150mm thick					
G	reinforced	837	m3			
	Upstands and the like					
H	Cross sectional area > 0.10m2	7	m3			

To Collection €

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Sundries					
	Designed joints					
	Expansion joints; formed joints including cast-in proprietary shear connectors; joint width 35mm c/w filler material; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete clause 2.5 & 3.1					
	Slabs					
A	width 150 - 300mm	390	m			
	Surface finishes					
	Powerfloating					
B	horizontal	2667	m2			
C	EO to falls & cross falls	588	m2			
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to BS 4449; Class B high yield (fy = 500N/mm2) capacity; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Works Requirements					
	Bar:Straight or bent					
D	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	126.61	tonne			
	CONCRETE WORK: Shear Stud Rails					
	FF Slab Stud Rails Ref.					
E	H10-280-3-650; 650mm long	44	No			
F	H12-280-4-850; 850mm long	40	No			
G	H10-280-4-450; 450mm long	30	No			
H	H12-280-4-450; 450mm long	28	No			
J	H12-280-5-1050; 1050mm long	16	No			
K	H12-280-3-650; 650mm long	4	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	SF Slab Stud Rails Ref.					
A	H10-280-3-650; 650mm long	44	No			
B	H12-280-4-850; 850mm long	40	No			
C	H10-280-4-450; 450mm long	30	No			
D	H12-280-4-450; 450mm long	28	No			
E	H12-280-5-1050; 1050mm long	16	No			
F	H12-280-3-650; 650mm long	4	No			
	TF Slab Stud Rails Ref.					
G	H10-280-3-650; 650mm long	44	No			
H	H12-280-4-850; 850mm long	40	No			
J	H10-280-4-450; 450mm long	30	No			
K	H12-280-4-450; 450mm long	28	No			
L	H12-280-5-1050; 1050mm long	16	No			
M	H12-280-3-650; 650mm long	4	No			
	CONCRETE WORK: Formwork - [Type A Finish]					
	Plain Formwork - Type A Finish; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete					
	Edges of suspended slabs					
N	height <250	192	m			
P	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	192	m			
Q	Height 250 - 500mm	552	m			
R	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	236	m			
	Sides of upstands and steps in top surfaces					
S	height <250	323	m			
T	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	323	m			
U	height 250 - 500mm	30	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	30	m			
	Steps in soffits					
	Height < or = 250mm					
B	generally	45	m			
	Soffits of suspended slabs					
	Soffit height < or = 4.00m					
C	generally	2667	m2			
D	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	588	m2			
	Edges of openings					
	Slabs					
E	area of opening < or = 1.00m2	90	nr			
F	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	54	nr			
G	area of opening 1.00 - 5.00m2	6	nr			
H	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	3	m			
	Beams					
	Attached; rectangular					
J	generally	146	m2			
K	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	146	m2			
	Form recess in slab					
L	1200 x 1300mm on plan; <250mm high	3	no			
M	2500 x 1300mm on plan; <250mm high	3	no			
	THERMAL CONNECTIONS					
N	Proprietary concrete to concrete balcony slab thermal connection designed by supplier for v = 25kn/m	244	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	FLOWFORGE GRATINGS AND FRAME					
	Structural steelwork; all steelwork to be Grade S275 unless noted otherwise and shall comply with the requirements of EN 10025:1993; all in strict accordance with the Engineers specification and and All as per Engineers drawing no. H695-OSCS-SK260331					
	Protective coatings; surface treatment off site; before fabrication shot blast cleaning to SA2.5 Swedish Standard SIS. 05.5900; apply one coat of "HGW" or equal approved two pack epoxy zinc rich primer A5214 to a DFT of 25 microns; apply one coat "HGW" or equal approved two pack epoxy high build zinc phosphate primer A5080 to a DFT of 75 microns; spot prime after erection as required					
	Composite Item; 5mm hot dipped galvanised flowforge grating (mesh size 38/125) set into steelwork frame comprising 152 x 89 x 16 UB steel beams; 100 x 50 x 8 RSA					
A	overall size 2300mm x 500mm	10	nr			
B	overall size 500mm x 500mm ;	10	nr			
	Cable Containment System					
C	The Cable Containment System; "Kaiser" or equal and approved concrete casting cable containment system set into concrete; comprising 25mm diameter heavy duty conduit, 32mm diameter heavy duty conduit, 40mm diameter heavy duty conduit; socket boxes, fixture housings; wall to ceiling transitions is measured under Electrical Installation and is to be priced in that element. It is required in all the external walkways at each floor level, stairs & lift shaft and if there are any further cost implicatons associated with the concrete, reinforcement and formwork accommodating same the full cost implication should be included here.		Item			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
D	Testing	1	Item			
E	Surveys	1	Item			
F	Samples	1	Item			
G	Warranties	1	Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
A	Testing	1	Item			
B	Surveys	1	Item			
C	Samples	1	Item			
D	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/4/1					
Page No. West/4/2					
Page No. West/4/3					
Page No. West/4/4					
Page No. West/4/5					
Page No. West/4/6					
EL (23) FLOORS, GALLERIES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (27) (28) ROOF & FRAME					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	CONCRETE WORK					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
F	generally	1	Item			
	IN - SITU CONCRETE					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Slabs					
	> 150mm thick					
G	reinforced	296	m3			
	Columns					
	cross sectional area < or = 0.10m2					
H	reinforced	21	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	cross sectional area > 0.10m2					
A	reinforced	44	m3			
	Upstands and the like					
B	cross sectional area < or = 0.10m2	3	m3			
C	Cross sectional area > 0.10m2	36	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C30/37; maximum aggregate size 20mm; Min cement content 320kg/m3; exposure classes XC3; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Screed					
	< or = 150mm thick					
D	generally	69	m3			
	CONCRETE WORK: Sundries					
	Designed joints					
	Expansion joints; formed joints including cast-in proprietary shear connectors; joint width 35mm c/w filler material; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete clause 2.5 & 3.1					
	Slabs					
E	width 150 - 300mm	130	m			
	Surface finishes					
	Powerfloating					
F	horizontal	1839	m2			
G	EO to falls & cross falls	920	m2			

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to BS 4449; Class B high yield (fy = 500N/mm2) capacity; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Works Requirements					
	Bar:Straight or bent					
A	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	59.74	tonne			
	CONCRETE WORK: Shear Stud Rails					
	Roof Slab Stud Rails Ref.					
B	H10-280-2-450; 450mm long	32	No			
C	H10-280-3-650; 650mm long	16	No			
D	H12-280-6-1250; 1250mm long	8	No			
E	H10-280-4-850; 850mm long	8	No			
F	H12-280-3-650; 650mm long	2	No			
G	H12-280-2-450; 450mm long	2	No			
H	H12-280-4-850; 850mm long	2	No			
	CONCRETE WORK: Formwork - [Type A Finish]					
	Plain Formwork - Type A Finish; all in accordance with the Works Requirements and Structural Engineers particular specification for concrete					
	Edges of suspended slabs and landings					
J	height <250	59	m			
K	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	59	m			
L	Height 250 - 500mm	221	m			
M	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	68	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Sides of upstands and steps in top surfaces					
A	height <250	108	m			
B	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	108	m			
C	height 250 - 500mm	30	m			
D	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	30	m			
E	height >500	261	m2			
F	EO curved	14	m2			
	Soffits of suspended slabs					
	Soffit height < or = 4.00m					
G	generally	920	m2			
H	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	196	m2			
	Soffit height 12.00 - 14.00m					
J	generally	7	m2			
	Edges of openings					
	Slabs					
K	area of opening < or = 1.00m2	30	nr			
L	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	18	nr			
M	area of opening 1.00 - 5.00m2	2	nr			
N	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	2	nr			
P	area of opening 1.00 - 5.00m2 circular opening (roof ventilators)	2	nr			
Q	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	2	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Beams					
	Attached; rectangular					
A	generally	49	m2			
B	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	49	m2			
	Columns					
	Isolated; rectangular					
C	generally	840	m2			
D	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	273	m2			
	Kickers					
	Columns; rectangular					
E	generally	164	No			
	Opes					
	Forming or cutting opes in roof slab composed of 250mm thick reinforced concrete slab with average 75mm thick concrete screed on top inclusive of trimming to opes as per Engineers requirements					
F	150mm diameter	10	No			
G	200mm diameter	10	No			
H	100 x 100	2	No			
J	203 x 203	15	No			
K	250 x 150	15	No			
	THERMAL CONNECTIONS					
L	Proprietary concrete to concrete balcony slab thermal connection designed by supplier for v = 25kn/m	82	m			
	Stainless Steel Windposts					
	Flat Bar (referenced W1)					
M	120 x 8mm; fixed to concrete structure; spanning floor to floor 2800mm long; inclusive of fixings; as per Engineers Specification	48	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Angle (referenced W2)					
A	140 x 70 x 4mm; fixed to concrete structure; spanning floor to floor 2800mm long; inclusive of fixings; as per Engineers Specification	56	No			
	Cable Containment System					
B	The Cable Containment System; "Kaiser" or equal and approved concrete casting cable containment system set into concrete; comprising 25mm diameter heavy duty conduit, 32mm diameter heavy duty conduit, 40mm diameter heavy duty conduit; socket boxes, fixture housings; wall to ceiling transitions is measured under Electrical Installation and is to be priced in that element. It is required in all the external walkways at each floor level, stairs & lift shaft and if there are any further cost implicatons associated with the concrete, reinforcement and formwork accommodating same the full cost implication should be included here.		Item			
	Testing , Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements					
C	Testing	1	Item			
D	Surveys	1	Item			
E	Samples	1	Item			
F	Warranties	1	Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements					
G	Testing	1	Item			
H	Surveys	1	Item			
J	Samples	1	Item			
K	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/5/1					
Page No. West/5/2					
Page No. West/5/3					
Page No. West/5/4					
Page No. West/5/5					
Page No. West/5/6					
EL (27) (28) ROOF & FRAME **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (24) STAIRS, RAMPS					
	INFORMATION					
A	This element of the work has been measured from Structural Engineers Drawings, Engineers Specification together with Architects Drawings & Architects Specification		Note			
B	The Architects and Engineer's drawings and Specifications are all complementry to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Document are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	CONCRETE WORK: In-Situ Concrete					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Structural Engineers specification					
F	generally		item			
	Staircases					
	In-situ concrete; designed concrete mix to IS EN 206-1, comprising 50% CEM II-A and 50% GGBS to IS EN 15167-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC3; reinforced and vibrated; all in accordance with the Engineers specification for concrete					
	Including associated strings and landings					
G	reinforced	17	m3			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	CONCRETE WORK: Sundries					
	Designed joints					
	M20 x 300mm long mild steel anchor pin to bottom step of stairs; hole to be grouted flush					
	Anchor pins					
A	generally	2	nr			
	Surface finishes					
	Trowelling					
B	horizontally	81	m2			
	CONCRETE WORK: Reinforcement					
	Bar					
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to BS 4449; Class B high yield (fy = 500N/mm2) capacity; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Works Requirements					
	Bar:Straight or bent					
C	< 12mm diameter / 12 - 25mm diameter / > 25mm diameter / Links< or = 12mm diameter	4.25	tonne			
	CONCRETE WORK: Formwork - [Visual/Exposed Finish]					
	High quality fine smooth formed finish to visual/exposed concrete; all in accordance with the Structural Engineers specification for formwork					
	Edges of suspended slabs and landings					
	Height < or = 250mm					
D	generally	62	m			
E	EO curved	21	m			
F	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	62	m			
G	EO curved	21	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Stairflights [6 nr. flights]					
	1250mm wide; 305mm treads, 188mm undercut risers, 200mm waist					
A	junction with wall one side	20	m			
B	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	20	m			
C	isolated		m			
	Soffits of landings					
	Soffit height < or = 4.00m					
D	slab thickness < or = 350mm	39	m2			
E	EO for special class concrete finish to exposed concrete per Architects Spec E00/100	39	m2			
	Cable Containment System					
F	The Cable Containment System; "Kaiser" or equal and approved concrete casting cable containment system set into concrete; comprising 25mm diameter heavy duty conduit, 32mm diameter heavy duty conduit, 40mm diameter heavy duty conduit; socket boxes, fixture housings; wall to ceiling transitions is measured under Electrical Installation and is to be priced in that element. It is required in all the external walkways at each floor level, stairs & lift shaft and if there are any further cost implicatons associated with the concrete, reinforcement and formwork accommodating same the full cost implication should be included here.		Item			
	<u>Testing , Surveys, Samples & Warranties</u>					
	<u>Include for all testing, surveys, samples & warranty requirements as set out in the Architects Works Requirements</u>					
G	Testing	1	Item			
H	Surveys	1	Item			
J	Samples	1	Item			
K	Warranties	1	Item			
	<u>Include for all testing, surveys, samples & warranty requirements as set out in the Engineers Works Requirements</u>					
L	Testing	1	Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Surveys	1	Item			
B	Samples	1	Item			
C	Warranties	1	Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/6/1					
Page No. West/6/2					
Page No. West/6/3					
Page No. West/6/4					
EL (24) STAIRS, RAMPS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (31) EXTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architect's drawing nrs. 136-139, 155, 156, 314-329, 350-354, 356, 358, 600-606, Architects External WIndow & Door Schedule, Architects Specification		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	For detailed description of workmanship and materials refer to specification.		Note			
D	Supply and fix in position the following including all necessary frames, bolts and anchorages.		Note			
	WOODWORK					
	Woodwork					
	Boarding and second fixing					
	Softwood window board; 1. Description: 35mm softwood free from decay with no knots wider than half the width of the section. 2. Quality of wood and fixing: To BS 1186-3. 2.1. Species: Contractor's choice 2.2. Class: 1 3. Moisture content at time of fixing: 10% 4. Fabrication: As Section Z10 5. Reaction to fire rating: To IS EN 13501-1, Class B or better 6. Finish as delivered: Prepared and primed, as section M60 7. Fixing: secret screws 300mm centres fixed to wet plaster on Blockwork. 8. Joint treatment: butt jointed. Inclusive of softwood timber grounds, <150mm girth vapour membrane to H31/261. All per Architect's drawings and Specification P20/110B					
	Second fixings; window boards					
E	Circa 120mm wide x 35mm thick window board	275	m			
	Sundries					
F	Mastic sealant joint externally around window frames; 1. Sealant 1.1. Manufacturer: Submit proposals 1.1.1. Product reference: Submit proposals 1.2. Colour: Submit proposals 1.3. Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile. All per Architects drawings and Specification L10/810A	1360	m			
G	Ditto as last, internally	1360	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Expanding polyurethene foam to fill gaps between cavity closer and frame; MANUFACTURER: Submit proposals.; PRODUCT REFERENCE: Submit proposals.; THICKNESS: To fill gaps as noted on relevant details - typically 10mm-25mm. SURVEY: Carry out before installation.; IDENTIFIED DEFECTS: Submit proposals for rectification.; INSTALLATION: In accordance with Agrement Certificate. All per Architects drawings and Specification	1360	m			
	Air / Vapour membrane; laps to Architects Specification, sealed with contact adhesive bedding in cement mortar; as per Architects specification section H31/261					
	Width not exceeding 225mm					
B	To head, jamb & base of openings	1360	m			
				To Collection €		

Description	Qty	Unit	Rate	€	c
DOUBLE GLAZED WINDOWS/SCREENS **Composite windows** 1. Description: Highly insulated thermally broken aluminium sash and timber frame. Aluminium sash profiles will be fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. The sealed glass unit must be internally dry-glazed with EPDM gaskets and the glass rebate must be formed of aluminium. 2. Manufacturer: Novus windows OR Equivalent 2.1. Product Reference: Nation Ideal Combi OR Equivalent 3. Type: For use generally as: - Apartment balcony doors with fixed sidelights - Side hung Tilt / Turn windows Fixed windows Refer to architectural drawings for types and configurations of windows / doors. 4. Standard: Non-fire-rated and/ or non-smoke-rated windows to BS EN 14351-1 Fire-rated and/ or smoke-rated opening windows to BS EN 14351-1 and BS EN 16034 5. Materials 5.1. Exterior frame/ sash cladding: Aluminium/ Timber Outward & Inward Opening Sashes. The window sash will have a 54mm external sash profiles which are fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. 5.1.1. Finish: The external aluminium sash must be polyester powder-coated in compliance with BS 6496, BS 6497, GSB and DIN 50939, to a selected metallic RAL colour [TBC] to gloss level 30% or gloss level 77% and a primary coating thickness of between 60-120 um 5.2. Interior frame/ sash section: The system must have an internal structural frame of laminated softwood, sourced from a renewable and managed supply chain. Quality optimised finger jointed timber with 149mm (or 175mm) overall depth of frame. The frame is completed with PUR core with a lambda value of 0.074 W/mK and external PPC Aluminium profile 5.2.1. Timber standard:: To BS EN 942. Softwood as table NA1 Appearance class: J30 Moisture content on delivery: 12 - 19% 5.2.2. Assembly adhesive:: Thermosetting resin to BSEN 12765 class C4 5.2.3. Joinery workmanship:: As section Z10. 5.2.4. Preservative treatment:: Organic solvent as section Z12 and WPA Commodity Specification C5; service life 50 years 5.2.5. Finish: The internal timber frame to be preservative treated with fungicides and have a further two coat factory pre-finish with an environmentally friendly (solvent free) 100% Acryl emulsion/water-based surface treatment. The coating is to have a dry paint thickness of between 60-100 um and a colourless finish to gloss level 25 (silk matt). 5.2.6. Fixing:: Galvanised straps at 600mm centres, or as manufacturers recommendations 5.3. Spandrel panel: The facade panel is an insulated aluminium panel that is provided as part of the overall system and fitted within frame to match the windows. It must be fire rated to achieve 60 minutes fire resistance for load bearing capacity, insulation and integrity					

To Collection €

Description	Qty	Unit	Rate	€	c
6. Performance: 6.1. Air permeability:: Class 4 at 600 Pa in accordance with EN 12207: 2016and EN1026:2016 6.2. Water tightness: Class E1500 in accordance with EN 12208: 2000 6.3. Wind load: Class C4 in accordance with EN12210: 2000. no deformation or damage must be recorded at an applied wind pressure of 1800PA using test method EN 12211 (BS 6375 part 1). 6.4. Exposure category: 1600 in accordance with BS6375: Part 1: 2009 and the window system must be tested to meet the requirements of BS 6375 part 2. 6.5. Security: PAS 24:2012: Pass 7. Thermal performance (U-value maximum): The thermal transmittance (U value) for the window system and glazing (including spandrel panels) shall not exceed: Overall Windows U Value (Uw) = 1.1 W/M2 K 8. Operation and strength characteristics: To BS 6375-2. 9. Acoustic performance rating: Manufacturer's standard 10. Environmental performance: Manufacturing facilities will operate an ISO 14001 environmental policy as will key suppliers. All timber will be fully FSC certified, and 85% of aluminium will be procured from hydro-electric sources with a recycled content of at least 50%. 11. Glazing details: Low E Double Glazed Unit in accordance with EN 1279 Light Transmittance (Lt): 0.74 Warm Edge Spacer Bar: Black Swiss V Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors. The use of site-applied wet or dry sealant placed in the outermost plane of the windows/screens in order to seal between units and/or other adjacent materials will be unacceptable 11.1. TGU U Value (Ug): 0.53 W/M2K 11.2. g-value: : 0.53 11.3. Light Transmittance (Lt): 0.74 11.4. Warm Edge Spacer Bar: Black Swiss V 11.5. Safety glass: Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	12. Ironmongery/ accessories: To include: PPC Aluminium Tray Cill Pressings Concealed Aluminium Click Vents Integrated Espagnolette Handles to operate a fully concealed multi-point locking mechanism with night vent position. Concealed Dual Function Restrictors to all openings above GFL Friction stays, sliding tracks, hinges and handles must be sourced from one single manufacturer and/or must have been developed and engineered specifically with the proposed window system in mind. Opening handles are to be single handles incorporating a multipoint locking mechanism fully concealed within the sash with only one handle permitted per window/ door. Alternative handle specification will be to provide 2 SAA (or equivalent) square catch handles per window. Enhanced ironmongery to be upgraded from general specification above due to increased security requirement: Refer to Section P21 505 and ironmongery schedule for further details. 13. Background ventilation:: Concealed aluminium click vents to provide equivalent area as required for compliance with TGD Part F 2019. A schedule of ventilation areas achieved by each window unit is to be provided to the Architect prior to placement of order. 14. Warranty & Design Life:: The window system will have an expected design life of at least 60 years and a schedule of maintenance will be provided. The complete window inclusive of framing, gaskets, ironmongery and glazing will be covered by a 10 year warranty from date of manufacture. 15. Verification: 15.1. Submittals: Manufacture: Window production facilities will operate an ISO 9001 quality control system. 15.2. Timing: Before placement of orders. . All in accordance with Architects Specification L10/410					
A	Type WA - Window size to suit structural ope 2020mm wide x 1285mm high; 1Nr opening section as per Architects Drawing 600	48	No			
B	Type WC - Window size to suit structural ope 1130mm wide x 2260mm high; 1Nr opening section as per Architects Drawing 600	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Curtain Walling					
	Curtain Walling 1. Description: Aluminium curtain walling system with externally flush silicone jointing between adjacent toggle fixed glazing units and adjoining perimeter cladding. Curtain wall mullion profiles shall be internally reinforced where necessary and dead load supported and laterally restrained at floor levels 2. Location:: DVR - Ground floor windows to East Block - EBWG.06 and EBWG05 West Block - Type WE window (to stair block on all levels) 3. Supporting structure: Steel superstructure for vertical elements and head detail. 4. Curtain walling system 4.1. Type: Structurally glazed system Schueco FWS50 SG SI - or equivalent 5. Internal framing member 5.1. Material: Aluminium 5.2. Finish: Anodizing 5.2.1. Colour/ texture: Natural - Refer to Section Z33 6. External cover cap 6.1. Material: Aluminium 6.2. Finish: Anodizing 6.2.1. Colour/ texture: Natural - Refer to Section Z33 7. Glazing: 7.1. Performance requirements:: High performance solar control coated (typically high performance solar control coating to surface #4 or #6), argon filled, toggle fixed, insulating triple glazed vision units with PVB (acoustic if required) laminated 1(B)1 (in accordance with EN12600) safety glass to external and internal leaf's with black warm edge spacer bar technology (Swisspacer Ultimate or equivalent). Medium-iron content substrates to be used throughout. 7.2. Glazing calculations: Calculations to be based on 2-sided held glass 7.3. Average glazing u-value including frame factor: see clause 370 7.4. Glazing light transmittance (G-value): 0.40 maximum 7.5. Glazing Security performance (EN356): P4A 7.6. Other requirements: Silicone seal spacer required 8. Accessories: Any associated accessories required to complete the system design including, but not limited to: - Perimeter flashings - Glass manifestation. All in accordance with Architects Specification H11/110A					
A	Overall size circa 1810 x 11700mm high; inclusive of 4Nr glazing units with 4nr opening sections as per Architects Drawings 321 & 600	2	No			
B	Extra over for insulated aluminium spandrel panels per Architects Specification L10/410/5.3	10	m2			
C	100 x 100 x 10 galvanised steel angle fixed to concrete floor slab with M16 chemical anchor bolts at 400mm max centres and inclusive of thermal packer as per Architects Drawing 321	13	m			
D	Plywood; 100mm high fixed to edge of slab as per Architects Drawing 321 detail 08	11	m			
E	2 layers plywood; 70mm wide fixed to steel angle (elsewhere measured) as per Architects Drawing 321 detail 08	11	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Sundry Details					
A	Thermal compact foam batten; inclusive of 2nr fixings at 400mm c/c; per Architects Drawing 321 detail 08 and Architects Specification L10/785; 140mm high x 80mm thick	309	m			
B	Mineral wool insulation; per Architects Drawing 321 detail 08 and Architects Specification H31/270; 70mm thick	7	m2			
C	Ditto last; 130mm thick	4	m2			
				To Collection €		

Description	Qty	Unit	Rate	€	c
Composite Doorsets Balcony Doors 1. Description: Highly insulated thermally broken aluminium sash and timber frame. Aluminium sash profiles will be fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. The sealed glass unit must be internally dry-glazed with EPDM gaskets and the glass rebate must be formed of aluminium. 2. Manufacturer:: Novus windows OR Equivalent 2.1. Product reference:: Nation Ideal Combi OR Equivalent 3. Cross references:: Same manufacturer,product line and general specification should be used as proposed under clause L10/410 4. Type: For use generally as: Apartment balcony doors with fixed sidelights Refer to architectural drawings for types and configurations of doors. 5. Standard: Non-fire-rated and/ or non-smoke-rated windows to BS EN 14351-1 Fire-rated and/ or smoke-rated opening windows to BS EN 14351-1 and BS EN 16034 6. Materials 6.1. Exterior frame/ sash cladding: Aluminium/ Timber Outward & Inward Opening Sashes. The window sash will have a 54mm external sash profiles which are fully ventilated and drained through concealed drainage channels and incorporate an aluminium glazing rebate. 6.1.1. Finish: The external aluminium sash must be polyester powder-coated in compliance with BS 6496, BS 6497, GSB and DIN 50939, to a selected metallic RAL colour [TBC] to gloss level 30% or gloss level 77% and a primary coating thickness of between 60-120 um 6.2. Interior frame/ sash section: The system must have an internal structural frame of laminated softwood, sourced from a renewable and managed supply chain. Quality optimised finger jointed timber with 149mm (or 175mm) overall depth of frame. The frame is completed with PUR core with a lambda value of 0.074 W/mK and external PPC Aluminium profile 6.2.1. Timber standard:: To BS EN 942. Softwood as table NA1 Appearance class: J30 Moisture content on delivery: 12 - 19% 6.2.2. Assembly adhesive:: Thermosetting resin to BSEN 12765 class C4 6.2.3. Joinery workmanship:: As section Z10. 6.2.4. Preservative treatment:: Organic solvent as section Z12 and WPA Commodity Specification C5; service life 50 years 6.2.5. Finish: The internal timber frame to be preservative treated with fungicides and have a further two coat factory pre-finish with an environmentally friendly (solvent free) 100% Acryl emulsion/water-based surface treatment. The coating is to have a dry paint thickness of between 60-100 um and a colourless finish to gloss level 25 (silk matt). 6.2.6. Fixing:: Galvanised straps at 600mm centres, or as manufacturers recommendations 6.3. Spandrel panel: The facade panel is a frameless sash mounted using a bracket system onto the underlying structure. The sash can be glazed with a variety of opaque panels for example: enamelled glass, insulated aluminium panels or a variety of other boarding options.					
			To Collection €		

Description	Qty	Unit	Rate	€	c
7. Performance: 7.1. Air permeability:: Class 4 at 600 Pa in accordance with EN 12207: 2016and EN1026:2016 7.2. Water tightness: Class E1500 in accordance with EN 12208: 2000 7.3. Wind load: Class C4 in accordance with EN12210: 2000. no deformation or damage must be recorded at an applied wind pressure of 1800PA using test method EN 12211 (BS 6375 part 1). 7.4. Exposure category: 1600 in accordance with BS6375: Part 1: 2009 and the window system must be tested to meet the requirements of BS 6375 part 2. 7.5. Security: PAS 24:2012: Pass 8. Thermal performance (U-value maximum): The thermal transmittance (U value) for the window system and glazing shall not exceed: Overall Windows/Doors U Value (Uw) = 1.1 W/M2 K 9. Operation and strength characteristics: To BS 6375-2. 10. Acoustic performance rating: Manufacturer's standard 11. Environmental performance: Manufacturing facilities will operate an ISO 14001 environmental policy as will key suppliers. All timber will be fully FSC certified, and 85% of aluminium will be procured from hydro-electric sources with a recycled content of at least 50%. 12. Glazing details: Low E Double Glazed Unit in accordance with EN 1279 Light Transmittance (Lt): 0.74 Warm Edge Spacer Bar: Black Swiss V Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors. The use of site-applied wet or dry sealant placed in the outermost plane of the windows/screens in order to seal between units and/or other adjacent materials will be unacceptable 12.1. TGU U Value (Ug): 0.53 W/M2K 12.2. g-value: : 0.53 12.3. Light Transmittance (Lt): 0.74 12.4. Warm Edge Spacer Bar: Black Swiss V 12.5. Safety glass: Safety glass to BS 6262 and in accordance with TGD's Safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors. 13. Ironmongery/ accessories: To include: PPC Aluminium Tray Cill Pressings Concealed Aluminium Click Vents Integrated Espagnolette Handles to operate a fully concealed multi-point locking mechanism with night vent position. Concealed Dual Function Restrictors to all openings above GFL Friction stays, sliding tracks, hinges and handles must be sourced from one single manufacturer and/or must have been developed and engineered specifically with the proposed window system in mind. Opening handles are to be single handles incorporating a multipoint locking mechanism fully concealed within the sash with only one handle permitted per window/ door. Alternative handle specification will be to provide 2 SAA (or equivalent) square catch handles per window. Enhanced ironmongery to be upgraded from general specification above due to increased security requirement: Refer to Section P21 505 and ironmongery schedule for further details. Provide low profile threshold at balcony doors which must be TGD M compliant and compatible with the overall system					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	14. Background ventilation:: Concealed aluminium click vents to provide equivalent area as required for compliance with TGD Part F 2019. A schedule of ventilation areas achieved by each window unit is to be provided to the Architect prior to placement of order. 15. Warranty & Design Life:: The window system will have an expected design life of at least 60 years and a schedule of maintenance will be provided. The complete window inclusive of framing, gaskets, ironmongery and glazing will be covered by a 10 year warranty from date of manufacture. 16. Verification: 16.1. Submittals: Manufacture: Window production facilities will operate an ISO 9001 quality control system. 16.2. Timing: Before placement of orders. All in accordance with Architects Specification L20A/450					
A	Type WD - Window & door size to suit structural ope 1585mm wide x 2260mm high; inclusive of 1Nr door as per Architects Drawing 600	88	No			
	Matching Cills					
	Matching Powder Coated Aluminium cills to all Windows, include for all necessary, EPDM, DPC, Insulation, seals, plywood to falls, grounds, etc. complete, as detailed per the following:					
B	Per Architects Drawing 320 Detail 02 (A); girth 300-450mm	96	m			
C	Extra over for ends	96	No			
D	Per Architects Drawing 320 Detail 02 (B / C); girth 300-450mm	33	m			
E	Extra over for ends	40	No			
F	Per Architects Drawing 320 Detail 04 (D); girth 300-450mm	140	m			
G	Extra over for ends	176	No			
	Sundry Details					
H	100 x 100 x 10 galvanised steel angle fixed to concrete floor slab with M16 chemical anchor bolts at 400mm max centres and inclusive of thermal packer as per Architects Drawing 320 Detail 04	268	m			
				To Collection €		

Description	Qty	Unit	Rate	€	c
Wood doorsets - Apartment Entrance Doors 1. Manufacturer: Velfac Windows OR Equivalent 1.1. New Item: Ribo Aluclad Fire Rated door OR Equivalent 2. Standard: To EN 14351-1:2006 + A2:2016. 3. Configuration: Single leaf, Inward opening 4. Doorset size: Refer to architectural drawings 5. Performance 5.1. Fire resistance:: Fire resisting doorset achieving 30minutes fire resistance (integrity) in accordance with EN 1634:2014 5.2. Smoke leakage:: Sa To EN 13501 5.3. Strength and durability: 5.4. Thermal: Flush doors: 0.60 W/m2K. 5.5. Intruder resistance 5.5.1. Minimum requirement: To PAS 24 and Secured by Design on request. 5.5.2. Conformity: Certification by accredited third party certification body. 6. Frame 6.1. Materials: Aluclad Painted timber finish to door panel HDF plate Plaster plate (gips) Insulation Plaster plate (gips) Wood frame HDF plate 6.2. Threshold: 45 mm. 7. Door leaf 7.1. Thickness: 80 mm. 7.2. Panel details: Flush 7.3. Finish: Powder coated to BS EN 6496. 7.4. Colour 7.4.1. External: TBC 7.4.2. Internal: Water-based diffusion open timber surface treatment. 7.5. Door accessories: 8. Hardware: Lock-box with oval cylinder, three adjustable grey hinges, 180degree hinges. 9. Ironmongery: External door handle. Espagnolette locking system with three closing points. 10. UK exposure category: To BS 6375-1, 1600 Pa. 11. Air permeability: To BS EN 1026, 600 Pa (positive and negative pressure). 12. Watertightness: Tested to BS EN 1027. Inward opening, single leaf doors: 600 Pa. Outward opening single leaf and all double leaf doors: 300 Pa. 13. Resistance to wind load: To BS EN 12211, 1600 Pa. Tested to 1600 Pa in accordance with BS EN 12211 (1600 Pa wind serviceability/ 2400 Pa wind safety).					

To Collection €

	Description	Qty	Unit	Rate	€	c
	14. Third-party certification: Q-Mark product certification, BM TRADA certified, Danish window verification and indoor climate label. 15. Performance 15.1. Thermal performance (U-value maximum): 1.6 W/m2K. 15.2. Watertightness: Up to 600 Pa (class 3) 15.3. Air permeability: Up to 300 Pa (class 7A) 15.4. Resistance to wind load: Up to 800 Pa (class C2) 16. Frame 16.1. Material: Powdercoated or Anodized- to match finish as clause L10/410 (powdercoated West Block, Anodized DVR/East Block) 16.2. Threshold: Flat aluminium with brush seal 16.3. Finish as delivered: Powdercoated or anodized - to match finish as clause L10/410 (powdercoated West Block, Anodized DVR/East Block) 17. Perimeter seals: Fire and smoke seal + EPDM weatherseal. 18. Fixing: As per manufacturer's guidelines 19. Warranty: Ten year 20. Verification 20.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's certification and warranties for a period of 15 years. Manufacturer's literature and/ or certification. Declaration of Performance or a third-party certification in respect of fire performance by a EU-accredited third-party testing organizatio Evidence of CE marking 20.2. Timing: Before placement of orders. Inclusive of all fixings, framing, sealing, ironmongery (inclusive of door closer), complete, all in accordance with Architects Specification L20A/430					
A	Door Type DA; to suit structural ope 1120 x 2400mm high	32	No			

Description	Qty	Unit	Rate	€	c
480 Metal Doorsets Stairwell egress 1. Description: Highlt insulated aluminium doorset for stairwell entrance / external egress, including fire rating where applicable. 2. Manufacturer: Schueco OR equivalent 2.1. Product reference: ADS 70 HI - OR equivalent 3. Types: Refer to architectural drawings 3.1. West Block - Stair 1 (Type WE): Outward swinging glazed door with sidelight 3.1.1. Min. clear opening part L: 1000 mm 3.1.2. Fire resistance: EI30Sa in accordance with IS EN 13501-2 3.2. DVR - Stair 1 (Type DF): Outward swinging glazed door 3.2.1. Min. clear opening part L: 1300 mm 3.2.2. Fire resistance: NFR 3.3. DVR - Stair 2 (Type DJ): Outward swinging glazed door 3.3.1. Min. clear opening part L: 1300 mm 3.3.2. Fire resistance: NFR 3.4. East Block - Stair 3 (Type DD): Outward swinging glazed door 3.4.1. Min. clear opening part L: 1000 mm 3.4.2. Fire resistance: NFR 3.5. DVR - Laundry (Type DH): Outward swinging solid aluminium door 3.5.1. Min clear opening Part L: 800mm 3.5.2. Fire Resistance: Fire resisting doorset achieving 60 minutes fire resistance (Integrity) in accordance with EN 1634: 2014. Doors fitted with smoke seals to be in accordance with EN 1634-3. 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: EI30 Sa 4.1.2. Smoke leakage: Sa 4.1.3. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. 4.2. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB. 4.3. Thermal performance (U-value maximum): 1.4 W/m2K. 4.4. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627-EN(V)1630 4.5. Watertightness: Up to 600 Pa (class 3) 4.6. Air permeability: Up to 300 Pa (class 7A) 4.7. Resistance to wind load: Up to 800 Pa (class C2) 5. Door leaf 5.1. Material: Anodized Aluminium - to match finish as clase L10/ 410 6. Frame 6.1. Material: Anodized Aluminium - to match finish as clase L10/410 6.2. Threshold: Flat aluminium with brush seal 7. Architrave 7.1. Material: Plasterboard + skim to internal reveal. 8. Glazing/ infill details: 8.1. Type:: Double glazed 8.2. Fixing: Glass to be set against extruded EPDM rubber gaskets retained in undercut grooves within the aluminium profile and clip-in glazing beads					

	Description	Qty	Unit	Rate	€	c
	9. Ironmongery: 9.1. Handles: Shield handles, natural anodized 9.2. Access controls: Refer to electrical engineers specification 9.3. Closer: Overhead closer compatible with doorset manufacturer guidelines. 10. Perimeter seals: Fire and smoke seal + EPDM weatherseal. 11. Other requirements: Flush threshold drain with lapping DPC/EPDM on exterior side connected to surface water drainage network 12. Fixing: As per manufacturer's guidelines 13. Warranty: Ten year 14. Verification 14.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's certification and warranties for a period of 15 years. Manufacturer's literature and/ or certification. Declaration of Performance or a third-party certification in respect of fire performance by a EU-accredited third-party testing organizatio Evidence of CE marking 14.2. Timing: Before placement of orders. Inclusive of all fixings, framing, sealing, ironmongery (inclusive of door closer), complete, all in accordance with Architects Specification L20A/480					
A	Type WE - Window & door size to suit structural ope 2190mm wide x 2400mm high; inclusive of 1Nr door as per Architects Drawing 600	4	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Metal Doorsets Plant room					
	1. Description: Highly insulated aluminium doorset for plant rooms. 2. Manufacturer: Submit proposals 2.1. Product reference: Submit porposals 3. Types: Refer to architectural drawings 3.1. East Block - Plant room: Outward swinging double doors 3.1.1. Fire resistance: EI60Sa in accordance with IS EN 13501-2 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: EI60 4.1.2. Smoke leakage: Sa 4.1.3. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. 4.2. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB. 4.3. Thermal performance (U-value maximum): 1.6 W/m2K. 4.4. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627-EN(V)1630 4.5. Watertightness: Up to 600 Pa (class 3) 4.6. Air permeability: Up to 300 Pa (class 7A) 4.7. Resistance to wind load: Up to 800 Pa (class C2) 5. Door leaf 5.1. Material: Anodized Aluminium - to match finish as clase L10/ 410 5.2. Type:: Flush panel 6. Frame 6.1. Material: Anodized Aluminium - to match finish as clase L10/410 6.2. Threshold: Flat aluminium with brush seal 7. Architrave 7.1. Material: Plasterboard + skim to internal reveal. 8. Ironmongery: 8.1. Handles: Shield handles, natural anodized 8.2. Access control: Mortice lock with key and thumbturn internally 9. Perimeter seals: Fire and smoke seal + EPDM weatherseal. 10. Other requirements: Flush threshold drain with lapping DPC/ EPDM on exterior side connected to surface water drainage network 11. Fixing: As per manufacturer's guidelines 12. Warranty: Ten year 13. Verification 13.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's certification and warranties for a period of 15 years. Manufacturer's literature and/ or certification. Declaration of Performance or a third-party certification in respect of fire performance by a EU-accredited third-party testing organizatio Evidence of CE marking 13.2. Timing: Before placement of orders. Inclusive of all fixings, framing, sealing, ironmongery (inclusive of door closer), complete, all in accordance with Architects Specification L20A/485					
A	Door Type DK; single louvred door, to suit structural ope 1300 x 2250mm high; as per Architects Drawing 606	1	No			
B	Door Type DL; double louvred doorset, to suit structural ope 2030 x 2250mm high; as per Architects Drawing 606	3	No			
C	Ditto as last; 1250 x 2250mm high	1	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Gated Entrance Door					
A	Provide and install complete external gate; comprising of 60x40x3 Gate Frame; 40 x 10 vertical flats @ circa 90mm and 180mm c/c's as indicated on drawing, 40 x 40 RSA horizontal rails; 2Nr 40mm diameter solid hinge spigots fixed to steel plate set into and including concrete foundations; 2Nr solid hinge spigots fixed to soffit of concrete beam per detail 04 drawing 356, drop bolt & locking plate per details 02 & 03 drawing 356, 6mm flat plate push plate welded in between flats; inclusive of all metalwork, fixings, welding (on site if required), ironmongery, all shot blasted & primed, hot dip galvanised to BS 729, polyester powder coat to BS6497 to a minimum thickness of 60 micron, all as per Architects Drawing 356 & Specification size overall;					
B	Door Type DB; overall 2281 x 2825mm high double gate	1	No			
C	Extra over for magnetic doorlocks fixed to gates and associated wiring (if not already included for in the Electrical Installations element of this Pricing Document)	1	No			
	Painting and Decorating					
	MANUFACTURER: Submit proposals; PRODUCT REFERENCE:submit proposals; Paint system proposed to be designed for intended application, supported by manufacturer's product datasheet.; SURFACES: Uncoated or primed internal softwood or hardwood.; PREPARATION: As Clause 400.; INITIAL COATS: Primer as recommended by paint manufacturer.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer; UNDERCOATS: As recommended by manufacturer.; NUMBER OF COATS: 2 minimum, or as recommended by manufacturer.; FINISHING COATS: Satin.; NUMBER OF COATS: 1 minimum, or as recommended by manufacturer. FINAL COLOUR: to be confirmed, on submittal of colour range.; all as per Architects specification section M60 / 130					
	General surfaces; to timber base					
D	not exceeding 300mm	275	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Balustrades					
	External balustrades Imperforate glass barrier - L37/160E					
	1. Description: Imperforate metal balustrade on external edge of open deck access corridor to apartment units. Balustrade is to fixed between concrete superstructure members and create a smokeimpermeable barrier with guarding heigh of min. 1100mm above Internal FFL. 2. Contractor Responsibility:: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. 3. System manufacturer: Submit proposals 4. Performance: As clause 220. 5. Guarding 5.1. Material: Glazed panels with metal fixing channels 5.2. Finish: Polyester powder-coated, as section Z31. 6. Fixings:: Refer to drawings for fixing details - bolt or welds. Note countersunk bolts to be used where required. No spot welding 7. Height (to upper surface of rail) 7.1. Above FFL:: 1100mm 8. Verification:: 8.1. Submittals:: Fabrication drawings showing elemental sizes, fixings, anchorages to supporting structure and joint details in accordance with design intent drawings. 8.2. Timing:: Before placement of orders. All in accordance with Architects Specification L37/160E					
A	1100mm high; inclusive of 25 x 25mm HW handrail	216	m			
B	Extra over for 1Nr 130mm x 150mm steel angle and 1Nr 350mm x 150mm steel angle, fixed to concrete upstand as per Architects Drawing 350 detail 05 and Specification	216	m			
C	Extra over for forming ends to glass balustrades, incusive of 20 x 20mm steel angle fixed to concrete structure as per Architects Drawing 350 details 03 & 04; 1100mm high	172	No			

	Description	Qty	Unit	Rate	€	c
	External balustrades Hazard protection on access routes - L37/160F					
	1. Description: Guardrail on internal edge of open deck access corridors to provide hazard protection where windows open outwards into the access route. Guarding should be provided in compliance with requirements established by Technical Guidance Document M clause 1.1.3 and all associated references. 2. Contractor Responsibility:: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. 3. System manufacturer: Submit proposals 4. Performance: As clause 220. 5. Guarding 5.1. Material: Powdercoated steel 5.2. Finish: Polyester powder-coated, as section Z31. 6. Accessories:: Tapping bar is positioned 150mm above ground after installation, creating a reliable physical prompt for cane users. 7. Verification:: 7.1. Submittals:: Fabrication drawings showing elemental sizes, fixings, anchorages to supporting structure and joint details in accordance with design intent drawings. 7.2. Timing:: Before placement of orders 8. Other requirements: Stainless steel mesh on support angle to perimeter to contain pebble fill as shown on Floor Finish drawings. 20-40mm round washed pebbles, free from fines and sharps					
A	300mm high; as per Architects Drawings 357 & 358	194	m			
	Extra over for					
B	Ends	56	No			
C	Bends (90 degree)	56	No			
	Stone Ballast					
D	1. Type: rounded river washed pebbles 2. Size: 5-30mm 3. Depth:: minimum 50mm 4. Colour: white/silver grey	97	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	External balustrades Private amenity balconies and Privacy Screen - L37/160C					
	1. Description: Externally fixed metal balustrade fixed to steel superstructure to create a private amenity balcony with guarding height level of min. 1100mm above Internal FFL. 2. Contractor Responsibility:: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. 3. System manufacturer: Submit proposals 4. Performance: As clause 220. 5. Guarding 5.1. Material: Metal panels. 5.2. Finish: Polyester powder-coated, as section Z31. 6. Fixings:: Refer drawings for type of fixings - express bolts in some locations which must be architectural type fixings - weld connections in other locations as shown. No spot welding. Design of fixing to take account of wind and impact loads on deflection of all primary and secondary structural members. 7. Height (to upper surface of rail) 7.1. Above FFL:: 1100mm 8. Overlooking screen:: Open mesh steel panel required above balustrade to underside of structure above. For purpose of planning compliance to reduce overlooking impact on nearby houses. 8.1. Standard: Steel wire mesh to EN10223. 8.2. Mesh: Straight line woven wire - refer to architectural drawings 8.2.1. Material: Graepels, 3mm dia vertical wire :10x100mm centres nominally & 3mm Dia Wire crimped and interwoven with zero spacing. Steel with powdercoat finish 8.3. Frame: Polyester powder coated perimeter frame to mesh suitable for fixing to primary structure and balustrade - refer to architectural drawings 9. Verification:: 9.1. Submittals:: Fabrication drawings showing elemental sizes, fixings, anchorages to supporting structure and joint details in accordance with design intent drawings. Calculations showing how wind load and impact loads have been adressed. 9.2. Timing:: Before placement of orders					
A	1100mm high	268	m			
	Extra over for					
B	Ends	28	No			
C	Bends; 90 degree	12	No			
D	Woven wire mesh privacy screening from top of balustrade to underside of overhead balcony; inclusive of all steel surround angles, fixings, welding as before; circa 1400mm wide x 1900mm high as per Architects Drawing 352	32	No			
	Extra over for					
E	Ends	64	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting					
	Prepare and apply polyester powder coat to BS6497 to a minimum thickness of 60 micron, on steel					
A	Balustrade L37/160F (measured both sides)	111	m2			
B	Balustrade L37/160C (measured both sides)	590	m2			
C	Wire mesh screening (measured both sides)	171	m2			
	1. Manufacturer: Dulux system D4041 OR Equivalent 2. Surfaces: new exterior non resinous softwood, hardwood, plywood 2.1. Preparation: Woods with a knot content above that specified in BS EN 942 should not be used. New wood should ideally be preservative impregnated, see BS 8413:2003. In some situations this may be mandatory. Thoroughly clean down to ensure all areas are free from dirt, grease and surface contaminants. Carefully remove any plaster or mortar deposits. Remove oils from surface by wiping with White Spirit. Abrade overall in the direction of the grain to remove any grey denatured timber, raised grain and round all sharp edges (a radius of 1 mm to 2 mm for timber other than sills and thresholds; 3mm for sills and thresholds) and *dust off. Apply two thin coats of an appropriate knotting solution to all knots and resinous areas and allow to harden. Ensure all surfaces are fully dry before proceeding. Note *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. 3. Initial coats: 2 coats of Dulux Trade Weathershield Aquatech Preservative Basecoat + (BP) or equivalent. Make good all cracks, nail-holes, open joints and other imperfections with Dulux Trade Weathershield Exterior Flexible Filler or equivalent. 4. Finishing coats: 2 coats of Dulux Trade Weathershield Quick Drying Exterior Undercoat or equivalent of selected shade. One coat of Dulux Trade Weathershield Exterior Quick Drying Satin or equivalent of selected shade. All as per Architectes Specification M60/175B					
D	25 x 25mm handrail	194	m			
	Structural Steelwork & Decking To Balconies					
	This structural steelwork is measured in accordance with the Agreed Rules of Measurement, 2024 { ARM5 }, jointly published by the Society of Chartered Surveyors on the Republic of Ireland and the Construction Industry Federation.		Note			
	Rates are to include for all labours in connection with the following work including all fittings		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	All elements of the structure designed by the contractor shall be submitted to the Structural Engineer for comment.		Note			
A	The Contractor shall provide temporary bracing and shoring against lateral forces and all construction loads throughout the work. Design of temporary bracing and shoring to be submitted to the Structural Engineer for approval.		Note			
	Rates for Structural Steel are to include for all site welding. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref 85/4/5 & 6		Note			
	Rates for Structural Steel are to include for all site bolts. The Contractor shall note this measurement preamble amends the Agreed Rules of Measurement Ref page 85/2/3		Note			
	Provide for complying with the specification requirements for tests of materials; workmanship, tolerances and finished structures.		Note			
	Builders Work Requirements					
	The contractor must obtain in time all necessary information relating to the structural steel erection builders work to enable the works to be carried out without interruption. Any additional costs incurred by his failure to obtain this information will be at his own expense.					
B	Setting out Structural Steel with Specialist Contractor.	1	Item			
	Structural Steelwork					
	Notes:					
	1. The Contractor is required to design, provide and fix all necessary fittings; caps; bases; hunches; gussets, end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces; bolts and associated fittings and connections which may be necessary to complete this section of the works. The Contractor is required to liaise and co-ordinate with other trades to provide and fix all such fixings as may be necessary for this installation.		Note			
	2. The Contractor will be required to carry out 100% testing on all site welding as detailed in the Structural Engineer's Civil & Structural Specification.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	The following steelwork to be Grade S355; in accordance with BS EN 10025-2 and the Structural Engineers Civil and Structural Specification; fabrication, surface preparation, priming at works and site erection and treatment to comply fully with all aspects of the structural steelwork specification; all as per Engineer's Performance Specification.					
	Fabricated steelwork; welded fabrication bolted and welded site connections					
	The following in prefabricated steel framework including bolts, nuts and washers for steel connections shot blasted, shop primed and painted as per Engineers Specification and drawings, including fittings; caps; bases; hunches; gussets; end plates; splice plates; cleats; brackets; angles; stiffener plates; distances pieces and associated fittings					
	Fabricated Steelwork					
	Frame					
	Columns					
A	152 x 152 x 23 UC [SC1]	7.96	tonne			
	Beams					
B	152 x 152 x 23 UC [SB1]	17.29	tonne			
C	150 x 75 x 18 PFC [SB2]	22.56	tonne			
	Fittings					
D	Structural Steel Fittings	7.18	tonne			
	Connection To Concrete Structure					
E	Proprietary steel to concrete slab thermal connection designed by supplier for V=25kN; circa 300mm long and inclusive of end plates, bolt fixings, farrat or similar thermal plate; inclusive also of DPC, cavity tray, weep holes through brickwork, flashing etc. as required in sealing brickwork around steelwork and leaving perfectly waterproof. As per Engineers Drawing S-4000 and specification	92	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Holding down assemblies					
	4 nr. M25 grade 8.8 HRH holding down bolts 600mm long complete with 70mm diameter uPVC sleeves, 2 nr. 550mm long 90 x 90 x 8.0 RSA angles and 1 nr. 400mm long cross brace to form H-frame, cast into reinforced concrete foundations; all bolts welded to RSA H-frame					
	Cast into concrete					
A	generally	24	nr			
	Grouting					
	5 star non-shrink grout					
	Holding down bolts					
B	M25 x 600mm holding down bolts in 70mm diameter uPVC sleeves	96	nr			
	Epoxy mortar; steel shims for grouting and the like					
	Base Plates					
C	400 x 400mm	24	nr			
	Protective Coatings					
D	Hot dip galvanising to BS 729 after fabrication; coating with 2 ply epoxy as per Engineers Specification	54.99	tonne			
	Painting					
	1. Manufacturer: Firwood OR Equivalent 2. Surfaces: Exterior Ferrous Metals 2.1. Preparation: Scrub the surfaces with Dulux Oil and Grease remover or equivalent, rinse with water, allow to dry. Power or hand tool clean to st3 BS EN ISO 8501-1: 2007 3. Initial coats: Apply one coat of Firwood or equivalent Rapid dry chromate free etch primer, wet film thickness 80-160 microns. 4. Finishing coats: Apply two coats of Firwood 114 or equivalent pigmented alkyd resin with Micaceous Iron Oxide, wet film thickness 80-200 microns 5. Other requirements: Sample required					
E	Girth >300mm	1688	m2			
	Stainless Steel Steelwork					
	Windpost					
F	140 x 70 x 4 UA [WP2]; fixed to concrete structure; inclusive of fixings; as per Engineers Specification	203	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Decking					
A	100 x 50 x 25 treated hardwood timber decking; fixed to steelwork	393	m2			
	Painting					
	1. Manufacturer: Dulux system D4041 OR Equivalent 2. Surfaces: new exterior non resinous softwood, hardwood, plywood 2.1. Preparation: Woods with a knot content above that specified in BS EN 942 should not be used. New wood should ideally be preservative impregnated, see BS 8413:2003. In some situations this may be mandatory. Thoroughly clean down to ensure all areas are free from dirt, grease and surface contaminants. Carefully remove any plaster or mortar deposits. Remove oils from surface by wiping with White Spirit. Abrade overall in the direction of the grain to remove any grey denatured timber, raised grain and round all sharp edges (a radius of 1 mm to 2 mm for timber other than sills and thresholds; 3mm for sills and thresholds) and *dust off. Apply two thin coats of an appropriate knotting solution to all knots and resinous areas and allow to harden. Ensure all surfaces are fully dry before proceeding. Note *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. 3. Initial coats: 2 coats of Dulux Trade Weathershield Aquatech Preservative Basecoat + (BP) or equivalent. Make good all cracks, nail-holes, open joints and other imperfections with Dulux Trade Weathershield Exterior Flexible Filler or equivalent. 4. Finishing coats: 2 coats of Dulux Trade Weathershield Quick Drying Exterior Undercoat or equivalent of selected shade. One coat of Dulux Trade Weathershield Exterior Quick Drying Satin or equivalent of selected shade.					
B	>300mm	393	m2			
C	>300mm; to soffit	393	m2			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/7/1					
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Page No. West/7/11					
Page No. West/7/12					
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Page No. West/7/16					
Page No. West/7/17					
Page No. West/7/18					
Page No. West/7/19					
Page No. West/7/20					
Page No. West/7/21					
Page No. West/7/22					
Page No. West/7/23					
Page No. West/7/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/7/25					
EL (31) EXTERNAL WALL COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (32) INTERNAL WALL COMPLETIONS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 125-128, 580-585, 610-615, Architects Internal Door Schedule, Architects Ironmongery Schedule, Architects Specification		Note			
B	The Structural Engineer's & Architects drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	For detailed description of workmanship and materials see specification.		Note			
D	All exposed hardwood and softwood shall be kept clean in preparation for decoration		Note			
E	Doorsets described as fire resisting are to be provided exactly in accordance with a specification describing construction and ironmongery which as when tested to BS 476: Part 8 or BS 476: Part 22: 1987 provided fire resistance of no less period than specified		Note			
F	Manufacturing Test Certificates, Reports, Supplements and Evaluations are to be provided as evidence that all functions, sizes and glazing arrangements that are to be supplied are approved.		Note			
G	All fire doors are to be identified by a permanently fixed small flush metal plate, indicating the period of fire resistance, manufacturer, year of manufacture and other pertinent details		Note			
H	Doors and screens (measured separately) in this section have not been fully described and the Contractor is to examine the joinery details and to include in his rates for all hardwood spacers, frames, heads, cills, jambs, mullions, transoms, plinths, doorstops, glazing beads, fillers etc. and all their associated labours, all exposed components to be glued and countersunk screwed only (securing frames i.e. holes, bolts and mortices in solid concrete blockwork are measured separately)		Note			
J	All Internal doors are to conform to part 1.9 (a,b,c,d,e,f) and diagram 5 and 6 of the TGD part M 2000		Note			
K	NOTE: Design Team preference for complete Door System manufacturer and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Contractor is required to provide complete Door System manufacture and final certification by one supplier (frame, ironmongery etc.). Where alternative is proposed method for certification by contractor should be submitted for Design Team approval.		Note			
B	Doorsets and screens to be fully finished , decoration etc, before fitting on site. contractors to include here for all necessary protection to finished doorsets and screens, including for all necessary touch-ups etc. as required, prior to handover at completion of the building contract.		Item			
	Contractor to identify party that will act as ancillary certifier for complete doorset (Doorset ancillary certifier). Doorset ancillary certifier to ensure the following; All per Architect's Specification L20					
C	- that Fire Test Certification is available for all doorsets		Note			
D	- that Fire Test Certification for each doorset is compatible with proposed door frame detail, and with proposed gap under door (in particular if gap is required below door for air circulation)		Note			
E	- that doorset is installed in accordance with fire test certification, in particular in relation to gap between frame and ope, and between doorset and frame/ floor below		Note			
F	- that ironmongery proposed is fully compatible with Fire Test Certification for door and frame		Note			
G	- that proposed doorsets comply with both Part B for closing force requirements and Part M for opening force limits		Note			
H	- that minimum acoustic standards for entire doorset are met		Note			
J	- that all maglocks are installed and commissioned to ISEN13637		Note			
K	- that all fire rated glazed screens are fitted with appropriate glazing to ensure that integrity and insulation requirements are met		Note			
L	- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.		Note			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK					
	Second Fixings					
	1. Hardwood Architrave to BS 1186-3 1.1. Species: European Oak (Quercus Petrea) 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: Pencil round arris 4.1. Finished size: 100mm x 19mm 5. Finish as delivered: clear matt lacquer as clause N10.025 6. Fixing: screwed and pelleted or as noted on the drawings. Include for all necessary mastic seals, etc. complete. All per Architect's Specfication P20/120A					
	Architrave					
A	100 x 19mm thick	2782	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Composite Items					
	Non Fire Rated Doorsets Including Frames					
	1. Description: Refer to architectural drawings 600 series for details: 2. Relevant door types:: C, I, J, K, CG & CK 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: NFR 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 120 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufacturers's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: Nominal 125 x 57mm European Oak all as per clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: N/A 9. Architrave: As clause P20/120A (measured separately) 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturers literature and/ or certification. Test results, report and certification from an accredited testing facility. CE Declaration of Performance or a third-party certification in respect of fire performance by an EU / NSAI-accredited third-party testing organization. Manufacturer's certification and warranties for a period of 15 years. 15.2. Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410A					
	Single Doorsets & Frame					
A	Doorset Type C - 1,070 x 2,250mm high, include for supply and fitting ironmongery Set KR1002	24	No			
	Double Doorsets & Frame					
B	Doorset Type I - 1,567 x 2,250mm high; double doorset, include for supply and fitting ironmongery Set KR1002	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Fire Rated Doorsets Including Frames					
	1. Description: Refer to architectural drawings 600 series for details: 2. Relevant door types:: A, F, G, H, V 3. Manufacturer: Submit proposals 4. Performance 4.1. Fire performance 4.1.1. Fire resistance: To IS EN 13501-2, E30. 4.1.2. Smoke leakage: N/A 4.1.3. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 4.1.4. Evidence: As clause 115 4.2. Acoustic performance: To EN ISO 10140-2, sound reduction index Rw 35 db minimum. - unless otherwise stated on architectural drawings. 4.3. Mechanical strength: To IS EN 1192, Class 2 - unless otherwise stated on architectural drawings. 5. Door leaf 5.1. Core: laminated solid timber or 3 layer particleboard solidcore 5.2. Thickness: As required by manufacturers's performance evidence - nominal 44 mm. 5.3. Facings: Veneered MDF or plywood. 5.4. Veneer: European Oak (Quercus Petrea) Crown cut and book matched subject to approved sample 5.5. Lippings: 9mm solid hardwood continually bonded to core: note veneer runs over 5.6. Finish as delivered: 2 coats matt lacquer 6. Frame: Nominal 125 x 57mm European Oak all as per clause 330 7. Door Operation: Single Leaf & Double Leaf - refer to architectural drawings 8. Closer: Overhead concealed 9. Architrave: As clause P20/120A (measured separately) 10. Glazing/ infill details: 10.1. Vision panels:: N/A 10.2. Side panel:: N/A 10.3. Manifestation: N/A 11. Beading: N/A 12. Ironmongery: Refer to ironmongery schedule 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification 15.1. Submittals: Product sample as specified, including integral accessories, with certification demonstrating compliance with the performance requirements of the system. Manufacturer's literature and/ or certification. Test results, report and certification from an accredited testing facility. CE Declaration of Performance or a third-party certification in respect of fire performance by an EU / NSAI-accredited third-party testing organization. Manufacturer's certification and warranties for a period of 15 years. 15.2. Timing: Before placement of orders. Include for all necessary packer pieces etc. complete, all as per Architects Specification L20B/410B					
	Single Doorsets & Frame					
A	Doorset Type A - 1,070 x 2,250mm high; FD30, include for supply and fitting ironmongery Set KR1014	72	No			
B	Doorset Type D - 1,070 x 2,250mm high; double action door; FD30, include for supply and fitting ironmongery Set KR1067	32	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Leaf & Half Doorsets & Frame					
A	Doorset Type E - 1,370 x 2,250mm high; leaf & half double doorset; FD30, include for supply and fitting ironmongery Set KR1414	24	No			
	Double Doorsets & Frame					
B	Doorset Type F - 985 x 2,250mm high; double doorset; FD30, include for supply and fitting ironmongery Set KR1714	40	No			
C	Doorset Type H - 1,567 x 2,250mm high; double doorset; FD30, include for supply and fitting ironmongery Set KR1714	24	No			
D	Doorset Type G - 1,190 x 2,250mm high; double doorset; FD30, include for supply and fitting ironmongery Set KR1714	8	No			
E	Doorset Type J - 935 x 2,250mm high; double doorset; FD30, include for supply and fitting ironmongery Set KR1714	8	No			
	CONCEALED FRAME RISER DOORS FD60S					
	1. Description: Refer to architectural drawings 600 to 605 for details: 2. Relevant door types:: I, S, T, W and Storage unit in B Apartment Type in West Block, Riser Doors in Service Core in West Block. CP and CO in DVR 3. Manufacturer: selo or equivalent 3.1. Product reference: Quadra+ Riser Door System or equivalent 4. Door Size: Custom - refer Schedule 5. Door construction: 1.2mm sheet steel with mineral wool core 6. Frame Type: Concealed (as Standard) 7. Finish: Powdercoated - RAL colour to architects specification 8. Performance 8.1. Fire performance 8.1.1. Fire resistance: FD60S as per Fire Certificate Requirements To IS EN 13501-2, E60. E120 - Bi-directionally fire tested 8.1.2. Smoke leakage: Sa. 8.1.3. Smoke seal: Required 8.1.4. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. 9. Frame: As clause 330 10. Door Operation: Single Leaf / Double Leaf - refer to architectural drawings 11. Closer: Concealed overhead 12. Beading: N/A 13. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance 14. Other requirements: Hardwood doorstops 15. Verification as per Architects Specification					
F	Double doorset; to suit structural ope 2030 x 2250mm high	2	No			
G	Double doorset; to suit structural ope 1250 x 2250mm high	1	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting and Decorating					
	Prepare substrate, apply 1Nr coat Dulux MDF primer undercoat and 2Nr coats Dulux Trade Diamon Eggshell finish paint in colour to later Architects Selection; all in accordance with Architects Specification M60/175A to:					
	Door Frame;					
A	girth <300mm	1391	m			
	Door Architrave,					
B	girth <300mm	2782	m			
	Doors					
C	>300mm	1275	m2			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/8/1					
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Page No. West/8/4					
Page No. West/8/5					
Page No. West/8/6					
Page No. West/8/7					
EL (32) INTERNAL WALL COMPLETIONS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
EL (33) & (34) FLOOR & STAIR COMPLETIONS					
INFORMATION					
This element of the work has been measured from the Architects Drawing Nos. 406, 407, 408, 503, 504, 505, 508 and Architects Specification		Note			
This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
For detailed description of workmanship and materials see specification.		Note			
The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
Notes:					
1. The tenderer is required to provide and fix all fixings, supports etc. which may be necessary to complete the works.		Note			
2. "Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, Fourth Edition 2009, the Tenderer should note the following deviations at:		Note			
(a) grouting, drilling/forming holes in other construction for fixings deemed to be included within the referenced unit rate item		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Balustrades Including Handrail					
	Balustrade; Purpose Made Balustrades Panels with vertical bars, to stairs Component material, grade and finish as delivered: - Guarding: - [Balustrade posts to be 50 x 10mm mild steel flats @ 100mm c/c, on mounting plate at base (typically 120mm dia), fixed to side of pre-cast stair structure. Posts typically 50x10mm each, with size and spacing of elements as noted on details. Max post spacing 3 steps, or 900mm. Posts to be bolted to side of precast stairs with M12 resin anchor fixings, finished with dome headed nut. Fixings to be to contractor design to suit loading requirements as required by Building Regulations. - Infill panel frames to be formed from welded mild steel flats, typically 40x8mm, with size and spacing of elements as noted on details. Note curved end panel frames. Panel infill within frames to be mild steel round sections, typically 15mm diameter, welded to frames and equally spaced within panel. Max gap within infill panels to be less than 100mm. Panel fixings to posts to have nylon spacers. Handrails:- Handrail to be 50mm dia Iroko, with flat bottom rebated to take a 30x6mm flat. - Handrail connection to posts as shown in details - mild steel round sections, typically 15mm diameter, bent to 90deg with a consistent radius, welded into the gap between the paired post flats prior to installation, and connected to the handrail by a steel plate recessed into a rebate in the handrail. Workmanship: - Generally, posts and balustrades to be made separately and separately installed on site (ie.not pre-welded together). Allow for tolerance of 3-5mm between connecting elements. No site welding will be accepted for pre-finished metalwork. Joinery: [To section Z10]. Metalwork: [To Z11 generally, finish to Z11/780]. Other requirements: [Finish to be PPC coated to a selected RAL colour. Steel to steel bolted fixings to be flat headed and countesunk, or finished with a dome headed nut - Contractor to ensure that all balustrading, including all connections, complies with BS 6399.]. All per Architects Drawings and Specification Section L30/550D					
	Balustrades & handrail; all as per Architects Specification L30/550D and in accordance with Architects Specification L30/107 and to meet design intent as indicated on Architects Drawings 406, 407, 408, 503, 504, 505; inclusive of all fixings, welding etc. complete					
A	balustrade; circa 1400mm high; horizontal	8	m			
B	balustrade; circa 1400mm high; horizontal; curved	7	m			
C	balustrade; circa 1400mm high; raking	24	m			
D	e/o for bends	12	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	e/o for ends	2	no			
	Handrail					
	45mm diameter stainless steel handrail welded to stainless steel brackets fixed to blockwork wall					
B	Horizontal	7	m			
C	Horizontal; curved	17	m			
D	Raking	24	m			
E	e/o for ends, turned into wall	9	no			
	Painting					
	Prepare and apply polyester powder coat to BS6497 to a minimum thickness of 60 micron, on steel					
F	Balustrades (measured both sides)	110	m2			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/9/1					
Page No. West/9/2					
Page No. West/9/3					
EL (33) & (34) FLOOR & STAIR COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (37) ROOF COMPLETIONS					
	GENERAL INFORMATION					
	For further details refer to Architects drawings and specifications.		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
	ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Metal Coverings					
	Lead Flashings					
	Apron flashing over glass canopies and statue rooflight; Milled Lead Sheet to BS 1178: LEAD - Thickness: 2.00 or 2.24 mm (Code 5). DIMENSIONS: - Lengths: Not more than 1500mm. - End to end joints: Laps of not less than 100mm. - Upstand: Not less than 75mm. - Cover to abutment: Not less than 100mm. FIXING: head fixed as clause 705; bottom fixed stainless steel clips at 300mm centres as clause 715. - Apron flashing over high profile patent glazing: Leadwelded capping over profile of glazing bare required. Painting flashings with 2 coats bitumastic paint; Alternative manufacturer's recommended detail may be acceptable. Submit proposals. all in accordance with the Works Requirements and in particular Architects drawing no`s. 124 and specification clause H71/410					
	Cover Flashings					
A	code nr. 5 lead; girth 300 - 450mm	16	m			
	Aprons					
B	code nr. 5 lead; girth 150 - 300mm; bends -1; dressing over glazing	16	m			

	Description	Qty	Unit	Rate	€	c
	GLAZING: Special Glazing					
	Smoke Vents					
	Thermally broken powder coated aluminium glazed rooflight / AOV fitted with electrical / electronic control mechanism and mounted on manufacturers kerb designed to be laid over builder upstand in reinforced concrete to engineers detail. Activating rams to be located in concealed pockets at each side of the louvre. Unit is to be supplied as a complete package incorporating all controls for activation, interlinking with Fire alarm / firemans switch, as well as passive ventilation control fitted with automatic closing if so signaled by externally mounted rain sensor. all in accordance with the Works Requirements and in particular Architects drawing no.124 and specification clause L10/490A					
A	ope size to achieve 1.00m2 of free opening area	2	nr			
B	Extra over for upstand kerbs	2	nr			
C	roof access ladder with lockable security panel; all in accordance with the Works Requirements and in particular Architects drawing no.124 and specification clause N25/131	2	nr			
	METALWORK: Non Structural - Composite Items					
	Fall Prevention System					
	8mm stainless steel cable system on posts as per N25 specification and drawings. Posts may deform in the event of a fall but must not come apart - i.e. must be fully welded with no internal spring or other active mechanisms. All in accordance with EN 795 for use with Personal Fall Protection Equipment (PFPE measured elsewhere); Systems located to work as fall restraint, design to allow for full fall arrest in case of misuse; if true fall arrest required include for appropriate Rescue System. Weathering by others. Product; Skyway (046 9241771) Continuous Fall Prevention System including anti-pendulum anchors for safe access to 100% of the roof. Tenderer to have € 6.50m specific Professional Indemnity Insurance. all in accordance with the Works Requirements and in particular Architects drawing no. 124 and specification clause N25/210A					
	Cable, support posts and anti-pendulum anchors; (including all weathering of support posts)					
D	layout as per Architects drawing no.129	184	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Personal Fall Protection Equipment (PFPE)					
	1 no. ful body Harness, 2 no. 2.0m long energy absorbing Lanyards, 1 no. removable transfastener					
A	sets	2	nr			
	Aluminium Roof Bridging Ladder; comprising 2 No. access ladders with aluminium access platform between; Contractor Design to BS 5395 and BS4222Ladders					
	8mm stainless steel cable system on posts as per N25 specification and drawings. Posts may deform in the event of a fall but must not come apart - i.e. must be fully welded with no internal spring or other active mechanisms. All in accordance with EN 795 for use with Personal Fall Protection Equipment (PFPE measured elsewhere); Systems located to work as fall restraint, design to allow for full fall arrest in case of misuse; if true fall arrest required include for appropriate Rescue System. Weathering by others. Product; Skyway (046 9241771) Continuous Fall Prevention System including anti-pendulum anchors for safe access to 100% of the roof. Tenderer to have € 6.50m specific Professional Indemnity Insurance. all in accordance with the Works Requirements and in particular Architects drawing no. 124 and specification clause N25/210A					
	Cable, support posts and anti-pendulum anchors; (including all weathering of support posts)					
B	layout as per Architects drawing no.129	184	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/10/1					
Page No. West/10/2					
Page No. West/10/3					
Page No. West/10/4					
EL (37) ROOF COMPLETIONS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (41) WALL FINISHES EXTERNALLY					
	General Information					
	LOCATION DRAWINGS: Location drawings for this Element are listed in the drawing registers.		Note			
	WORKS REQUIREMENTS: The Contractor is referred to the Drawings and Specifications which accompany this Pricing Document. All Bill of Quantities descriptions shall be read in conjunction with this information.		Note			
	PRICING DOCUMENT: The Contractor must refer to the Drawings and Specifications for full specification notes and details relating to particular items of work. The Contractor shall be deemed to have studied the Drawings and Specifications in detail and included for all items necessary for the proper completion of the Works as defined therein.		Note			
	FLOOR, WALL AND CEILING FINISHINGS					
	Rendered External Wall Insulation System					
	Proprietary rendered external wall insulation system; Reaction to fire system performance in line with BS EN 13501-1: A2; U-value reference 0.17W/m2k; prepare substrate and apply proprietary board adhesive coat to a maximum of 15mm thick; fixing system recommended by the system manufacturer to suit substrate conditions and performance requirements;. Rigid sheet mineral fibre insulation board 200mm thick, Board thermal conductivity 0.036W/m2K ; board size 1200 x 600mm; board density 100kg/m2; board compressive strength 10kPa; boards mechanically fixed to concrete blockwork/concrete with proprietary KI10 masonry anchors at manufacturuers recommended centres; Proprietary base course render coat to be applied 4-6mm thick in two coats with minimum 24 hours between coats; Reinforcing mesh to be IAVPC mesh, mesh to be imbedded in render base coat; Primer coat, to be proprietary acrylic dispersion priming coat in same colour as decorative base coat: Decorative finish coat to be proprietary finish coat, thickness as per manufactures recommendation, Grain size 1.6mm; colour to be as directed by Architect; System to be installed in strict accordance with the manufacturers written instructions and as per Architects Specification M21 210					
	Acrylic Render					
A	>300mm wide	458	m2			
B	<300mm; closing at heads	97	m			
C	<300mm; closing at reveals	124	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Extra over insulated render system for					
	Base Track; Mill finished aluminium box base track; fixed to concrete; all as per Architects Specification M21 13.1					
A	generally	138	m			
	Corner bead; UPVC thin coat corner bead with mesh wings (100 x 150mm); installed on continuos band of base coat; fixed to concrete; all as per Architects Specification M21 13.2					
B	generally	221	m			
	Render stop bead; UPVC 6mm thick; fixed to concrete; all as per Architects Specification M21 13.3					
C	generally	221	m			
	Render movement bead; UPVC 6mm thick; fixed to concrete all as per Architects Specification M21 13.4					
D	generally	105	m			
	Sundries					
	Proprietary expanding sealing compression tape; all as per Architects Specification M21 13.7					
E	generally	221	m			
	Proprietary gun applied sealant; all as per Architects Specification M21 13.8					
F	generally	221	m			
	Sundries					
	Samples; sample panel for proposed system; all as per Architects Specification M21 360					
G	overall size 1350 x 1350mm	1	nr			

	Description	Qty	Unit	Rate	€	c
	FLOOR, WALL AND CEILING FINISHINGS: Tile, Slab and Mosaic Finishes					
	Mosaic Tiles					
	Door Surrounds and Service Risers (Composite Item)					
	Glass Mosaic tiling, to calcium silicate background; TILES: 23mm x 23mm x 4mm thick; contrasting colours for numbering; Contractor to submit samples; Colour, Light blue green; Clear glass gloss finish; BEDDING: bedding with adhesive to BS EN 12004-1; proprietary grouting with approved grout to match tiling; all fixed to and including 15mm thick calcium silicate fibre reinforced board; all fixed to 40 x 40mm C channelsstuds; include for air tightness tape, aluminium stainless steel trim; all as per Architects Drawing No.s 365, 366,367, 368 and Architects Specification M40 120					
	Door Surrounds and Service Riser					
A	Apartment type A; overall size 2625mm wide x 2875mm high x 250/475mm deep	16	nr			
B	Apartment type B; overall size 2625mm wide x 2875mm high x 250/475mm deep	8	nr			
C	Apartment type C; overall size 1775mm wide x 2850mm high x 300/475mm deep and return 1390mm long x 2850mm high x 210mm wide	8	nr			
	Extra Over for;					
D	Incorporating Fire rated access panels (tiled) and fire rated metal riser doors, all per Archtect's drawings	64	nr			
	Sundries					
	Samples; sample panel for proposed system; all as per Architects Specification M40 250					
E	overall size 1350 x 1350mm	1	nr			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/11/1					
Page No. West/11/2					
Page No. West/11/3					
Page No. West/11/4					
EL (41) WALL FINISHES EXTERNALLY **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (42) WALL FINISHES INTERNALLY					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 125-129, 165, 166, 488, 489, 490, 491-499 & Architects Specification		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Stud Partitions (Fire rated where specified))					
	K110115A: Metal stud partition system REI60					
	1. Description: 60 min fire rated partition for use forming compartment walls. 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: Allow for weight of ceramic tiles, as section M40 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: 60 minutes fire resistance for load bearing capacity, insulation and integrity in accordance with EN 1364-1:1999/EN 1365-1:2012/EN1365-2:2000 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: The integrity of partition should not be breached to allow for the installation of services, e.g. pipes, wires, flues etc except where necessary to allow services pass through these compartment walls. Where services pass through these compartment walls or floors, they should be contained in fire-resistant ducts, and the opening of such ducts should be protected and fire-stopped. Baffle boxes are not accepted. 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 53 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: As recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: Two layers 15 mm plasterboard as clause 404 each side - Unless otherwise recommended by board manufacturer to meet specified performance					
	12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12. Include for flexible Fire Resistant Sealant applied around both sides of perimeter to boarded sides of partition framework to achieve applicable required fire rating. All per Architects Specification Section K10					
A	Height circa 2,850mm	32	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Three -way intersection;	16	No			
B	Abutting other finishes	16	No			
C	Top of partition system comprising of 1layer of 50 x 25mm deep fire batt insulation, 1 layer of 15mm thick x 100mm high Glasroc F Firecase plasterboard each side; continuous intumescent fire sealant to achieve stated fire rating requirements; airtight/acoustic sealant to each side of plasterboard at junction with concrete soffit to comply with required Acoustic rating of partition type; inclusive of all required fixings etc. complete and as per typical details on Architects Drawing 510. All to achieve 60/60 fire rating	32	m			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
D	Structural ope 1070mm wide x 2250mm high (Single doors)	8	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	K10/115B. Metal stud partition system REI30 1. Description: 30 min fire rated partition for use forming protected corridors. 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: All services penetrations and socket boxes are to be sufficiently firestopped as per Section P12 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 43 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: One layer 12.5 mm Wallboard each side - Unless otherwise recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12					
A	Height circa 2,850mm	442	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Angles to partitions;	56	No			
C	Three -way intersection;	176	No			
D	Abutting other finishes	64	No			
E	Grounds to support sanitary ware, etc.		Item			
F	Grounds to support kitchen fittings, etc.		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
A	Structural ope 1100mm wide x 2250mm high	72	No			
B	Structural ope 1200mm wide x 2250mm high	8	No			
C	Structural ope 1400mm wide x 2250mm high	24	No			
D	Structural ope 1600mm wide x 2250mm high	8	No			
E	Structural ope 1700mm wide x 2250mm high	16	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	K10/115C. Metal stud partition system REI30 + MR					
	1. Description: 30 min fire rated partition for use forming protected corridors where one side of partition faces wet / humid environment 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required. 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: A2 - s3, d2 5.2. Fire resistance of complete partition assembly: To IS EN 13501-2, REI 30 5.3. Fire performance partitions identification: Install fire performance labels to all new fire-rated partitions. 6. Fire separation 6.1. Services integration: All services penetrations and socket boxes are to be sufficiently firestopped as per Section P12 7. Acoustic performance 7.1. Standard: IS EN ISO 717 7.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 8. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 9. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 10. Resilient layer: As recommended by board manufacturer to meet specified performance 11. Linings: One layer 12.5 mm plasterboard as clause 403 to one side + one layer 12.5mm wallboard As recommended by board manufacturer to meet specified performance 12. Finishing: Skim coat plaster as clause 680 12.1. Primer/ Sealer: Primer to painted areas 12.2. Accessories: Beads/ stops as recommended by board manufacturer 13. Other requirements: Fire-stopping around services as section P12. Include for flexible Fire Resistant Sealant applied around both sides of perimeter to boarded sides of partition framework to achieve applicable required fire rating. All per Architects Specification Section K10					
A	Height circa 2,850mm	68	m			
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
B	Three -way intersection;	64	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Top of partition system comprising of 1layer of 50 x 25mm deep fire batt insulation, 1 layer of 15mm thick x 100mm high Glasroc F Firecase plasterboard each side; continuous intumescent fire sealant to achieve stated fire rating requirements; airtight/acoustic sealant to each side of plasterboard at junction with concrete soffit to comply with required Acoustic rating of partition type; inclusive of all required fixings etc. complete and as per typical details on Architects Drawing 510. All to achieve 30/30 fire rating	68	m			
B	Grounds to support sanitary ware, etc.		Item			
C	Grounds to support kitchen fittings, etc.		Item			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
D	Structural ope 1100mm wide x 2250mm high	32	No			
	K10/115D. Metal stud partition system NFR 1. Description: non fire rated partition for general use demising rooms 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: Class B - s3-d2 6. Acoustic performance 6.1. Standard: IS EN ISO 717 6.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 7. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 8. Insulation: 50mm acoustic roll - or as recommended by board manufacturer to meet specified performance 9. Resilient layer: As recommended by board manufacturer to meet specified performance 10. Linings: One layer 12.5 mm Wallboard each side - Unless otherwise recommended by board manufacturer to meet specified performance 11. Finishing: Skim coat plaster as clause 680 11.1. Primer/ Sealer: Primer to painted areas 11.2. Accessories: Beads/ stops as recommended by board manufacturer					
E	Height circa 2,850mm	334	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Angles to partitions;	32	No			
B	Three -way intersection;	144	No			
C	Abutting other finishes	64	No			
D	Fair ends	40	No			
E	Grounds to support sanitary ware, etc.		Item			
F	Grounds to support kitchen fittings, etc.		Item			
	Forming openings to doors; include for galvanised steel angle bead / stop bead as required in the following range of sizes;					
G	Structural ope 1100mm wide x 2250mm high	24	No			
	K10/115E. Metal stud partition system NFR + MR 1. Description: non fire rated partition for general use demising rooms where one side of partition faces wet / humid environment 2. Partition type: Single row 70mm C studs 2.1. Centres: As per manufacturers guidelines to achieve require performance 3. Head condition: In situ concrete slab, Existing ribbed slabs & steel frame with timber joists 3.1. Deflection allowance: 25 mm maximum. 4. Structural performance 4.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 4.1.1. Additional test requirements: Not required 4.1.2. Maximum height: 3800mm 4.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 4.3. Other requirements: None 5. Fire performance 5.1. Reaction to fire: Class B - s3-d2 6. Acoustic performance 6.1. Standard: IS EN ISO 717 6.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: 40 7. Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance. 8. Insulation: 50mm acoustic roll or as recommended by board manufacturer to meet specified performance 9. Resilient layer: As recommended by board manufacturer to meet specified performance 10. Linings: One layer 12.5 mm plasterboard as clause 403 to one side + one layer 12.5mm wall board As recommended by board manufacturer to meet specified performance 11. Finishing: Skim coat plaster as clause 680 11.1. Primer/ Sealer: Primer to painted areas 11.2. Accessories: Beads/ stops as recommended by board manufacturer					
H	Height circa 2,850mm	183	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over for the following; include for galvanised steel angle beads / stop beads as required					
A	Three -way intersection;	64	No			
B	Abutting other finishes	64	No			
C	Grounds to support sanitary ware, etc.		Item			
D	Grounds to support kitchen fittings, etc.		Item			
	K10/422: Gypsum fibre board (reduced water absorption) Tilebacker H					
	1. Type: A plasterboard with water resistance properties suitable as a tile backing board in areas subject to high levels of moisture, such as kitchens, bathrooms, shower cubicles and wet rooms 2. Manufacturer: Gyproc OR Equivalent 2.1. Product reference: Glasroc H TILEBACKER OR Equivalent 3. Thickness: 12.5 4. Shear strength: NPD to EN 15283-1: 2008 +A1: 2009 5. Reaction to fire: A1 to EN 15283-1: 2008 +A1: 2009 6. Water vapour resistance factor: 10 to EN 15283-1: 2008 +A1: 2009 7. Thermal conductivity: 0.3W/mK to 8. Other characteristics: EN 15283-1: 2008 +A1: 2009 9. Exposed surface and edge profiles: Clean and undamaged. Suitable to receive specified finish. Inclusive of metal studwork and framing per Manufacturers recommendations					
E	Height circa 550mm (side of baths)	55	m			
F	Height circa 1,050mm	61	m			
G	Height circa 2,850mm	32	m			
	Shelf to top of low level wall comprising of 8mm toughened glass on plywood backer, inclusive of grounds, fixing, silicone sealant, all as per Architects Drawing 492, 493 & Specification					
H	Circa 260mm wide	61	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	K10/145A; Wall lining system (metal studs) Acoustic & services 1. Description: Independent wall lining system to provide acoustic seperation and accomodate building services. 2. Partition type: 30mm Gypframe lining channel - or equivalent 2.1. Centres: 300mm unless otherwise instructed as per manufacturers guidelines to achieve require performance 3. Services zone depth (between studs): 50mm 4. Wall lining height: 3000mm 4.1. Intermediate bracing: As per manufacturers guidelines to achieve require performance 5. Head condition: 5.1. Deflection allowance: 25mm maximum 6. Structural performance 6.1. Strength grade: To BS 5234-2, Grade 'Medium duty' (MD) 6.2. Pattressing: 12 mm Plywood to be installed between studs between 600 mm and 1200 mm where required - as indicated on architectural drawings 6.3. Other requirements: Allow for weight of ceramic tiles, as section M40 7. Fire performance 7.1. Reaction to fire: Class B - s3-d2 7.2. Fire resistance of complete wall lining assembly: NFR 8. Acoustic Performance: 8.1. Standard: IS EN ISO 717 8.2. Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1:: 59 9. Metal framing: Type recommended by board manufacturer to complete the partition system and achieve specified performance. 10. Insulation: glass mineral wool insulation infill batt 10.1. Recycled content: 50% (minimum) to BS EN ISO 14021 11. Resilient layer: As recommended by board manufacturer to meet specified performance 12. Linings: One layers 15 mm plasterboard as clause 401. - Unless otherwise recommended by board manufacturer to meet specified performance 13. Finishing: Skim coat plaster as clause 680 13.1. Primer/ Sealer: Primer to painted areas 13.2. Accessories: Beads/ stops as recommended by board manufacturer					
A	Height circa 2,850mm	169	m			
B	Grounds to support kitchen fittings, etc.		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Pipe Casing					
	Composite Item					
	Boxing to pipework, vertical, Include for Softwood framework inclusive of any additional required supports. Type High density general purpose. Manufacturer/ Supplier: contractor's choice. Fire rating: Class 0 surface spread of flame. Finish: 3mm skim coat sanded and primed to receive painting to match walls. Linings: 1 layer 12.5mm gypsum and cellulose fibre high impact board over 1 layer 12.5mm plasterboard with high density acoustic core. Edges: Square. Fixing to supports: as per manufacturers instructions. 15mm shadow gap to all junctions with contrasting finishes. Include for filling cavity with compacted mineral wool insulation. Include also for all required sealing to achieve stated fire resistance					
	To achieve 60min fire resistance					
A	800 x 300mm; 4 sided boxout (vertical height measured)	103	m			
B	750 x 250mm; 2 sided boxout (ditto)	92	m			
	In-Situ Finishes					
	1. Description: Wet Plaster finish internally 2. Substrate: Blockwork 2.1. Preparation: Recessed Joints 3. Mortar:: Ready-mised 4. Sand:: To BS EN 13139 5. Grading: : 0/2 to 0/4 (CP or MP); category 2 fines 6. Lime:: Nonhydraulic to BS EN 459-1, type CL 90S 7. Undercoats 7.1. Lime:Sand:: Ready-mixed to BS 4721 7.2. Sand: : To BS 1199, type A 7.3. Mix (cement: lime:sand): 1:1:6 7.4. Thickness (excluding dubbing out):: 12mm (first undercoat) 8. Final coat 8.1. Final Coat:: Gypsum plaster to BS EN 13279-1 8.1.1. Manufacturer: Submit proposals 8.1.2. Thickness: : 3mm 8.1.3. Finish: Smooth 8.2. Total zone allowed:: 15mm 8.3. Finish: Roughcast. 9. Accessories: Stainless steel beads as clause 630. Sample required for approval 10. Other Requirements:: Prepare 1m x 1m sample area of finish for approval before proceeding. All as per Architects specification clause M20/210					
	Walls					
C	> 300mm	2863	m2			
D	< 300mm in reveals	1298	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Sundries; Beads					
	Stainless steel or equal approved					
A	angle beads	1298	m			
B	stop beads	1298	m			
	Tile, Slab and Mosaic Finishes					
	M40/110A Tiling Internal walls - Bathroom					
	1. Description: Calibrated modular tiles to EN 12057 2. Location: Bathrooms 3. Setting out: Bath surround - 2.0 meters above floor level over three sides of bath WHB splashback - 600 x 300mm 4. Tiles: 4.1. Colour: White 4.2. Finish: Flat glazed ceramic - with glazed edge 4.3. Size: 150x150 mm 4.4. Thickness: 5.5mm 5. Background/ base: MR plasterboard (refer to K10.403) 5.1. Preparation: Mapei MAPEGUM WPS or equivalent waterproof tanking system including Mapei MAPEBAND or equivalent compatible tanking tape at internal corners, joints, floor/wall junctions, pipe penetrations etc 6. Bedding: Thin bed adhesive as clause 651 6.1. Adhesive: to EN 12004: C2TES1 Mapei Keraflex White or equivalent 7. Joint width: 2-3mm subject to tile size 8. Grout: Mapei Keracolour FF or equivalent flexible grout 8.1. Type/ classification: To EN 13888 CG2 WA 8.2. Admixture: n/a 9. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385-3 2007 Section 6.8: around perimeters, wall/ floor junctions and up to maximum 8m bay width. 10. Accessories: . Quadrant bead at all exposed edges . Proprietary seal at junction between bath and tiling. . tiled access hatches as specified in K10.430					
C	>300mm	289	m2			
	Extra over for;					
D	Neatly cutting and fitting around obstructions		Item			
	Accessories					
E	Square edged satin finish aluminium edge trims	220	m			
F	Square edged satin finish aluminium external corner trims	60	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	M40/110B Tiling Internal walls - Kitchen					
	1. Description: Calibrated modular tiles to EN 12057 2. Location: Kitchen splashback 3. Setting out: 600mm high above worktop level 4. Tiles: 6.1. Adhesive: to EN 12004: C2TES1 Mapei Keraflex Maxi S1 or equivalent C2TES1 flexible adhesive 7. Joint width: 2-3mm subject to tile size 8. Grout: Mapei Keracolour FF or equivalent flexible grout 8.1. Type/ classification: To EN 13888 CG2 WA 8.2. Admixture: n/a 9. Movement joints: Mapei MAPESIL AC or equivalent silicone to match wall grout as clause 815A, located in accordance with BS 5385-3 2007 Section 6.8: around perimeters, wall/floor junctions and up to maximum 8m bay width. 10. Accessories: . glazed edge for sills and corners oprietary seal at junction between tile and worktop 4.1. Colour: White 4.2. Finish: Flat gloss, glazed ceramic with glazed edge 4.3. Size: 150 x 150 mm 4.4. Thickness: 6mm 5. Background/ base: Tilebacker board (refer to K10.410) 5.1. Preparation: Primer to manufacturer's instructions 6. Bedding: Thin bed adhesive as clause 651					
A	>300mm	102	m2			
	Extra over for;					
B	Neatly cutting and fitting around obstructions		Item			
	Accessories					
C	Square edged satin finish aluminium edge trims	440	m			
D	Square edged satin finish aluminium external corner trims	64	m			
	Painting and Decorating					
	1. Manufacturer: Dulux D154 OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved 3. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent 4. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent. All as per Architects Specification M60/110A					
E	>300mm	1815	m2			
F	<300mm	531	m			

	Description	Qty	Unit	Rate	€	c
	1. Manufacturer: Dulux OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent 3. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film) 4. Finishing coats: Two coats Dulux Bathroom Plus. All as per Architects Specification M60/110B					
A	>300mm	206	m2			
	Access Hatches					
	1. Manufacturer: Submit proposals 2. Type: Concealed frame 2.1. Sizes: To suit tiling joints - See elevations 3. Frame: Galvanised steel, polyester powder coated 4. Panel: galvanised steel, polyester powder coated with concealed pivot 5. Lock: magnetic catch 6. Finish: Flush tiled finish. Inclusive of wall tiling per M40/110A to match wall tiling pattern. All per Architects Specification K10/430					
B	300 x 300mm	64	No			
C	Ditto as last; powder coated finish (in plasterboard wall); 1 hour fire rated	32	No			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
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Page No. West/12/13					
Page No. West/12/14					
EL (42) WALL FINISHES INTERNALLY **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
EL (43) FLOOR FINISHES					
INFORMATION					
This element of the work has been measured from Architects Drawings 146-149 inclusive, 488, 489, 490, 491-499 inclusive and Architects Specification		Note			
This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
For detailed description of workmanship and materials see specification.		Note			
The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
Notes:					
1. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes					
2. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense					
3. The Contractor is solely responsible for ensuring that the concrete floor slabs are sufficiently dried out before any floor finishes are laid.					
4. The Contractor is to include for any required protection of Acoustic Underlay and Floor Finishes prior to handover					
			To Collection €		

	Description	Qty	Unit	Rate	€	c
	WOODWORK: Boarding and Second Fixings					
	1. Quality of wood and fixing: To BS 1186-3. 1.1. Species: Contractor submittal 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: To match existing historic skirting in Convent building 4.1. Finished size: Nominal 250mm high x 19mm - to match existing 5. Finish as delivered: Paint finish 6. Fixing: screwed and pelleted or as noted on the drawings.					
A	250 x 19mm	2962	m			
	SHEET FLOORING					
	Acoustic Underlay					
	1. Description: Acoustic underlay 2. Material: Two-layer compound with rubber granules and rubber mat with PU elastomer bonding 3. Performance: To achieve TGD E requirement for Sound on separating floors - Weighted reductionin impact sound pressure level of not less than 17dB when measured in accordance with IS EN ISO 717-2 - when combined with overall floor buildup 4. Product: Damtec estra or Equivalent 5. Location : As shown on architect's floor details - To tiled areas generally 6. Background/ base: In situ concrete or levelling compound as required					
	Laid on concrete base					
B	To floors > 300mm wide	2055	m2			
	Smoothing / Levelling Underlayment Compound					
	Levelling Compound					
	Cement based, all as per Architects Drawings and Architects Specification.					
	Laid on concrete base					
C	To floors > 300mm wide	2055	m2			

	Description	Qty	Unit	Rate	€	c
	Should the substrate not achieve the required humidity level (noted under Specification clause M50/150A) prior to laying of the underlay, prepare and apply Epoxy Resin Damp Proof Membrane as per Specification Clause M50/460, inclusive of primer where necessary and laid in two coats where necessary in accordance with the Manufacturers Instructions and all as per Architects Drawings and Architects Specification					
	Laid on concrete base					
A	To floors > 300mm wide	2055	m2			
	Sheet Flooring					
	Linoleum flooring all as per Specification M50/150B; 4mm thick; Colour and pattern - to be selected by Architect; all in strict accordance with the Manufacturers Instructions and Specification Section M50					
B	>300mm	1231	m2			
	Vinyl flooring all as per Specification M50/150A; 2mm thick; Colour and pattern - to be selected by Architect; all in strict accordance with the Manufacturers Instructions and Specification Section M50					
C	>300mm	235	m2			
	Carpet					
	1. Manufacturer: Tretford OR Equivalent 1.1. Product reference: Interlifr OR Equivalent 2. Standard: to IS EN 14041 3. Location: Carpet tiles to offices and staff accomodation 4. Base: Existing concrete slab / Raised access floor on third floor 4.1. Preparation: As clause 420 5. Underlay: Bonded 6. Properties 6.1. Reaction-to-fire classification: To BS EN 13501-1, Class Bfl 6.2. Type: Carded fibres formed into a continuous corrugation and bonded to a 100% postconsumer recycled PET backing. 6.3. Composition: Pile composition is 70% undyed goat hair and 30% nylon 6.4. Classification to BS EN 1307 6.4.1. Levels of use class: 33 6.4.2. Luxury rating class: LC2 6.5. Colour/ pattern: tbc 7. Method of laying: full spread glued or installed using tack strips. All adhesive should be free of solvents and VOC. All as per Architects Specification M50/130A					
D	>300mm	470	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Sundries					
	Separation Strips					
A	Brushed stainless steel edge trim as CAT SSE or equivalent, mechanically fixed in accordance with Manufacturers instructions and per Architects Specification M50	385	m			
	FLOOR, WALL & CEILING FINISHES: Tile, Slab & Mosaic Finishes					
	Porcelain tiling as per Specification M40/110C; 150mm x 150mm x 7.5mm floor tile; Colour - to be selected by Architect; adhesive fixed onto acoustic underlay (underlay elsewhere measured); grouted joint width 2-3mm; all in strict accordance with the Architect's Finishes Schedule and Specification Section M40					
	Floors					
B	> 300mm	119	m2			
	Insulation (Air tightness)					
	Description: Spunbonded polypropylene composition with polyolefin coating with non-woven fleece fabric and acrylic and butyl self-adhesive strips, used to provide an internal airtight seal.					
C	to wall / floor junction	1176	m			
	PAINTING & DECORATING: Painting					
	1. Manufacturer: Dulux system D1213 OR Equivalent 2. Surfaces: new interior hardwood and non resinous softwood 2.1. Preparation: New wood should be ideally preservative impregnated, see BS 5268 and BS 5589. Clean to ensure free from dirt and grease etc. Remove oils from surface of wood by wiping with Dulux thinner 41 or White spirit. Abrade to remove sharp edges and any raised grain. Treat knots and resinous areas by removing resin and applying a thin coat of Dulux Knotting solution, serious troublesome knots should be cut out and replaced with sound wood. Ensure all surfaces are fully dry before proceeding. 3. Initial coats: one coat Dulux MDF primer undercoat thinned 1 to 5 as manufacturers recommendations 4. Finishing coats: Two coats Dulux Trade Diamond Eggshell Finish					
	General Surfaces					
D	girth not exceeding 300mm; skirtings	2962	m			

	Description	Qty	Unit	Rate	€	c
	Drainage					
	Shower / Floor Gully					
A	Manufacturer: Submit proposals. 1. Product reference: Submit proposals. B. Floor finish: Refer to the Design Drawings. C. Body type: Trapped gully. 1. Material: Stainless steel grade 1.4301 (AISI 304). 2. Grating/ cover: 3. Type: Flat. D. Material: 150 x 150mm grille, stainless steel grade 1.4301 (AISI 304) satin finish, screw fixed. E. Outlet: Type and direction to suit pipework. F. Accessories: S-trapped body. Clamping ring not required. Side inlet not required.include for breakout of concrete floor and making good after. Include also for neatly finishing floor finish to gulley, etc. complete. all per architect's drawings and Specification.	32	No			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/13/1					
Page No. West/13/2					
Page No. West/13/3					
Page No. West/13/4					
Page No. West/13/5					
EL (43) FLOOR FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	El (44) STAIRS FINISHES					
	INFORMATION					
	This element of the work has been measured from the Architects Drawing Nos. 406, 407, 408 and Architects Specification		Note			
	This Element and the Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
	For detailed description of workmanship and materials see specification.		Note			
	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Preparation					
A	The subfloor to be smooth, clean, free from grease and dirt and in accordance with BS 8203 or DIN 18 365. Seams and cracks in cementitious subfloors to be repaired with proprietary crackfiller, trowel or putty-knife applied. Seams and cracks in high porosity and anhydrite subfloors to be precoated with proprietary filler compound. Seams and cracks in cementitious subfloors to be repaired with proprietary fast setting repair mortar, trowel or putty-knife applied. All as per Architects Specification.	60	m2			
	Levelling Compound					
	Cement based, all as per Architects Drawings and Architects Specification.					
	Laid on concrete base					
B	To floors / landings > 300mm wide	60	m2			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Floor Coating					
	1. Description: Purpose specific 2 or 3 part coatings with integral slip resistance coefficient >12 2. Manufacturer: Submit proposals 3. Surfaces: Insitu Concrete Stairs 3.1. Preparation: ensure base is dry and free from surface contamination 4. Initial coats: elastomeric levelling compound 4.1. Number of coats: as per manufacturer's guidelines 5. Finishing coats: May include carborundum flakes OSA hand scattered to ensure compliance with Slip resistance coefficient requirements 5.1. Number of coats: as per manufacturer's guidelines. All as per Architects Specification M60/180A					
A	Landings; >300mm	60	m2			
B	Treads; 300mm wide	65	m			
C	Extra over for alternate colour to top and bottom stair treads	15	m			
D	Risers; <300mm	65	m			
E	Edge of landings; curved	7	m			
F	Ditto last; to profile of steps	20	m			
	Pedestrian Bars					
G	Provide textured vinyl flooring (dimpled, raised, etc) to match at the top and bottom of steps to comply with Part M Building Regulations. All as per manufacturers recommendations	15	m			
	Skirting					
	1. Quality of wood and fixing: To BS 1186-3. 1.1. Species: Contractor submittal 1.2. Class: CSH class 1. 2. Moisture content at time of fixing: 6-10 % 3. Preservative treatment: n/a 4. Profile: To match existing historic skirting in Convent building 4.1. Finished size: Nominal 250mm high x 19mm - to match existing 5. Finish as delivered: Paint finish 6. Fixing: screwed and pelleted or as noted on the drawings.					
H	300 x 19mm, to edge of landings	2	m			
J	Ditto last, raking, to edge of stairflight (stringer) to profile of steps	20	m			
K	300 x 19mm, to edge of landings; curved	7	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Painting					
	Background surfaces to be prepared in accordance with specification M60; apply (1) initial coat of Wood Primer; (2) undercoats; (1) finishing coats of Gloss Paint; Colour - to be selected by Architect from sample colour range; and all in strict accordance with the Architects Finishes Schedule and per Specification Section M60					
A	300 x 19mm, to edge of landings	19	m			
B	Ditto last, raking, to edge of stairflight (stringer) to profile of steps	26	m			
	Concrete Sealer					
	Prepare substrate and apply two coats, brush applied or spray applied Facael Oleo or equivalent, water proof and dust proofprotection available from Ethical Coatings Ltd , Dublin or equivalent; in accordance with the manufacturers instructions; to all exposed concrete surfaces to provide a clean , non –staining, water repellent, vapour permeable sealto the surface					
C	To soffit of landings	40	m2			
D	To soffit of raking stairflights	24	m2			
E	To soffit of stairwell roof	21	m2			
	To walls					
F	>300mm	245	m2			
G	<300mm	48	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/14/1					
Page No. West/14/2					
Page No. West/14/3					
Page No. West/14/4					
El (44) STAIRS FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (35) & (45) SUSPENDED CEILINGS & FINISHES					
	INFORMATION					
A	This element of the work has been measured from Architect's drawing nos. 125-129, 165, 166, 488, 489, 490, 491-499 & Architects Specification		Note			
B	The Architects drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
	Floor Wall & Ceiling Finishing: Suspended Ceilings					
	NOTES:					
E	1. The Tenderers attention is drawn to the fact that the rates for suspended ceilings should include for all perimeter members to columns, wall projections or the like; rates are to include for all fixings to complete the works		Note			
F	2. The Contractor is advised that the following measurement and descriptions are to be read in conjunction with the Architects Drawings and Specifications listed as tender documents within the Preliminaries Section of the Bill of Quantities		Note			
G	3. Work areas not exceeding 4.0 sq.m on plan have not been measured separately and Contractors shall make due allowance in their rates		Note			
H	4. Rates are to include for all labours in connection with the following work including accurately setting out and fitting of suspended ceilings around surface features		Note			
	Rates for suspended ceilings are to include for:					
	a) Notching and cutting around columns or the like or at the edge of the works unless measured separately					
	b) Any items necessary for the satisfactory completion of the works					
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Suspended Ceiling System					
	1. Description: Suspended ceiling system for use generally with gysum plasterboards. 2. Standard: To IS EN 13964 3. Evidence of compliance: Submit Declaration of Performance (DoP) & evidence of CE marking 4. Lining board: 12.5mm plasterboard as clause 401 generally 12.5 mm plasterboard as clause 403 for use in bathrooms and other wet /humid environments as inidicated on architectural drawings. 4.1. Finishing: Skim coat plaster as clause 680 4.1.1. Primer/ Sealer: Primer to painted areas. Type recommended by lining board manufacturer for vapour control in in bathrooms. 4.2. Accessories: Beads/ stops as clause 692 5. Suspension system: As recommended by lining manufacturer to complete the ceiling system and achieve specified performance. 5.1. Grid type: Double with primary channel. 5.2. Hangers: Type recommended by board manufacturer 5.2.1. Length: To give ceiling soffit height above finished floor level of 2700 mm - unless otherwise specifed on architectural drawings. 6. Access units: Required as clause 431 - As indicated on architectural drawings 7. Integrated services fittings: Refer to Mechanical & Electrical Engineers drawings and specifications 8. Other requirements: 9. System performance 9.1. Standard: To IS EN 13964 9.2. Structural: The ceiling system must safely support all anticipated loads including services fittings. 9.2.1. Uniformly distributed load (maximum): 0.6 kN/m2 9.2.2. Additional loads/ pressures: luminaires and other M+E fittings-refer to M+E drawings and data sheets to be provided by specialist contractors 9.2.3. Deflection of grid between points of support (maximum): 0.0025 x span. 9.3. Fire performance 9.3.1. Reaction to fire: Class B - s3-d2 9.4. Airborne sound insulation (complete floor and ceiling assembly) 9.4.1. Weighted sound reduction index, Rw (minimum), to BS EN ISO 717-1: 50 dB. All in accordance with Architects Specification K10/215					
A	Depth of suspension <150mm	2410	m2			
B	Extra over last for moisture resistance in accordance with Architects Specification K10/403	159	m2			
	Form bulkhead with one layer 12.5mm thick plasterboard fixed to and including framework, any additional required softwood framwork. Include for all joints scrimmed and finished with 3mm skim coat of finishing plaster; complete. All as per Architects Drawings 496 & 497 and Specification; Size;					
C	360mm deep x 600mm high (over kitchen wall units)	156	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Access Hatches					
	1. Manufacturer: Submit proposals 2. Type: Concealed circular frame with beaded frame 2.1. Sizes: See ceiling plans - max diameter 600mm 3. Frame: Galvanised steel, polyster powder coated 4. Panel: Galvanised steel, polyster powder coated., colour TBC 5. Lock: Unitwist door hanging mechanism with restraining safety chain. Inclusive of all associated softwood timber support framework. All as per Architects Specification					
A	Circa 575mm diameter	32	No			
	1. Manufacturer: Submit proposals 2. Type: As recommended by lining manufacturer in clause 220 to complete the ceiling system and achieve specified performance 2.1. Sizes: See ceiling plans 3. Frame: Galvanised steel 4. Panel: galvanised steel for tiling with concealed pivot 5. Lock: budget lock					
B	400 x 400mm	32	No			
	Painting and Decorating					
	1. Manufacturer: Dulux D154 OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved 3. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent 4. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalent. All as per Architects Specification M60/110A					
C	>300mm	2251	m2			
D	>300mm (bulkheads)	94	m2			
	1. Manufacturer: Dulux OR Equivalent 2. Surfaces: Plastered blockwork or plasterboard 2.1. Preparation: Clean down all surfaces. Seal with Dulux Plaster Sealer or equivalent 3. Initial coats: One thinned Dulux Bathroom Plus or equivalent (steam and moisture resistant soft sheen emulsion with 5 year mould resistant paint film) 4. Finishing coats: Two coats Dulux Bathroom Plus. All as per Architects Specification M60/110B					
E	>300mm	159	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	External Finishes					
	External Exposed Concrete Surfaces - apply one or two coats, brush applied clear Lotexan or equivalent or Facael Oleo or equivalent, in accordance with the manufacturer's instructions, to all exposed vertical surfaces and to provide a clean, non-staining water repellent yet vapour permeable seal to the surface .The surface sealer must be tested on a trial panel and be approved by the ER prior to use.					
A	>300mm to soffits of concrete slabs	694	m2			
B	>300mm; sides of columns	308	m2			
C	300mm deep to edge of slab / sides of downstand beams	390	m			
	Insulation (Air tightness)					
	Description: Spunbonded polypropylene composition with polyolefin coating with non-woven fleece fabric and acrylic and butyl self-adhesive strips, used to provide an internal airtight seal.					
D	to wall / soffit junction	1176	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/15/1					
Page No. West/15/2					
Page No. West/15/3					
Page No. West/15/4					
EL (35) & (45) SUSPENDED CEILINGS & FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (47) ROOF FINISHES					
	GENERAL INFORMATION					
	For further details refer to Architects drawings and specifications.		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the drawings, site and consulted all available information before submitting his tender.		Note			
	ROOFING, CLADDING & WATERPROOFING: Mastic Asphalt, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings					
	All work is to be carried out in accordance with the Single Ply Roofing Association Design Guide, in strict accordance with the manufacturer`s recommendations and where relevant BS 8217:2005 Code of Practice for Built-up Felt Roofing and BS 6229:2003 Code of Practice for Flat Roofs with Continuously Supported Coverings		Note			
	Roof coverings					
	Single layer polymeric sheet warm deck roof covering; SUBSTRATE: concrete deck laid level (measured elsewhere). ROOF COVERING SYSTEM: Bauder K5K or equivalent 5mm thick, 250g/m2 polyester reinforced elastomeric bitumen torch applied capping sheet ; COLOUR; Charcoal Grey; UNDERLAYER: Bauder G4E or equivalent 4mm thick 200g/m2 glass fibre reinforced elastomeric torch applied bitumen underlayer. INSULATION: Thin-R FR/BGM Unilin or equivalent PIR insulation board 140mm thick to achieve maximum thermal transmittance value of 0.16W/m2K. AIR AND VAPOUR CONTROL LAYER: Bauder TEC KSD FBS or equivalen 2.5mm thick elastomer bitumen air and vapour control layer with self adhesive membrane; all in accordance with the Works Requirements and in particular Architects drawing nr. 129 and specification clause J41/110					
	Horizontal					
A	> 300mm wide	545	m2			
	Vertical					
B	> 300mm wide	171	m2			
	Girth 450 - 600mm					
C	gutter lining	20	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extra over on warm deck roof coverings for					
A	Tapered PIR/PUR rigid urethane insulation board, to achieve maximum thermal transmittance value of 0.15W/m2K; all in accordance with the Works Requirtements and in particular Architects drawing no. 129 (Lift Room Roof)	17	m2			
	Extra over on warm deck roof coverings for					
B	stone ballast; 5 - 30mm rounded river washed pebbles; white/silver grey colour; depth 50mm thick; all in accordance with the Works Requirtements and in particular Architects drawing no.124 and specification clause J41/460	110	m2			
	Skirtings					
	Composite Item; 30mm PIR insulation dressed up wall forming parapet and faced with 18mm WBP ply fixed into parapet wall behind, ply lined and waterproof membrane taken up and over top and sealed to wall including vapour control layer dressed up face and sealed to parapet wall, including all DPC and accessories					
	Girth 450 - 600mm					
C	inside face of parapet walls	206	m			
	Girth 450 - 600mm					
D	inside face of parapet walls; curved	9	m			
	Collars around pipes, standards and the like					
	Pipes					
E	< or = 110mm diameter x 250mm high collar	4	nr			
	Fall Arrest Posts					
F	generally	12	nr			
	PV Panel Support Frames					
G	as propose by Contractor to meet th performance specification	1	item			
	Lining to					
	Outlets					
H	generally	4	nr			

	Description	Qty	Unit	Rate	€	c
	Roof coverings					
	Single layer polymeric sheet cold deck roof covering; SUBSTRATE: concrete deck laid level (measured elsewhere). PREPARATION; Preparation of substrate as per Specification clause J41/610; ROOF COVERING SYSTEM: Bauder K5K or equivalent 5mm thick, 250g/m2 polyester reinforced elastomeric bitumen torch applied capping sheet ; COLOUR; Charcoal Grey; UNDERLAYER: Bauder G4E or equivalent 4mm thick 200g/m2 glass fibre reinforced elastomeric torch applied bitumen underlayer. AIR AND VAPOUR CONTROL LAYER: Bauder TEC KSD FBS or equivalen 2.5mm thick elastomer bitumen air and vapour control layer with self adhesive membrane; all in accordance with the Works Requirements and in particular Architects drawing nr. 129 and specification clause J41/130					
	Horizontal					
A	> 300mm wide	205	m2			
	Horizontal; curved (staircore roof)					
B	> 300mm wide	19	m2			
	Vertical					
C	> 300mm wide	27	m2			
	Vertical					
D	> 300mm wide; curved	27	m2			
	Girth 450 - 600mm					
E	gutter lining	20	m			
	Extra over on warm deck roof coverings for					
F	Tapered PIR/PUR rigid urethane insulation board, to achieve maximum thermal transmittance value of 0.15W/ m2K; all in accordance with the Works Requirtements and in particular Architects drawing no. 124	9	m2			
	Extra on roof coverings for					
G	stone ballast; 5 - 30mm rounded river washed pebbles; white/silver grey colour; depth 50mm thick; all in accordance with the Works Requirtements and in particular Architects drawing no.124 and specification clause J41/460	88	m2			

	Description	Qty	Unit	Rate	€	c
	Skirtings					
	Composite Item; 30mm PIR insulation dressed up wall forming parapet and faced with 18mm WBP ply fixed into parapet wall behind, ply lined and waterproof membrane taken up and over top and sealed to wall including vapour control layer dressed up face and sealed to parapet wall, including all DPC and accessories					
	Girth 450 - 600mm					
A	inside face of parapet walls	72	m			
	Collars around pipes, standards and the like					
	Pipes					
B	< or = 110mm diameter x 250mm high collar	4	nr			
	Fall Arrest Posts					
C	generally	12	nr			
	PV Panel Support Frames					
D	as propose by Contractor to meet th performance specification	1	item			
	Lining to					
	Outlets					
E	generally	4	nr			

	Description	Qty	Unit	Rate	€	c
	Green and Biodiverse Roofs					
	Intensive Green Roof; PROTECTION LAYER: Bauder BSM600 or equivalent 4mm thick protection fleece. Seperation Layer: Bauder Green PE02 or equivalent seperation layer ; SLIP LAYER; Bauder Green PE02 or equivalent slip layer; DRAINAGE LAYER: Bauder Green DSE60 or equivalent 60mm thick drainage board. FILTER LAYER : Bauder Green FV 125 or equivalent fllter fleece. GROWING MEDIUM; Bauder Green SUB-IM or equivalen intensive subtrate. Depth to be as per manufacturersguidelines; IRRIGATION; Bauder Green SUB-MD mineral drain aggregate; Depth to be as per manufacturers guidelines; ACCESSORIES; Chamber height adaptor, Inspection Chamber, Retention Angles, Project specific drip line irrigation to be as per manufacturers guidelines systemall in accordance with the Works Requirements and in particular Architects drawing nr.129 and specification clause Q37/110					
	Horizontal					
A	> 300mm wide	370	m2			

	Description	Qty	Unit	Rate	€	c
	ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Metal Coverings					
	Aluminium Flashings					
	1. Manufacturer: Submit proposals 2. Material: BS EN 515, BS EN 573-3, BS EN 485-1 and BS EN 485-2. 3. Finish: Polyester powder-coated in West Block and to match finish of approved window systems 4. Material thickness (minimum): 3 mm. 5. Dimensions: As shown on archtectural drawings. 6. Fixings: SS self drilling screws, rivets for support frame. Clip system with no visible fixings to be used on coping 7. Top surface colour: RAL colour, anodic paint (or anodised to selected colour for East Block) 8. Brackets: "Clip-fix" folded aluminium brackets. 9. Jointing: Expanding seal tape. 10. Accessories: Factory fabricated stop-ends. Internal and external corners. 10.1. Substrate : Calcium Silicate Fibre Reinforced Board Manufacturer: Promat or equivalent Product reference: Supalux/Promatect-250 or equivalent Thickness: 15mm Material: Calcium silicate - exterior grade, inert and suitable for use in external walls/roofs. All to contractor's design. - End to end joints: butt jointed with epdm sealing strip under; external and internal corners should be welded and all welds ground down to provide a smooth and integral 3 dimensional profile. all in accordance with the Works Requirements and in particular Architects drawing no. 335 and specification clause F30/780; damp proof course as per specification clause F30/310A					
	Parapet Cappings					
A	450 - 600mm	168	m			
	Parapet Cappings					
B	450 - 600mm; curved	9	m			
	Extra over on parapet flashings for					
C	bends	8	nr			
	DRAINAGE: Above Ground					
	Downpipes					
D	Downpipes; PVC-U pipework to EN1329-1 Kitemark Certified; ; colour black; fixed with PVC-U clips; all as per Architects Specification Clause R10 425					
E	downpipes; 110mm diameter	208	m			

	Description	Qty	Unit	Rate	€	c
	Insulation to internal downpipes					
	Insulation to PVC-U pipeworkMineral wool insulation; Thermal conductivity maximum 0.045W/mK; reaction to fire to EN1329-1 Class a1 or better; all as per Architects Specification Clause R10 450					
A	to downpipes; 110mm diameter	208	m			
	Proprietary Rainwater Outlets					
	Proprietary Rainwater Outlets; 90 degree spigot outlet; complete with domed grating and clamping collar; all in accordance with the Works Requirements and in particular Architects specification clause R10 365A					
	110mm diameter outlet pipe					
B	generally	16	nr			
	Proprietary Rainwater Outlets; bitumen parapet tell tale overflow; 650mm long (to achieve 150mm clearance from outer face);; minimum 330 x 330mm flange; all in accordance with the Works Requirements and in particular Architects specification clause R10 365E					
	110mm diameter outlet pipe					
C	generally	5	nr			
	Paving and Decking System; Roofs					
	Decking System					
	Decking System to roofs; Incremental height adjustible steel pedestal support system to BS8579; height range 50 - 150mm high; pedestal diameter 205mm; compressive strength 25kN; complete with slope correctors and rubber acoustic shims; manufactuer submit proposals. all in accordance with the Works Requirements and in particular Architects specification clause J41/467					
	Pedestals					
D	generally	65	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Paving Slabs					
	Precast concrete paving slabs set on pedestal decking system;400 x 400 x 60mm thick precast paving slabs, natural grey finish, 5mm thick joints to BS7533-4:2006. 30mm thick stone chippings; all in accordance with the Works Requirements and in particular Architects specification clause J41/470					
A	generally	65	m2			
	Paving and Decking System; Balconies					
	Built-up reinforced bitumen membrane cold deck roof covering					
	Built-up reinforced bitumen membrane cold deck roof covering to concrete deck laid to falls. Preparation: As clause 610. Waterproof covering. Underlayer: Bauder G4E, or Equivalent , 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or Equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced all in accordance with the manufacturers instructions and Architect's Specification J41/130 and Drawings					
	Tanking System to External Balconies / walkways					
B	generally	784	m2			
C	Upstands to Perimeter include for Angle fillets, as clause J41/335. Overall < 300mm	540	m			
D	Perimeter upstand trims and termination bars. Lengths (maximum): 3m. Material: 5mm mill finished aluminium all in accordance with the manufacturers instructions and Architect's Specification J41/345 and Drawings	540	m			
	Kerb to Balcony; PIR Insulation					
E	200 x 275mm	260	m			
F	Roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in concrete slab inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	25	no			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Decking System					
	Decking System to roofs; Incremental height adjustible steel pedestal support system to BS8579; height range 50 - 150mm high; pedestal diameter 205mm; compressive strength 25kN; complete with slope correctors and rubber acoustic shims; manufactuer submit proposals. all in accordance with the Works Requirements and in particular Architects specification clause J41/467					
	Pedestals					
A	generally	784	m2			
	Paving Slabs					
	Precast concrete paving slabs set on pedestal decking system;400 x 400 x 60mm thick precast paving slabs, natural grey finish, 5mm thick joints to BS7533-4:2006. 30mm thick stone chippings; all in accordance with the Works Requirements and in particular Architects specification clause J41/470					
B	generally	784	m2			
	Electronic Roof Integrity Test to all Roof Areas					
C	Electronic roof integrity test; all as per Architect's Drawings and Specification Section J41/920		Item			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
D	Testing		Item			
E	Surveys		Item			
F	Samples		Item			
G	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/16/1					
Page No. West/16/2					
Page No. West/16/3					
Page No. West/16/4					
Page No. West/16/5					
Page No. West/16/6					
Page No. West/16/7					
Page No. West/16/8					
Page No. West/16/9					
EL (47) ROOF FINISHES **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (59) MECHANICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Mechanical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Mechanical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATION					
	Deviation from ARM 4					
A	The Mechanical Installation has been measured in accordance with the Agreed Rules of Measurement ARM 4 Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Mechanical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.		Item			
	DRAINAGE INSTALLATION					
	Distribution system					
	Pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
B	Waste pipework; polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; sizes as per drawings		Item			
C	32mm diameter		Item			
D	40mm diameter		Item			
E	110mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories;					
A	WC; 110mm waste to builders floor socket	32	nr			
B	WHB; 32mm trapped waste to builders floor socket	32	nr			
C	Sink; baths, showers, appliances; 40mm trapped waste to builders floor socket	88	nr			
	Insulation					
	Insulation to pipework and accessories; 25mm thick Class O insulation, heavy duty no noise insulation to SVPs;					
D	32mm diameter		Item			
E	40mm diameter		Item			
F	110mm diameter		Item			
	General					
	General; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
G	drainage installation		Item			
	Operating and maintenance manuals for					
H	drainage installation		Item			
	Working drawings for					
J	drainage installation		Item			
	Co-ordination drawings for					
K	drainage installation		Item			
	As built drawings for					
L	drainage installation		Item			
	Identification plates, labels and the like for					
M	drainage installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
A	drainage installation		Item			
	Fire stopping and other associated fire protection work for					
B	drainage installation		Item			
	SOIL VENT STACK INSTALLATION					
	Distribution system					
	Internal Soil Vent Stack (Pipework above Ground); polyethylene soil, waste and overflow pipework above ground; including bottle traps, access points, connectors, safety discharges; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
C	110mm diameter pipework (grey or black to architects specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	108	m			
D	Extra over ditto, wrapping Soil Vent Pipe in acoustic insulation, all to the satisfaction of the Architect.	108	m			
E	110mm daimeter offset bends to last (grey or black to architects specification)	16	nr			
F	Roof cowls to suite 110mm vent pipes	8	nr			
G	Allow for airtight connect to between 110mm dia. vent pipe end to Vent & Cowl (elsewhere measured). Include for all necessary seals etc complete.	8	nr			
H	110mm 92.5 deg bend double socket (grey or black to architects specification)	16	nr			
J	110mm 92.5 deg branch double socket (grey or black to architects specification)	16	nr			
K	40mm push-fit boss adaptors. (grey or black to architects specification)	60	nr			
L	40mm diameter pipework (grey or black to architects later specification) include for pipe clips fixed to masonry / stud wall at 900 c/c with stainless steel screws with plugs to manufacturers recommendations	125	m			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	40mm 92.5 deg bend double socket with solvent joints (grey or black to architects specification)	32	nr			
	General					
	General; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M1, M2, M3, M4 & M5					
	Testing and commissioning					
B	soil vent stack installation		Item			
	Operating and maintenance manuals for					
C	soil vent stack installation		Item			
	Working drawings for					
D	soil vent stack installation		Item			
	Co-ordination drawings for					
E	soil vent stack installation		Item			
	As built drawings for					
F	soil vent stack installation		Item			
	Identification plates, labels and the like for					
G	soil vent stack installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
H	soil vent stack installation		Item			
	Fire stopping and other associated fire protection work for					
J	soil vent stack installation		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	WATER SERVICES INSTALLATION					
	Primary Equipment					
	Primary Equipment; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	Primary equipment;					
	West Block					
A	Break Tank; 5,000 litre break tank to Format 30; fully insulated; overall tank size 2650mm x 2150mm x 1000mm	1	nr			
	West Block					
	Valves; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
B	Thermostatic Mixing Valve; WHB	32	nr			
C	Thermostatic Mixing Valve; sink	32	nr			
D	Thermostatic Mixing Valve; bath	32	nr			
E	ballofix valve; WHB	128	nr			
F	ballofix valve; sink	96	nr			
G	ballofix valve; bath	96	nr			
H	ballofix valve; WC	32	nr			
J	blending valve; WHB	32	nr			
K	blending valve; sink	32	nr			
L	blending valve; bath	64	nr			
	Distribution system					
	Pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	Convent					
M	MWS - Mains Water system pipework; 15mm diameter		Item			
N	MWS - Mains Water system pipework; 22mm diameter		Item			
P	MWS - Mains Water system pipework; 25mm diameter		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	CWS - Cold Water system pipework; 15mm diameter		Item			
B	CWS - Cold Water system pipework; 22mm diameter		Item			
C	HWS - Hot Water system pipework; 15mm diameter		Item			
D	HWS - Hot Water system pipework; 22mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	West Block					
E	MWS - Mains Water system pipework; 15mm diameter		Item			
F	MWS - Mains Water system pipework; 22mm diameter		Item			
G	MWS - Mains Water system pipework; 25mm diameter		Item			
H	CWS - Cold Water system pipework; 15mm diameter		Item			
J	CWS - Cold Water system pipework; 22mm diameter		Item			
K	HWS - Hot Water system pipework; 15mm diameter		Item			
L	HWS - Hot Water system pipework; 22mm diameter		Item			
	General					
	General; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	Testing and commissioning					
M	water services installation		Item			
	Operating and maintenance manuals for					
N	water services installation		Item			
	Working drawings for					
P	water services installation		Item			
	Co-ordination drawings for					
Q	water services installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	As built drawings for					
A	water services installation		Item			
	Identification plates, labels and the like for					
B	water services installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
C	water services installation		Item			
	Fire stopping and other associated fire protection work for					
D	water services installation		Item			
	SPACE HEATING INSTALLATION					
	Primary Equipment					
	Primary equipment; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M10, M11, M12, M13, M18, M19 & M20					
E	Air to Water Outdoor Condenser; low temperature split air source heat pump unit; Daikan or equal and approved Ref ERGA-04DV - 4.3Kw heating; R-32; single phase unit; overall size 884mm wide x 388mm deep x 740mm high; include for 2 No. anti Vibration blocks under each unit and drip tray; located on roof of building	32	nr			
F	HP Indoor Unit; Daikan or equal and approved Altherma 3 4Kw/180 Litrel HP indoor unit; integrated floor standing unit; overall size 595mm wide x 625mm deep x 1650mm high	24	nr			
G	HP Indoor Unit; Daikan or equal and approved Altherma 3 4Kw/23 litrel HP indoor unit; integrated floor standing unit; overall size 595mm wide x 625mm deep x 1650mm high	8	nr			
H	Aquabox Versatile Series, Cold Water Storage Tank; 340litre capacity; complete with submersible multi stage pump; tank to be fully insulated and sealed; overall size 565mm x 605mm x 1850mm	32	nr			
J	Expansion Vessel; all as per Services Engineers specification	1	nr			
K	Expansion Vessel; all as per Services Engineers specification	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Primary Equipment					
	Primary equipment; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M10, M11, M12, M13, M18, M19 & M20					
	West Block					
	Radiators/Towel Warmers					
	Ground Floor; Apartment No.1					
A	Radiator [R1]; Radiator Type V20; double vertical panel radiator; overall size 1400 x 433mm; Delta T target 30 degrees; Heating Output target 0.563Kw	1	nr			
B	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
C	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
D	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
E	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
F	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
G	Radiator [R7]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
	Ground Floor; Apartment No.2					
H	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
J	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
K	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
B	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
	Ground Floor; Apartment No.3					
C	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
D	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
E	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
F	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
G	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
H	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Ground Floor; Apartment No.4					
J	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
K	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
L	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
M	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
B	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Ground Floor; Apartment No.5					
C	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
D	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
E	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
F	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
G	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
	Ground Floor; Apartment No.6					
H	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
J	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
K	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
L	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
M	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Ground Floor; Apartment No.7					
B	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
C	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
D	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
E	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
F	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
G	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Ground Floor; Apartment No.8					
H	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 900mm; Delta T target 30 degrees; Heating Output target 0.603Kw	1	nr			
J	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
K	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
L	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
M	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
B	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
C	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
	First Floor; Apartment No.1					
D	Radiator [R1]; Radiator Type V20; double vertical panel radiator; overall size 1400 x 433mm; Delta T target 30 degrees; Heating Output target 0.563Kw	1	nr			
E	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
F	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
G	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
H	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
J	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
K	Radiator [R7]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
	First Floor; Apartment No.2					
L	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
M	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
B	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
C	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
	First Floor; Apartment No.3					
D	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
E	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
F	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
G	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
H	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
J	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	First Floor; Apartment No.4					
K	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
L	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
M	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
B	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
C	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	First Floor; Apartment No.5					
D	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
E	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
F	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
G	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
H	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
	First Floor; Apartment No.6					
J	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
K	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
L	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
M	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
B	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	First Floor; Apartment No.7					
C	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
D	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
E	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
F	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
G	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
H	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	First Floor; Apartment No.8					
J	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 900mm; Delta T target 30 degrees; Heating Output target 0.603Kw	1	nr			
K	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
L	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
M	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
B	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
C	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
D	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
	Second Floor; Apartment No.1					
E	Radiator [R1]; Radiator Type V20; double vertical panel radiator; overall size 1400 x 433mm; Delta T target 30 degrees; Heating Output target 0.563Kw	1	nr			
F	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
G	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
H	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
J	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
K	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
L	Radiator [R7]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
	Second Floor; Apartment No.2					
M	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
B	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
C	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
D	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
	Second Floor; Apartment No.3					
E	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
F	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
G	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
H	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
J	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
K	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Second Floor; Apartment No.4					
L	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
M	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
B	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
C	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
D	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Secnd Floor; Apartment No.5					
E	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
F	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
G	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
H	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
J	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
	Second Floor; Apartment No.6					
K	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
L	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
M	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
B	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
C	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Second Floor; Apartment No.7					
D	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
E	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
F	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
G	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
H	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
J	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Second Floor; Apartment No.8					
K	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 900mm; Delta T target 30 degrees; Heating Output target 0.603Kw	1	nr			
L	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
M	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
B	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
C	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
D	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
E	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
	Third Floor; Apartment No.1					
F	Radiator [R1]; Radiator Type V20; double vertical panel radiator; overall size 1400 x 433mm; Delta T target 30 degrees; Heating Output target 0.563Kw	1	nr			
G	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
H	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
J	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
K	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
L	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
M	Radiator [R7]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0..952Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Third Floor; Apartment No.2					
A	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
B	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
C	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
D	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
E	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1600 x 433mm; Delta T target 30 degrees; Heating Output target 0.631Kw	1	nr			
	Third Floor; Apartment No.3					
F	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
G	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
H	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
J	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
K	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
L	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Third Floor; Apartment No.4					
M	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
B	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
C	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
D	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
E	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Third Floor; Apartment No.5					
F	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
G	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
H	Radiator [R3]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
J	Radiator [R4]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
K	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 1700 x 433mm; Delta T target 30 degrees; Heating Output target 0.665Kw	1	nr			
	Third Floor; Apartment No.6					
L	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
M	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
B	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
C	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
D	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Third Floor; Apartment No.7					
E	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
F	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.768Kw	1	nr			
G	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.640Kw	1	nr			
H	Radiator [R4]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
J	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
K	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
	Third Floor; Apartment No.8					
L	Radiator [R1]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 900mm; Delta T target 30 degrees; Heating Output target 0.603Kw	1	nr			
M	Radiator [R2]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 600mm; Delta T target 30 degrees; Heating Output target 0.402Kw	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Radiator [R3]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
B	Radiator [R4]; Radiator Type H21; double panel, one convector fin radiator; overall size 505 x 500mm; Delta T target 30 degrees; Heating Output target 0.335Kw	1	nr			
C	Radiator [R5]; Radiator Type Edge; Towel warmer; overall size 1200 x 500mm; Delta T target 30 degrees; Heating Output target 0.337Kw	1	nr			
D	Radiator [R5]; Radiator Type V20; double vertical panel radiator; overall size 2300 x 433mm; Delta T target 30 degrees; Heating Output target 0.897Kw	1	nr			
E	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
F	Radiator [R6]; Radiator Type V20; double vertical panel radiator; overall size 2500 x 433mm; Delta T target 30 degrees; Heating Output target 0.952Kw	1	nr			
	Accessories associated with primary equipment					
	Controls; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M10, M11, M12, M13, M18, M19 & M20					
	West Block					
G	Controls; Meter	32	nr			
H	Controls; Water Inlet Safety Group	32	nr			
J	Controls; Temperature indicator; BMS field mounted instrument	14	nr			
K	Controls; Temperature transmitter; BMS control instrument	17	nr			
L	Controls; Temperature controller valve; BMS control instrument	14	nr			
M	Controls; Flow switch; BMS control instrument	4	nr			
N	Controls; Differental pressure switch; BMS control instrument	8	nr			
P	Controls; In line flow measuring device complete with transmitter; BMS control instrument	1	nr			
Q	Controls; Flow meter; BMS control instrument	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Controls; Pressure independent control valve; BMS control instrument	24	nr			
B	Controls; Pressure transmitter; BMS control instrument	3	nr			
C	Controls; Motor Valve; BMS control instrument	3	nr			
	Valves; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M10, M11, M12, M13, M18, M19 & M20					
	West Block					
D	Pressure relief valves	227	nr			
E	Three way Valve	14	nr			
F	Check valve	16	nr			
G	Isolating Valve	2	nr			
H	Isolating Valve (Normally Closed)	19	nr			
J	Butterfly valve	2	nr			
K	Pressure release safety valve	1	nr			
L	Non return check valve	1	nr			
M	Thermostatic Radiator Valve	18	nr			
N	Float operated valve	1	nr			
P	Float valve and ball cock	1	nr			
Q	Fixed orifice double regulating valve set	4	nr			
R	Air vent	5	nr			
S	Automatic air vent	24	nr			
T	LS Valve	2	nr			
U	Vent valve	5	nr			
V	Pressure independent control valve	20	nr			
W	Pressure independent balancing control valve	4	nr			
X	Measuring Station fixed orifice	4	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Other Items; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings					
	West Block					
A	'Y' type strainer	39	nr			
	Accessories associated with terminal equipment and fittings					
	Valves; all in accordance with the Mechanical Services Engineer's Specification, Equipment Schedules, Engineers's Scope of Works Documents and Drawings					
	West Block					
B	Thermostatic radiator valve	18	nr			
C	Lock Shield Valve	12	nr			
D	Thermostatic radiator valve	2	nr			
	Distribution system					
	Pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	West Block					
E	HWS - Hot Water Supply pipework; 15mm diameter		Item			
F	HWS - Hot Water Supply pipework; 22mm diameter		Item			
G	CWS - Cold Water Supply pipework; 15mm diameter		Item			
H	CWS - Cold Water Supply pipework; 22mm diameter		Item			
J	Refrigerent Pipework; 15mm diameter		Item			
	Insulation					
	Insulation to pipework; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M6, M7, M8 & M9					
	West Block					
K	HWS - Hot Water Supply pipework; 15mm diameter		Item			
L	HWS - Hot Water Supply pipework; 22mm diameter		Item			
M	CWS - Cold Water Supply pipework; 15mm diameter		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	CWS - Cold Water Supply pipework; 22mm diameter		Item			
B	Refrigerent Pipework; 15mm diameter		Item			
	General					
	General; all as per Services Engineers Mechanical Specification and Services Engineers Drawings M10, M11, M12, M13, M18, M19 & M20					
	Testing and commissioning					
C	heating installation		Item			
	Operating and maintenance manuals for					
D	heating installation		Item			
	Working drawings for					
E	heating installation		Item			
	Co-ordination drawings for					
F	heating installation		Item			
	As built drawings for					
G	heating installation		Item			
	Identification plates, labels and the like for					
H	heating installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
J	heating installation		Item			
	Fire stopping and other associated fire protection work for					
K	heating installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	VENTILATION INSTALLATION					
	Primary Equipment					
	Primary equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings M14, M15, M16 & M17					
	West Block					
A	Extract Ventilation Unit; Demand controlled mechanical extract ventilation unit by Areco or equal and approved; Type V4A -- 3 room - (210 M3/hr / V2A - 2 room - (80 M3/hr); premium single phase fan; acoistic whole house fan installation; Location - Ground Floor (in each apartment)	8	nr			
B	Extract Ventilation Unit; Demand controlled mechanical extract ventilation unit by Areco or equal and approved; Type V4A -- 3 room - (210 M3/hr / V2A - 2 room - (80 M3/hr); premium single phase fan; acoistic whole house fan installation; Location - First Floor (in each apartment)	8	nr			
C	Extract Ventilation Unit; Demand controlled mechanical extract ventilation unit by Areco or equal and approved; Type V4A -- 3 room - (210 M3/hr / V2A - 2 room - (80 M3/hr); premium single phase fan; acoistic whole house fan installation; Location - Second Floor (in each apartment)	8	nr			
D	Extract Ventilation Unit; Demand controlled mechanical extract ventilation unit by Areco or equal and approved; Type V4A -- 3 room - (210 M3/hr / V2A - 2 room - (80 M3/hr); premium single phase fan; acoistic whole house fan installation; Location - Third Floor (in each apartment)	8	nr			
E	Kitchen Extractor Hood complete with Extractor Fan; Fan to provide 430M3/hr, 3 speed; complete with light and filter; Location - Ground Floor (in each apartment)	8	nr			
F	Kitchen Extractor Hood complete with Extractor Fan; Fan to provide 430M3/hr, 3 speed; complete with light and filter; Location - First Floor (in each apartment)	8	nr			
G	Kitchen Extractor Hood complete with Extractor Fan; Fan to provide 430M3/hr, 3 speed; complete with light and filter; Location - Second Floor (in each apartment)	8	nr			
H	Kitchen Extractor Hood complete with Extractor Fan; Fan to provide 430M3/hr, 3 speed; complete with light and filter; Location - Third (in each apartment)	8	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Terminal equipment and fittings; all as					
	Extract Grilles					
	West Block					
A	Extract Ceiling Grille; Aereco or equal and approved multifunctional extract ceiling grille Ref BXC 275; humidity control and presence PIR detection plus boost delay powered by 12V AC connection from fan unit	32	nr			
B	Extract Ceiling Grille; Aereco or equal and approved extract ceiling grille Ref BXC 273; humidity control; powered by 12V AC connection from fan unit	64	nr			
C	Wall Grille; complete with backdraught shutter	32	nr			
	Wall Louvres					
	West Block					
D	Wall Louvre; 150 x 150mm	32	nr			
	Window Louvres					
	West Block					
E	Acoustic window integrated humidity sensitive air inlet	32	nr			
	Distribution system					
	Ductwork; all as per Services Engineers Electrical Specification and Services Engineers Drawings M14, M15, M16 & M17					
	West Block					
F	Extract air system ductwork; sizes of ducting as per drawings		Item			
	Insulation					
	Insulation; all as per Services Engineers Electrical Specification and Services Engineers Drawings M14, M15, M16 & M17					
	Stroke Rehabilitation Unit					
G	Insulation to supply air system ductwork		Item			
H	Generally		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General					
	General; all in					
	Testing and commissioning					
A	Ventilation Installation		Item			
	Operating and maintenance manuals for					
B	Ventilation Installation		Item			
	Working drawings for					
C	Ventilation Installation		Item			
	Co-ordination drawings for					
D	Ventilation Installation		Item			
	As built drawings for					
E	Ventilation Installation		Item			
	Identification plates, labels and the like for					
F	Ventilation Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Ventilation Installation		Item			
	Fire stopping and other associated fire protection work for					
H	Ventilation Installation		Item			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/17/1					
Page No. West/17/2					
Page No. West/17/3					
Page No. West/17/4					
Page No. West/17/5					
Page No. West/17/6					
Page No. West/17/7					
Page No. West/17/8					
Page No. West/17/9					
Page No. West/17/10					
Page No. West/17/11					
Page No. West/17/12					
Page No. West/17/13					
Page No. West/17/14					
Page No. West/17/15					
Page No. West/17/16					
Page No. West/17/17					
Page No. West/17/18					
Page No. West/17/19					
Page No. West/17/20					
Page No. West/17/21					
Page No. West/17/22					
Page No. West/17/23					
Page No. West/17/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/17/25					
Page No. West/17/26					
Page No. West/17/27					
Page No. West/17/28					
Page No. West/17/29					
Page No. West/17/30					
Page No. West/17/31					
EL (59) MECHANICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (69) ELECTRICAL INSTALLATION					
A	ELECTRICAL INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Services Engineers Electrical Specification and Drawings as per the Services Engineers Document Issue and Register Sheet for Electrical Installation		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL INSTALLATION					
	Deviation from ARM 4					
B	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement ARM4 Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Electrical Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Item			
	GENERAL SERVICES, SMALL POWER & COMMUNICATIONS SYSTEM INSTALLATIONS					
	System					
C	General services, small power & communications services systems to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification/Scope of Work document					
	West Block					
A	Mains Distribution Board; Locations - Ground Floor; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16	1	nr			
B	Sub Mains Distribution Board; Locations - Each Apartment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16	32	nr			
C	Comms cabinet; Location; Third Floor; complete with Main distribution facility, door access gateway, Comms Junction box; 2 No. 20A fused spur; Network Video Recorder	1	nr			
D	Primary Distribution Cabinet; Location; Ground Floor	1	nr			
	Fittings; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4 & E5					
	West Block					
E	Twin switched socket outlet; complete with double pole switching	348	nr			
F	Twin switched socket outlet; complete with double pole switching; above counter	88	nr			
G	Future Wifi Box location; telephone and data outlets to be wired back to this location (with double socket and data point; installed 1.0m above F.F,L	32	nr			
H	Wall mounted extract fan control switch (R/F/230V)	32	nr			
J	Television Outlets; 2 No. co-axial cables/points required; 2 No. cables to be provided to each TV point	32	nr			
K	Television junction box; allow for 2 No. x 60.0m coaxial cable from each apartment	32	nr			
L	Remote heating panel	36	nr			
M	20A Switched fused spur outlet complete with neon light (Dishwasher)	32	nr			
N	20A Switched fused spur outlet complete with neon light (Washer/Dryer)	32	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	32A Switched isolator outlet complete with neon light complete with neon light (Cooker)	32	nr			
B	13A Switched isolator outlet complete with neon light (Kitchen Extract Fan)	32	nr			
C	13A Unswitched fused spur outlet complete with neon light (Fire Alarm Panel)	32	nr			
D	13A Unswitched fused spur outlet IP65 complete with neon light (Door Access Control)	1	nr			
E	1 x 12 way power distribution unit for cabinet on a 20A fused spur connection to landlord supply	1	nr			
F	32A 3 Phase surface Spur outlet (Lift); connected to landlords supply	4	nr			
G	13A Switched fused spur outlet complete with neon light (Manifold)	32	nr			
H	Key operated cleaners socket	4	nr			
J	Switched 3 Phase fused spur outlet, IP66 (Lift)	4	nr			
K	Lift Panel	4	nr			
L	Fireman Switch; 20A fused spur outlet ; pre wired with 4No. x MC4 connectors and 1 No. x M12 cable gland for AC	4	nr			
M	13A Unswitched fused spur outlet complete with neon light (Automatic Opening Vent)	1	nr			
N	AOV Switch; mounted at high level	1	nr			
P	13A Switched socket outlet complete with neon light (Extract Fan)	32	nr			
Q	13A switched fused spur outlet (supply to indoor air to water unit)	32	nr			
R	25A supply to external air to water unit complete with external IP65 Isolator switch	32	nr			
S	Electronic room thermostat (Radiators within the room/ensuite bedrooms and corridors)	16	nr			
T	Electronic room thermostat (Radiators within the kitchen/living room and dining areas)	16	nr			
U	External door bell (Vandal proof)	32	nr			
V	Internal doorbell chime unit	32	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Double data/phone point service unit (wired back in separate conduit to data/telephone junction (ATB) box	32	nr			
B	Double data/phone point service unit (wired back in separate conduit to data/telephone junction (ITB) box	32	nr			
C	Telephone outlet; CAT 6A	32	nr			
D	13A Unswitched fused spur outlet (Future intruder alarm)	32	nr			
E	13A Switched fused spur outlet complete with neon light (2-3 port motorized valve)	64	nr			
F	13A Single switched socket outlet complete with neon light (Fridge/Freezer)	32	nr			
G	13A Single switched socket outlet complete with neon light (Booster set)	32	nr			
H	LV Manifold Actuator	32	nr			
	External Bin Store					
J	13A Switched fused spur outlet complete with neon light (Circulating Pump)	1	nr			
K	Twin switched socket outlet; complete with double pole switching; above counter	1	nr			
	Mains and sub-mains cables					
	Mains & Sub mains cable distribution system					
L	General services, small power & communications services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
M	Mains Distribution Board	1	nr			
N	Sub Mains Distribution Board	32	nr			
P	Comms cabinet	1	nr			
Q	Primary Distribution Cabinet; Location; Ground Floor	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Terminations					
	Fittings					
	West Block					
A	Twin switched socket outlet; complete with double pole switching	348	nr			
B	Twin switched socket outlet; complete with double pole switching; above counter	88	nr			
C	Future Wifi Box location; telephone and data outlets to be wired back to this location (with double socket and data point; installed 1.0m above F.F,L	32	nr			
D	Wall mounted extract fan control switch (R/F/230V)	32	nr			
E	Television Outlets; 2 No. co-axial cables/points required; 2 No. cables to be provided to each TV point	32	nr			
F	Television junction box; allow for 2 No. x 60.0m coaxial cable from each apartment	32	nr			
G	Remote heating panel	36	nr			
H	20A Switched fused spur outlet complete with neon light (Dishwasher)	32	nr			
J	20A Switched fused spur outlet complete with neon light (Washer/Dryer)	32	nr			
K	32A Switched isolator outlet complete with neon light complete with neon light (Cooker)	32	nr			
L	13A Switched isolator outlet complete with neon light (Kitchen Extract Fan)	32	nr			
M	13A Unswitched fused spur outlet complete with neon light (Fire Alarm Panel)	32	nr			
N	13A Unswitched fused spur outlet IP65 complete with neon light (Door Access Control)	1	nr			
P	1 x 12 way power distribution unit for cabinet on a 20A fused spur connection to landlord supply	1	nr			
Q	32A 3 Phase surface Spur outlet (Lift); connected to landlords supply	4	nr			
R	13A Switched fused spur outlet complete with neon light (Manifold)	32	nr			
S	Key operated cleaners socket	4	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Switched 3 Phase fused spur outlet, IP66 (Lift)	4	nr			
B	Lift Panel	4	nr			
C	Fireman Switch; 20A fused spur outlet ; pre wired with 4No. x MC4 connectors and 1 No. x M12 cable gland for AC	4	nr			
D	13A Unswitched fused spur outlet complete with neon light (Automatic Opening Vent)	1	nr			
E	AOV Switch; mounted at high level	1	nr			
F	13A Switched socket outlet complete with neon light (Extract Fan)	32	nr			
G	13A switched fused spur outlet (supply to indoor air to water unit)	32	nr			
H	25A supply to external air to water unit complete with external IP65 Isolator switch	32	nr			
J	Electronic room thermostat (Radiators within the room/ensuite bedrooms and corridors)	16	nr			
K	Electronic room thermostat (Radiators within the kitchen/living room and dining areas)	16	nr			
L	External door bell (Vandal proof)	32	nr			
M	Internal doorbell chime unit	32	nr			
N	Double data/phone point service unit (wired back in separate conduit to data/telephone junction (ATB) box	32	nr			
P	Double data/phone point service unit (wired back in separate conduit to data/telephone junction (ITB) box	32	nr			
Q	Telephone outlet; CAT 6A	32	nr			
R	13A Unswitched fused spur outlet (Future intruder alarm)	32	nr			
S	13A Switched fused spur outlet complete with neon light (2-3 port motorized valve)	64	nr			
T	13A Single switched socket outlet complete with neon light (Fridge/Freezer)	32	nr			
U	13A Single switched socket outlet complete with neon light (Booster set)	32	nr			
V	LV Manifold Actuator	32	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	External Bin Store					
A	13A Switched fused spur outlet complete with neon light (Circulating Pump)	1	nr			
B	Twin switched socket outlet; complete with double pole switching; above counter	1	nr			
	Cable Containment System within Reinforced Concrete Slab / Walls					
	Ground Level to Roof; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13 & E14					
C	Cable Containment System; "Kaiser" or equal and approved concrete casting cable containment system set into concrete; comprising 25mm diameter heavy duty conduit, 32mm diameter heavy duty conduit, 40mm diameter heavy duty conduit; socket boxes, fixture housings; wall to ceiling transitions		Item			
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Testing and commissioning					
D	General services, small power & communications services system installations		Item			
	Operating and maintenance manuals for					
E	General services, small power & communications services system installations		Item			
	Working drawings					
F	General services, small power & communications services system installations		Item			
	Co-ordination drawings					
G	General services, small power & communications services system installations		Item			
	As built drawings					
H	General services, small power & communications services system installations		item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Digital safety file					
A	General services, small power & communications services system installations		Item			
	Identification plates, labels and the like for					
B	General services, small power & communications services system installations		Item			
	Demonstrations					
C	General services, small power & communications services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
D	General services, small power & communications services system installations		Item			
	Fire stopping and other associated fire protection work for					
E	General services, small power & communications services system installations		Item			
	FIRE ALARM INSTALLATION					
	System					
F	Fire Alarm Installation to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10		Item			
	Equipment					
	Fire Alarm Installation; Equipment; installation all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	West Block					
G	Fire Alarm Panel; Location, Ground Floor	1	nr			
H	Aspirating Smoke Detector Unit; Location, Second Floor	1	nr			
J	Disabled Refuge System; Wheelchair Refuge Areas	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	West Block; Landlord Areas					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	12	nr			
B	Addressable Interlinked Heat Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	16	nr			
C	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	8	nr			
D	Firemans Switch	1	nr			
E	Fire Alarm AOV	1	nr			
F	Manual Call Point; fixed 1200mm above F.F.L	5	nr			
G	LED Indicator; interlinked to unit addressable fire alarm sounder	8	nr			
H	Addressable External Fire Alarm sounder/strobe unit	4	nr			
J	Fire Alarm Interface Unit complete with electrical spur	4	nr			
K	P.I.R Luxomat PD4-M-DIM; ceiling mounted occupancy detector; 1-10 V interface	28	nr			
L	Emergency Panel Receiver	1	nr			
M	Magnetic door lock release	1	nr			
	West Block; Domestic Areas					
N	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	28	nr			
P	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	8	nr			
Q	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	8	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Carbon Monoxide Detector; mains operated, battery back-up	8	nr			
B	Smoke Detector complete with sounder; mains operated, battery back-up	35	nr			
	Bin Store					
C	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	1	nr			
D	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	2	nr			
	Distribution system					
	Pipework; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6					
E	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location: (Routed via ceiling void)		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Final circuits (including points terminations)					
	Terminations					
	Terminations to Fire Alarm installations					
	West Block					
	Equipment					
F	Fire Alarm Panel	1	nr			
G	Aspirating Smoke Detector Unit	1	nr			
H	Disabled Refuge System	1	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	West Block; Landlord Areas					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	12	nr			
B	Addressable Interlinked Heat Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	16	nr			
C	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	8	nr			
D	Firemans Switch	1	nr			
E	Fire Alarm AOV	1	nr			
F	Manual Call Point; fixed 1200mm above F.F.L	5	nr			
G	LED Indicator; interlinked to unit addressable fire alarm sounder	8	nr			
H	Addressable External Fire Alarm sounder/strobe unit	4	nr			
J	Fire Alarm Interface Unit complete with electrical spur	4	nr			
K	P.I.R Luxomat PD4-M-DIM; ceiling mounted occupancy detector; 1-10 V interface	28	nr			
L	Emergency Panel Receiver	1	nr			
M	Magnetic door lock release	1	nr			
	West Block; Domestic Areas					
N	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	28	nr			
P	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	8	nr			
Q	Alarm Test/Control switch for domestic Smoke/Heat/Carbon Monoxide detectors	8	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Carbon Monoxide Detector; mains operated, battery back-up	8	nr			
B	Smoke Detector complete with sounder; mains operated, battery back-up	35	nr			
	Bin Store					
C	Addressable Fire Alarm Sounder complete with LED strobe unit (Visual & Audio)	1	nr			
D	Addressable Interlinked Smoke Detector complete with sounder; mains operated, battery back-up; linked to Fire Alarm panel	2	nr			
	Earthing and bonding installation; Aspirating Smoke Detector Unit;					
E	Fire Alarm System Installation		Item			
	General					
	General items;					
	Testing and commissioning					
F	Fire Alarm System Installation		Item			
G	Fire Suppression System Installation		Item			
	Operating and maintenance manuals for					
H	Fire Alarm System Installation		Item			
J	Fire Suppression System Installation		Item			
	Working drawings					
K	Fire Alarm System Installation		Item			
L	Fire Suppression System Installation		Item			
	Co-ordination drawings					
M	Fire Alarm System Installation		Item			
N	Fire Suppression System Installation		Item			
P	Leak Detection System Installation		Item			
	As built drawings					
Q	Fire Alarm System Installation		Item			
R	Fire Suppression System Installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Digital safety file					
A	Fire Alarm System Installation		Item			
B	Fire Suppression System Installation		Item			
	Identification plates, labels and the like for					
C	Fire Alarm System Installation		Item			
D	Fire Suppression System Installation		Item			
	Demonstrations					
E	Fire Alarm System Installation		Item			
F	Fire Suppression System Installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Fire Alarm System Installation		Item			
H	Fire Suppression System Installation		Item			
	Fire stopping and other associated fire protection work for					
J	Fire Alarm System Installation		Item			
K	Fire Suppression System Installation		Item			
	<u>SECURITY SERVICES INSTALLATIONS</u>					
	System					
L	CCTV Services system installation; General services, small power & communications services systems to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16		Item			
M	Access Control Services system installation; General services, small power & communications services systems to West Block; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Equipment					
	Equipment; all as per Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents and Drawings					
	West Block					
A	CCTV 8 Channel network video recorder complete with 3TB storage	1	nr			
B	Access control system control panel - rack mounted	1	nr			
	Fittings					
	Fittings; all as per Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents and Drawings					
	CCTV System					
C	Dome digital colour camera; camera to to be 52048X1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	4	nr			
D	IP65 camera point	4	nr			
	Access Control System					
E	Door access gateway data point; Cat 6 cabling	1	nr			
F	Call push buttons outdoor video entrance panel complete with camera; IP54 rated; IK07 Legrand Bticino Classe 100V12B-Linea 2000 entrance panel	1	nr			
G	Internal wall mounted audio handset unit	36	nr			
H	Green break glass unit; resettable	1	nr			
J	Release button	1	nr			
K	Power supply to door access control panel	1	nr			
L	Magnetic door lock	1	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Mains & Sub mains cable distribution system					
A	CCTV Services system installations		Item			
B	Access Control Services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
	Equipment					
	West Block					
C	Dome digital colour camera; camera to to be 52048X1536 image resolution with varifocal auto IRS lens 2-12mm. Interface 1RJ45 10m/100m Ethernet; external	4	nr			
D	IP65 camera point	4	nr			
	Access Control System					
E	Door access gateway data point; Cat 6 cabling	1	nr			
F	Call push buttons outdoor video entrance panel complete with camera; IP54 rated; IK07 Legrand Bticino Classe 100V12B-Linea 2000 entrance panel	1	nr			
G	Internal wall mounted audio handset unit	36	nr			
H	Green break glass unit; resettable	1	nr			
J	Release button	1	nr			
K	Power supply to door access control panel	1	nr			
L	Magnetic door lock	1	nr			
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
M	CCTV Services system installations		Item			
N	Access Control Services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E1, E2, E3, E4, E5 & E16					
	Testing and commissioning					
A	CCTV Services system installations		Item			
B	Access Control Services system installations		Item			
	Operating and maintenance manuals for					
C	CCTV Services system installations		Item			
D	Access Control Services system installations		Item			
	Working drawings					
E	CCTV Services system installations		Item			
F	Access Control Services system installations		Item			
	Co-ordination drawings					
G	CCTV Services system installations		Item			
H	Access Control Services system installations		Item			
	As built drawings					
J	CCTV Services system installations		Item			
K	Access Control Services system installations		Item			
	Digital safety file					
L	CCTV Services system installations		Item			
M	Access Control Services system installations		Item			
	Identification plates, labels and the like for					
N	CCTV Services system installations		Item			
P	Access Control Services system installations		Item			
	Demonstrations					
Q	CCTV Services system installations		Item			
R	Access Control Services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
A	CCTV Services system installations		Item			
B	Access Control Services system installations		Item			
	Fire stopping and other associated fire protection work for					
C	CCTV Services system installations		Item			
D	Access Control Services system installations		Item			
	GENERAL AND EMERGENCY LIGHTING INSTALLATIONS					
	System					
E	General & emergency lighting system installations; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10		Item			
	Fittings					
	Light fittings, including LED lamps; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
F	Refer to Service Engineers schedule of luminaires for light fitting specifications		Note			
	Landlord Areas; Emergency Lighting					
G	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	5	nr			
H	Ansell Code Mercurial 1 IP54 2CCT multi wattage microwave sensor; self test emergency UV stabilised; photocell, MVVS plus 3 hour emergency output duration; 20W - 2500LM - CCT selectable at 4000K	8	nr			
J	Emergency Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	9	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Landlord Areas; Lighting					
A	Type B1 Luminaire; Planlicht Ophelia surface mounted luminaire; white; IP54 rating; 330MM luminous flux of 1873LM with 15 W; colour temperature of 3000K	5	nr			
B	Type B2 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 250MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	5	nr			
C	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	5	nr			
	Domestc Areas; Lighting					
D	Type Ae; Ansell Code Mercurial 1 IP54 2CCT multi wattage microwave sensor; self test emergency UV stabilised; photocell, MVVS plus 3 hour emergency output duration; 20W - 2500LM - CCT selectable at 4000K	8	nr			
E	Type B; Ansell Code AVIL/1/GR Vision CCT dual wattage LED bulkhead fitting; modern IP65 ; 18W - 2100LM - CCT selectable at 4000K	8	nr			
F	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	54	nr			
G	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	8	nr			
H	Type ST; Thorn Katona LED luminaire; Class II electrical, IP65; fixed output; complete with 4000K LED	9	nr			
J	LED under cupboard light; 2.75m long	32	nr			
	West Block Roof; Emergency Lighting					
K	Thorn Piazza II L TC-T HF PR; wall mounted vandal resistant luminaire; IP65; polycarbonate; 1 x 42W TC-TEL lamp; electronic; emergency lighting circuit; aluminium reflector complete with 840 lamp (s)	13	nr			
	West Block Roof; Lighting					
L	Thorn Piazza II L TC-T HF PR; wall mounted vandal resistant luminaire; IP65; polycarbonate; 1 x 42W TC-TEL lamp; electronic	8	nr			
M	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	54	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Bin Store; Emergency Lighting					
A	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	2	nr			
	Bin Store; Lighting					
B	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	4	nr			
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
	Landlord Areas					
C	One way switch; include for back box; external	8	nr			
D	Over ride switch; include for back box; external	9	nr			
	West Block					
E	One way switch; include for back box	82	nr			
F	One way switch; include for back box; external	8	nr			
G	Two way switch; include for back box	16	nr			
H	One way lockable switch; IP65 rated; include for back box	2	nr			
J	Light sensor Ref C-SEN	1	nr			
	Bin Store; Emergency Lighting					
K	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	2	nr			
L	One way lockable switch; IP65 rated; include for back box	2	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling;					
	Mains & Sub mains cable distribution system					
A	General & emergency lighting system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
B	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	5	nr			
C	Ansell Code Mercurial 1 IP54 2CCT multi wattage microwave sensor; self test emergency UV stabilised; photocell, MVVS plus 3 hour emergency output duration; 20W - 2500LM - CCT selectable at 4000K	8	nr			
D	Luminaire; Ventilux Optic LED OPNM3/LED/OP/DALI open plan non maintained self contaned high performance luminaire; 3 x 1W LED; minimum 300 Lumen	9	nr			
	Landlord Areas; Lighting					
E	Type B1 Luminaire; Planlicht Ophelia surface mounted luminaire; white; IP54 rating; 330MM luminous flux of 1873LM with 15 W; colour temperature of 3000K	5	nr			
F	Type B2 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 250MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	5	nr			
G	Type B3 Luminaire; Planlicht Ophelia surface mounted luminaire; white; 420MM efficiency of 125LM per W; luminous flux of 1563LM with 12.55 W; colour temperature of 3000K	5	nr			
	Domestc Areas; Lighting					
H	Type Ae; Ansell Code Mercurial 1 IP54 2CCT multi wattage microwave sensor; self test emergency UV stabilised; photocell, MVVS plus 3 hour emergency output duration; 20W - 2500LM - CCT selectable at 4000K	8	nr			
J	Type B; Ansell Code AVIL/1/GR Vision CCT dual wattage LED bulkhead fitting; modern IP65 ; 18W - 2100LM - CCT selectable at 4000K	8	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Type L; Ceiling rose complete with heat resistant lamp holder and LED light	54	nr			
B	Type G; Thorn Katona LED luminaire; Class II electrical, IP65; output; complete with 4000K LED	8	nr			
C	Type ST; Thorn Katona LED luminaire; Class II electrical, IP65; fixed output; complete with 4000K LED	9	nr			
D	LED under cupboard light; 2.75m long	32	nr			
	West Block Roof; Emergency Lighting					
E	Thorn Piazza II L TC-T HF PR; wall mounted vandal resistant luminaire; IP65; polycarbonate; 1 x 42W TC-TEL lamp; electronic; emergency lighting circuit; aluminium reflector complete with 840 lamp (s)	13	nr			
	West Block Roof; Lighting					
F	Thorn Piazza II L TC-T HF PR; wall mounted vandal resistant luminaire; IP65; polycarbonate; 1 x 42W TC-TEL lamp; electronic	8	nr			
G	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	13	nr			
	Bin Store; Emergency Lighting					
H	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	2	nr			
	Bin Store; Lighting					
J	Type MP; Thorn Ref 96636065 AQF S LED4300-840 PC MB HFLS; Moisture resistant LED luminaire; complete with 40000K LED; luminaire efficacy 148LM/W; overall dimensions 1100 X 92 X 90mm	4	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Accessories associated with terminal equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
	Landlord Areas					
A	One way switch; include for back box; external	8	nr			
B	Over ride switch; include for back box; external	9	nr			
	West Block					
C	One way switch; include for back box	82	nr			
D	One way switch; include for back box; external	8	nr			
E	Two way switch; include for back box	16	nr			
F	One way lockable switch; IP65 rated; include for back box	2	nr			
G	Light sensor Ref C-SEN	1	nr			
	Bin Store; Emergency Lighting					
H	Thorn Piazza II LED/Piazza LED 1690-840 HF E3 ANT; wall mounted luminaire; electronic; fixed output control gear with 3 hour manual test; emergency lighting circuit; die cast aluminium; BESA compatible IP65 IK10 complete with 4000K LED	2	nr			
J	One way lockable switch; IP65 rated; include for back box	2	nr			
K	General & emergency lighting system installations integration/interface into/with existing hospital		Item			
	Fittings - Light Fittings,					
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
L	General & emergency lighting system installations		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	General					
	General items; all as per Services Engineers Electrical Specification and Services Engineers Drawings E6, E7, E8, E9 & E10					
	Testing and commissioning					
A	General & emergency lighting system installations		Item			
	Operating and maintenance manuals for					
B	General & emergency lighting system installations		Item			
	Working drawings					
C	General & emergency lighting system installations		Item			
	Co-ordination drawings					
D	General & emergency lighting system installations		Item			
	As built drawings					
E	General & emergency lighting system installations		Item			
	Digital safety file					
F	General & emergency lighting system installations		Item			
	Identification plates, labels and the like for					
G	General & emergency lighting system installations		Item			
	Demonstrations					
H	General & emergency lighting system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
J	General & emergency lighting system installations		Item			
	Fire stopping and other associated fire protection work for					
K	General & emergency lighting system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	CABLE LADDER/TRAY/TRUNKING SYSTEM INSTALLATIONS					
	System					
A	Cable ladder/tray/trunking services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13 & E14		Item			
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13 & E14					
	West Block					
	Ground Level; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11					
B	LV cable tray with fittings; 400mm wide x 50mm high; ceiling void		Item			
C	LV cable tray with fittings; 300mm wide x 50mm high; ceiling void		Item			
D	LV cable tray with fittings; 200mm wide x 50mm high; ceiling void		Item			
E	LV cable tray with fittings; 100mm wide x 50mm high; ceiling void		Item			
F	Fire Alarm cable tray with fittings; 300mm wide x 50mm high; ceiling void		Item			
G	Fire Alarm cable tray with fittings; 150mm wide x 50mm high; ceiling void		Item			
	First Floor Level; all as per Services Engineers Electrical Specification and Services Engineers Drawings E12					
H	ELV cable tray with fittings; 200mm wide x 50mm high; ceiling void		Item			
J	ELV cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
K	LV cable tray with fittings; 100mm wide x 50mm high		Item			
L	Fire Alarm cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Second Floor Level; all as per Services Engineers Electrical Specification and Services Engineers Drawings E13					
A	ELV cable tray with fittings; 200mm wide x 50mm high; ceiling void		Item			
B	ELV cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
C	LV cable tray with fittings; 100mm wide x 50mm high		Item			
D	Fire Alarm cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
	Third Floor Level; all as per Services Engineers Electrical Specification and Services Engineers Drawings E14					
E	ELV cable tray with fittings; 200mm wide x 50mm high; ceiling void		Item			
F	ELV cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
G	LV cable tray with fittings; 100mm wide x 50mm high		Item			
H	Fire Alarm cable tray with fittings; 50mm wide x 50mm high; ceiling void		Item			
	Roof Level; all as per Services Engineers Electrical Specification and Services Engineers Drawings E15					
J	ELV cable tray with fittings; 100mm wide x 50mm high; ceiling void		Item			
K	ELV cable tray with fittings; 75mm wide x 50mm high; ceiling void		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13 & E14					
	Mains & Sub mains cable distribution system					
L	Cable ladder/tray/trunking services system installations		Item			
	Final circuits (including points terminations)					
	Terminations					
M	Cable ladder/tray/trunking services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General earthing and bonding					
	Earthing and bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawings E11, E12, E13 & E14					
A	Cable ladder/tray/trunking services system installations		Item			
	General					
	General items;					
	Testing and commissioning					
B	Cable ladder/tray/trunking services system installations		Item			
	Operating and maintenance manuals for					
C	Cable ladder/tray/trunking services system installations		Item			
	Working drawings					
D	Cable ladder/tray/trunking services system installations		Item			
	Co-ordination drawings					
E	Cable ladder/tray/trunking services system installations		Item			
	As built drawings					
F	Cable ladder/tray/trunking services system installations		item			
	Digital safety file					
G	Cable ladder/tray/trunking services system installations		Item			
	Identification plates, labels and the like for					
H	Cable ladder/tray/trunking services system installations		Item			
	Demonstrations					
J	Cable ladder/tray/trunking services system installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
K	Cable ladder/tray/trunking services system installations		Item			
	Fire stopping and other associated fire protection work for					
L	Cable ladder/tray/trunking services system installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	SITE LIGHTING SYSTEM INSTALLATIONS					
	System					
A	Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E20		Item			
B	Ducting & trenching work for site lighting measured in Site Service (Mainly Electrical)		Note			
	Equipment					
	Lights fixed on standards (elsewhere measured) and all as per manufacturers recommendations; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
C	Bega or equal and approved pole top luminaire; mounted on pole (measured elsewhere); Ref 99446K3; LED luminaire, 13.6 W; Luminous Flux 1799 LM, colour temperature 3000K	10	nr			
	Lights; set in concrete base (elsewhere measured) and all as per manufacturers recommendations; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
D	Bega or equal and approved luminaire; set in concrete base (measured elsewhere); Ref Element 84747K3; LED luminaire, 22.5 W; Luminous Flux 2375 LM, colour temperature 3000K	3	nr			
	Bollard Lights; set in concrete base (elsewhere measured) and all as per manufacturers recommendations; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
E	Bega or equal and approved bollard luminaire; set in concrete (measured elsewhere); Ref 99778K3; LED luminaire, 32.4 W; Luminous Flux 446 LM, colour temperature 3000K	16	nr			
	Lights; recessed; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
F	Bega or equal and approved recessed luminaire; recessed fitted into external wall;; Ref 33165; LED luminaire, 6.8 W; Luminous Flux 558 LM, colour temperature 3000K	10	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Lights; Site Lighting services system installation; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
A	Bega or equal and approved luminaire; fitted into external wall;; Ref 22175; LED luminaire, 6.8 W; Luminous Flux 6566 LM, colour temperature 3000K	2	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E20					
B	Site lighting services system installation		Item			
	Final Circuits (Including points terminations)					
	Terminations					
C	Site lighting services system installation		Item			
D	Bega or equal and approved pole top luminaire; mounted on pole (measured elsewhere); Ref 99446K3; LED luminaire, 13.6 W; Luminous Flux 1799 LM, colour temperature 3000K	10	nr			
E	Bega or equal and approved luminaire; set in concrete base (measured elsewhere); Ref Element 84747K3; LED luminaire, 22.5 W; Luminous Flux 2375 LM, colour temperature 3000K	3	nr			
F	Bega or equal and approved bollard luminaire; set in concrete (measured elsewhere); Ref 99778K3; LED luminaire, 32.4 W; Luminous Flux 446 LM, colour temperature 3000K	16	nr			
G	Bega or equal and approved recessed luminaire; recessed fitted into external wall;; Ref 33165; LED luminaire, 6.8 W; Luminous Flux 558 LM, colour temperature 3000K	10	nr			
	General earthing and bonding					
	Earthing and bonding installation; Mains and sub-mains cables, including all control & signal cabling; Site Lighting services system installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E27					
H	Site lighting services system installation		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	General					
	Testing and commissioning					
A	Site lighting services system installation		Item			
	Operating and maintenance manuals for					
B	Site lighting services system installation		Item			
	Working, co-ordination and as built drawings for					
C	Site lighting services system installation		Item			
	Identification plates, labels and the like for					
D	Site lighting services system installation		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
E	Site lighting services system installation		Item			
	Fire stopping and other associated fire protection work for					
F	Site lighting services system installation		Item			
	STRUCTURAL BONDING SERVICES INSTALLATIONS					
	System					
G	Structural Bonding installation; all as per Services Engineers Electrical Specification and Services Engineers Drawing E17		Item			
	Equipment					
	Equipment; all as per Services Engineers Electrical Specification and Services Engineers Drawings E17					
	West Block					
H	Earth Inspection pit/test chamber; complete with internal test point	8	nr			
J	Lightning Rods; 2.0m high air terminal	8	nr			
K	Vertical down conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to outside of building	116	m			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Horizontal conductor; 25mm x 6mm aluminium tape with grey insulation outer sleeve; fixed to roof of building	188	m			
B	Bond; complete with copper tape dropper	8	nr			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Services Engineers Electrical Specification and Services Engineers Drawings E17					
C	structural bonding services installations		Item			
	Final circuits (including points terminations)					
	Terminations					
D	structural bonding services installations		Item			
	General earthing and bonding					
	Earthing and bonding installation;					
E	structural bonding services installations		Item			
	General					
	General items;					
	Testing and commissioning					
F	structural bonding services installations		Item			
	Operating and maintenance manuals for					
G	structural bonding services installations		Item			
	Working drawings					
H	structural bonding services installations		Item			
	Co-ordination drawings					
J	structural bonding services installations		Item			
	As built drawings					
K	structural bonding services installations		Item			
	Digital safety file					
L	structural bonding services installations		Item			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Identification plates, labels and the like for					
A	structural bonding services installations		Item			
	Demonstrations					
B	structural bonding services installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
C	structural bonding services installations		Item			
	Fire stopping and other associated fire protection work for					
D	structural bonding services installations		Item			
	PORTABLE FIRE EXTINGUISHERS INSTALLATION					
	Primary Equipment					
	Fire Blankets					
	West Block					
E	1.80m x 1.20m fire blanket & sign c/w wall fixing; Location: Apartments	32	nr			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
F	Testing		Item			
G	Surveys		Item			
H	Samples		Item			
J	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
K	Testing		Item			
L	Surveys		Item			
M	Samples		Item			
N	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/18/1					
Page No. West/18/2					
Page No. West/18/3					
Page No. West/18/4					
Page No. West/18/5					
Page No. West/18/6					
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Page No. West/18/8					
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Page No. West/18/10					
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Page No. West/18/13					
Page No. West/18/14					
Page No. West/18/15					
Page No. West/18/16					
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Page No. West/18/20					
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Page No. West/18/24					

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/18/25					
Page No. West/18/26					
Page No. West/18/27					
Page No. West/18/28					
Page No. West/18/29					
Page No. West/18/30					
Page No. West/18/31					
EL (69) ELECTRICAL INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (66) TRANSPORT INSTALLATION					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	ALTERNATIVE RULES FOR THE MEASUREMENT OF LIFT INSTALLATION					
	Deviation from ARM 4					
	The Electrical Installation has been measured in accordance with the Agreed Rules of Measurement ARM4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations. The Lift Installation is to be priced in accordance with said Measure, Detailed Design, Performance Specification and Drawings prepared by the Services Engineer and included in the Works Requirements.	1	Note			
	LIFT INSTALLATIONS					
	System					
A	Lift installations services system installation all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Equipment TYPE OF LIFT: Electric Drive P-Passenger elevator; COMPLIANCE CODE: The Lift Installation shall comply with EN81-20:2014 Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods, EN81-73:2016 Behaviour of lifts in the event of fire, EN81-70:2018 Accessibility to Lifts for persons including persons with disability; TYPE OF DRIVE Gearless; NUMBER OF FLOORS 4 No.: LIFT TRAVEL DISTANCE 4 No. Floors @ 3.4m per floor; RATED SPEED 1.0m/s RATED CAPACITY: 630kg/8 No. persons; SHAFT DIMENSIONS 1.65m wide x 1.80m deep; SHAFT CONSTRUCTION, Concrete; PIT HEIGHT 1.10m; HEADROOM 3.40m; ENTRANCES: 4 No. front entrances; FIRE RESISTANCE 2 hour rating (FD120); MACHINERY LOCATION; Top of lift shaft; CONTROL SYSTEM, Full Collective. Simplex; MACHINE OUTPUT 4kW; ELECTRICAL SUPPLY: Nominal supply current with shaft lighting 11A; Starting supply curent 13A; Main Fuses 10A; Power Supply, machinery 3 x 400/50 V/hZ; Power supply 230/50V/Hz; GUIDES AND ATTACHMENTS; Expander bolts fixing Car with sliding shoes; ROPES; Steel hoisting ropes; CAR DIMENSIONS 1.10m wide x 1.40m deep x 2.10m high: DOOR SIZE 0.90m wide x 2.00m high LIFT CAR FIINISHES: Floor Finishes, Ceiling Finishes Wall Finishes, Handrails and Operating Panel and Indicators as per Section 3 of the Lift Specification: LIFT CAR FITMENTS: Lift car fitments all as per Section 3 of the Lift Specification; LIFT CAR/EMERGENCY LIGHTING: all as per Section 3 of the Lift Specification; COMMUNICATION: al as per Section 3 of the Lift Specification					
A	Passenger Lift	1	Item			
	Fittings Fittings; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	3 Phase isolator	1	nr			
C	Single socket outlet	1	nr			
D	Phone point	1	nr			
E	25 amp switch fused isolator	1	nr			
F	10 amp fuse spur	1	nr			
G	Smoke aspirator unit	1	nr			
H	key reader and proximity sensor at each floor	4	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Accessories associated with terminal equipment					
	Outlets, switches, panels, alarms, sensors, detectors and the like					
A	Two gang two way light switches, include for Back Box	2	nr			
	Distribution system					
	Pipework; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
B	Aspirating smoke detection flow & return pipework including sampling heads and filters; Location:[As per Site Specific Electrical Specification Section]		Item			
	Mains and sub-mains cables					
	Mains and sub-mains cables, including all control & signal cabling; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
C	Lift installations		Item			
	Final Circuits (Including points terminations)					
	Terminations					
D	Lift installations		Item			
	General earthing and bonding					
	Earthing and bonding installation; all as per Service Engineers drawings together with services engineers Electrical Services Engineer's General Specification, Site Specific Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents & specifically the Lift Specification					
E	Lift installations		Item			
	General					
	Testing and commissioning					
F	Lift installations		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Operating and maintenance manuals for					
A	Lift installations		Item			
	Co-ordination drawings					
B	Lift installations		Item			
	As built drawings					
C	Lift installations		Item			
	Digital safety file					
D	Lift installations		Item			
	Identification plates, labels and the like for					
E	Lift installations		Item			
	Demonstrations					
F	Lift installations		Item			
	Builders work for (also refer to Services Engineers schedule of builders work and attendances)					
G	Lift installations		Item			
H	Allow for 300x300mm ope to top of lift shaft for lift shaft ventilation. Allow for the provision of a lift smoke vent to external air (to include all necessary fire rated ducting and roof opes, cowls etc.) which shall be compliant with the building fire certificate and in accordance with the architects specification.		Item			
J	Allow for providing metal ladder in the lift pit 1100mm deep.		Item			
K	Allow for 60/60 one hour rated fire sealing around architraves on each landing door		Item			
L	Provide opes for floor indicator boxes, 4 No. 300mm x 100mm nominal and making good.		Item			
M	Provide opes for landing push boxes, 4 No. 150 x 150 mm and making good.		Item			
N	Provide lifting beam at top of lift shaft to carry 2000 kg (Refer to Roof Element)		Item			
P	Allow for building in of door sills at each landing door.		Item			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Allow for building in 2 metres long Unistrut channel at 2 m. centres in the lift shaft.		Item			
B	Allow for floor ope at bottom of lift shaft for lift sump.		Item			
C	Allow for protective materials / sheeting to protect exposed Lift Equipment, shaft lighting, electrical accessories within the shaft etc.		Item			
D	Allow for liaison and coordination with the Electrical contractor in relation to permanent shaft lighting, phone line and power supply installation to ensure commissioning on project programme		Item			
	PAINTING AND DECORATING: Painting					
	Lift Shaft Walls					
E	> 300mm wide	102	m2			
	Fire stopping and other associated fire protection work for					
F	Lift installations		Item			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
L	Testing		Item			
M	Surveys		Item			
N	Samples		Item			
P	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/19/1					
Page No. West/19/2					
Page No. West/19/3					
Page No. West/19/4					
Page No. West/19/5					
EL (66) TRANSPORT INSTALLATION **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (--) BUILDERS WORK					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	This element of the work has been measured from Service Engineer's drawings together with Services Engineer's Specification, Equipment Schedules, Equipment Data Sheets, Engineers's Scope of Works Documents.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	SUNDRIES AND BUILDERS WORK					
A	Note that Forming or cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floorboards or raised access floor panels etc and making good are deemed to be included in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations.	1	Item			
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	West Block - Electrical Installation - All One Hour Fire Rating					
	Tray/Trunking					
B	500 x 180mm	9	nr			
	Internal Services - Generally					
	Power Distribution					
C	Data Points	260	nr			
D	Double Sockets	368	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Spurs	360	nr			
B	Room Stats	80	nr			
C	Main/Sub Distribution Board	1	nr			
D	Apartment Meters	36	nr			
E	MCC/RHP	36	nr			
F	Knock Off Points/Switches/Buttons	60	nr			
G	Window Actuators	6	nr			
H	Lift Panels	5	nr			
J	CCTV Camera	6	nr			
K	Over/Under counter double sockets	100	nr			
L	Extract Fan	35	nr			
M	Door bell with internal chime unit	35	nr			
N	P.I.R Sensor	33	nr			
P	Magnetic Door Lock	6	nr			
	Lighting					
Q	General Lights Landlord & Corridor	55	nr			
R	General Apartments (all interior)	270	nr			
S	Moisture Proof Lights	35	nr			
T	External Bulkheads/lighting (terrace)	35	nr			
U	Switches	380	nr			
V	Exit Signs	20	nr			
W	Emergency Lights (EM)	40	nr			
X	Emergency LED Indicator (above doors)	35	nr			
	Fire Detection					
Y	Smoke Heads	160	nr			
Z	Fire Alarm Sounder	150	nr			
AA	Manual Call Points	10	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Heat Detector	70	nr			
B	Fire Alarm Panel/Repeater	6	nr			
C	Interface Units	50	nr			
D	Disabled Refuge	1	nr			
	Extras					
E	Cable Tray	400	m			
F	Floor Trenching	350	m			
G	Note that Forming or cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floorboards or raised access floor panels etc and making good are deemed to be included in accordance with the Agreed Rules of Measurement 4, Supplement 2 - Agreed Alternative Rules for the Measurement of Services Installations.	1	Item			
	Holes, mortices, chases and the like					
	Allow for general builders work forming or coring holes in walls, trimming, fireproofing, soundproofing and making good to existing structure and finishes disturbed as required; all in accordance with Architects and Service Engineers Drawings and Specifications. Allow for firestopping, as per the firerating of structure to which it penetrates / is fixed to, around each opening after services have been installed. Allow for 2.5mm pre-finished metal acoustic angle fixed and bedded on acoustic sealant to AC ducts as per Architects Drawing and as per Architects Specification					
	West Block - Mechanical Installation - All One Hour Fire Rtaing					
	Service Hatches					
H	Service/Maintenance Hatches; overall size 600 x 600mm	64	nr			
	Drainage					
J	Opes thro insitu concrete ground floor slab; 40mm diameter (for 32mm diameter pipe)	8	nr			
K	Opes thro insitu concrete ground floor slab; 50mm diameter (for 40mm diameter pipe)	20	nr			
L	Opes thro insitu concrete ground floor slab; 125mm diameter (for 110mm diameter pipe)	18	nr			

	Description	Qty	Unit	Rate	€	c
A	Opes thro insitu concrete floor slab; 40mm diameter (for 32mm diameter pipe)	60	nr			
B	Opes thro insitu concrete floor slab; 50mm diameter	63	nr			
C	Opes thro insitu concrete floor slab; 125mm diameter	48	nr			
D	Opes thro rendered 215mm solid blockwork Internal walls; 40mm diameter (for 32mm diameter pipe)	28	nr			
E	Opes thro rendered 215mm solid blockwork Internal walls; 50mm diameter (for 40mm diameter pipe)	16	nr			
F	Opes thro ceiling structure; 40mm diameter (for 32mm diameter pipe)	28	nr			
G	Opes thro ceiling structure; 50mm diameter (for 40mm diameter pipe)	18	nr			
H	Opes thro ceiling structure; 125mm diameter (for 110mm diameter pipe)	18	nr			
J	Opes thro reinforced concrete roof structure; 125mm diameter	9	nr			
	Water Distribution					
K	Opes thro 475mm insulated cavity wall withith 100mm brickwork outer leaf and 215mm blockwork inner leaf for water pipes; 75 x 75mm	32	nr			
L	Opes thro 215mm block walls for water pipes; 75 x 75mm	36	nr			
M	Opes thro 215mm block walls for water pipes; 75 x 150mm	100	nr			
N	Opes thro skimed plasterboard MF ceilings for water pipes; 75 x 150mm	64	nr			
	Space Heating					
P	Opes thro ceiling slab for heating pipes; 75 x 150mm	192	nr			
Q	Opes thro 215mm block walls for heating pipes; 75 x 150mm	250	nr			
	Ventilation Services					
R	Opes thro ceiling slab for ventilation pipework; 125mm diameter	88	nr			
S	Opes thro 215mm blockwork wall for ventilation pipework; 125mm diameter	200	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
A	Opes thro 475mm insulated cavity wall withith 100mm brickwork outer leaf and 215mm blockwork inner leaf; 125mm diameter	64	nr			
	Rectangular verticle opes through floor roof / slabs 1hr rated					
	Plinths for Equipment					
	Insitu concrete plinths for equipment; include for all necessary concete, reinforcement and formwork; overall height 150mm					
B	2000 x 3000mm; plinth for outdoor heat pumps	2	nr			
C	2000 x 6000mm; plinth for outdoor heat pumps	2	nr			
D	5000 x 3000mm; plinth for outdoor heat pumps	1	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/20/1					
Page No. West/20/2					
Page No. West/20/3					
Page No. West/20/4					
Page No. West/20/5					
EL (--) BUILDERS WORK **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (73) CULINARY FITTINGS					
	(73) CULINARY FITTINGS					
A	This element of the work has been measured from Architects Drawings 496		Note			
B	The Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	Fittings					
	Fittings, Equipment and Furniture					
	Fitted Units to Kitchens; manufacturer to Contractors choice; 18mm high pressure laminate MDF carcass. 18mm HPL MDF door. 18mm HPL MDF drawer front. 38mm high pressure laminate worktop. 120mm stainless steel finger pull handle. adjustable shelf supports. soft close cabinet hinge. powder coated steel drawer runners and sides. adjustable plinth feet. stainless sleet clad MDF plinth panel. framing - 44x50mm softwood. led channel light. painted hardwood packer to form. inclusive of base units and kick board; wall units, pelmet and coving. Inclusive of all doors, drawers, shelving, ironmongery, side panels, carcassing, plinths, legs, sealing etc. complete and allowing for all required grounds, fixings, cutouts for services, sinks wastes etc.. Dimensions: as shown on Architects Drawings. All as per Architects Drawings and Architect's specification N10 & N11					
F	Tiling measured under Internal Wall Finishes Element		Note			
	Apartment Type A - per drawing 496 & 540-542					
G	L Shaped on Plan: Base Unit 600mm wide x overall 5832mm long with 3 no enclosed cabinets and 3 Set of Drawers under	16	No			
H	Extra over for Cabinet for Integrated Dishwasher	16	No			
J	Extra over for Cabinet for Integrated Fridge (Full height)	16	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	L Shaped on Plan: Wall Unit 350mm deep x 4320mm wide x 750mm high (incorporating 7no storage cabinets)	16	No			
B	Wall Unit 350mm deep x 600mm wide x 750mm high (incorporating 1no storage cabinets)	16	No			
	Apartment Type A (Storage) - per drawing 488					
C	Countertop 600mm wide x 1100mm long	16	No			
D	Countertop 400mm wide x 1000mm long	16	No			
	Apartment Type B - per drawing 496 & 542-543					
E	Base Unit 600mm wide x 3440mm long with 2 no enclosed cabinets and 1 Set of Drawers under	8	No			
F	Extra over for Cabinet for Integrated Dishwasher	8	No			
G	Extra over for Cabinet for Integrated Fridge	8	No			
H	Wall Unit 350mm deep x 2420mm wide x 750mm high (incorporating 4no storage cabinets)	8	No			
J	Full Height Storage Unit 830mm deep x 1030mm wide x 2670mm high	8	No			
	Apartment Type C - per drawing 497 & 540-542					
K	L Shaped on Plan: Base Unit 600mm wide x overall 5814mm long with 3 no enclosed cabinets and 3 Set of Drawers under	8	No			
L	Extra over for Cabinet for Integrated Dishwasher	8	No			
M	Extra over for Cabinet for Integrated Fridge (Full height)	8	No			
N	L Shaped on Plan: Wall Unit 350mm deep x 4320mm wide x 750mm high (incorporating 7no storage cabinets)	8	No			
P	Wall Unit 350mm deep x 600mm wide x 750mm high (incorporating 1no storage cabinets)	8	No			
	Apartment Type C (Storage) - per drawing 490					
Q	Countertop 600mm wide x 1100mm long	8	No			
R	Countertop 400mm wide x 2000mm long	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Extractor Hood					
A	Supply and fit Bosch Series 4 or equivalent wall mounted cooker hood 60cm in stainless steel (code DWB65CC30B) as per MOMA Services Engineers Mechanical Specification and Schedule. Include for all necessary wiring, etc complete.	32	no			
B	Standard 150mm diameter duct from cooker hood., Include for all necessary fittings, bend, brackets etc complete.	160	m			
C	Neatly Core existing Insulated Cavity wall external wall (215mm rendered blockwork inner leaf & 100mm Brickwork outer leaf;- overall approx. 475mm wide for 150mm vent duct. Include for all necessary sealing around duct etc. complete.	32	no			
D	Suitable stainless steel vent covers fitted to extenal face of rendered masonary wall. Include for insect mesh etc complete.	32	no			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/21/1					
Page No. West/21/2					
Page No. West/21/3					
EL (73) CULINARY FITTINGS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (74) SANITARYWARE & HYGIENE FITTINGS					
	General Information					
	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		Note			
	Location drawings for this Element are listed in the drawing registers.		Note			
	It will be deemed that the Contractor has inspected the works requirements, site and consulted all available information before submitting his tender.		Note			
	FITTINGS: Fittings Equipment and Furniture - [Sanitary Fittings]					
	Bath Set					
	Bath Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.355; Bath; "Bette Form" or equal and approved; no tap holes; fixed to floor; adjustable feet, product reference 2944; Size 1650 x 750 x 420/1170mm. Material: Enameled steel; Colour, White; Fittings; "Grohe Concetto" or equal and approved concealed bath and shower mixer; product reference 3550100; "Grohe Concetto" or equal and approved chrome Mixer Trim; product reference 19346001; "Grohe Atrio" or equal and approved chrome bath spout; product reference 13139003; "Grohe Tempesta 110" or equal and approved concealed chrome shower hose and rail; product reference 27598003; "Grohe" or equal and approved chrome shower outlet elbow; FIXING: all as per manufacturers instructions; SEALING; sealing joints between bath and wall with mildew resistant silicone					
A	overall size 1650 x 750 x 420/1170mm	32	nr			
	WC Set					
	WC Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.300; "Ideal Standard I Life B" or equal and approved back to wall bowl and seat; product reference E2608; Size 400mm wide x 355mm wide x 540mm projection; Material: bowl in white vitreous china to BS 3402. Colour, White; Cistern, "Ideal Standard Concealea 3" or equal and approved back to wall concealed cistern ; Product Reference S332667; Flush plate; "Ideal Standard Concealea" or equal and approved pneumatic flush, product reference S1082AA;					
B	overall size 400mm wide x 355mm wide x 540mm projection	32	nr			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Washbasin Set					
	Washbasin Set; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.335; "Ideal Standard Portman 21" 50cm washbasin, single tap hole with overflow; product reference S2311; Size 500mm wide x 420mm wide x 195mm deep. Material: Wash hand basin in white vitreous china to BS 3402. Colour, White; Tap; "Ideal Standard Ceraline" or equal and approved chrome mixerer tap; Product Reference BC186AA; Trap, "Ideal Standard" or equal and approved bottle trap, product reference S8900; Waste, "Ideal Standard" or equal and approved chrome waste; Product Reference 27057000A; Valves."Ideal Standard" or equal and approved thermostatic mixing valve, product reference A5900; Accessories: "Ideal Standard; or equal and approved wall mounting kit, product reference E0157; sealing joint between basin and wall with mildew resistant silicone					
A	overall size 500mm wide x 420mm wide x 195mm deep	32	nr			
	Sink Units to Kitchens					
	Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.331A; "Franke" or equal and approved polished stainless steel sink with right hand drainer complete with with basket strainer waste, trap and plumbing kit;; Product Reference AZN 611-100 REV; Size 1000mm x 500mm; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays, Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
B	overall size 1000 x 500mm	24	nr			
	Sink; all as per Architects Drawings and Sanitaryware Specification; Specification Clause Ref N13.331B; "Franke" or equal and approved polished stainless steel sink with left hand drainer complete with with basket strainer waste, trap and plumbing kit;; Product Reference BXC 211-86 LHD; Size 860mm x 480mm; Tap; "Grohe Minta" chrome pillar tap; tap with pull out spout and 2 No. sprays, Product Reference 30 274 000; sealing joint between sink and countertop with mildew resistant silicone					
C	overall size 860 x 480mm	8	nr			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Accessories					
	Toilet Roll Holders					
	Toilet Roll Holders; "Ideal Standard IOM" or equal and approved chrome toilet roll holder; Product Reference A9132AA					
A	generally	32	nr			
	Mirrors					
	Float glass mirror, silvered to give maximum reflection and free from tarnishing, discoloration, scratches and other defects; size - 500mm wide x 800mm high; thickness - 6 mm; lead foil or aluminium backing; 6mm polished bevel edge treatment; fixed with double sided self-adhesive pades at 400mm centres; all as per Architects specification clause N10/1 (e)					
B	1900mm wide x 1340mm high x 6mm thick	32	nr			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
				To Collection €		

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/22/1					
Page No. West/22/2					
Page No. West/22/3					
EL (74) SANITARYWARE & HYGIENE FITTINGS **Carried to Summary**					

	Description	Qty	Unit	Rate	€	c
	EL (76) STORAGE, SCREENING FITTINGS					
	INFORMATION					
A	This element of the work has been measured from Architects Drawings 125 - 128, 488 - 490, 530 - 534,		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjuction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to specification.		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	Bedrooms					
	Wardrobes					
	Wardrodes complete, consisting of 18mm high pressure laminate MDF carcass. Door - 18mm high pressure laminate MDF hardwood lipped. Drawer front - 18mm high pressure laminate MDF hardwood lipped. 38mm high pressure laminate worktop. 50mm HW countertop (board min. 100). 50 X 50mm hardwood battens to desk. 25mm veneered MDF panel. 120mm stainless steel finger pull handle. Adjustable shelf support. Soft close cabinet hinge. Powder coated steel drawer runners and sides. Adjustable plinth feet. 12.5mm tile backer board. framing - 44x50mm softwood. painted hardwood packer to form shadow gap. Solid HW Panel. 18mm melamine veneered carcass. 25mm hardwood lipped and over veneered MDF. D shaped SS handle. HW veneered and over lipped MDF skirting. 20 X 30 hardwood battens. Include for all necessary framing to back of units, shelving, stainless steel hanging rails, decoration, ironmongery etc. complete, all per Architect's Drawing 535 to Specification Clause N10					
	Wardrobes Per Architect Drawing 530					
F	Wardrobe 1:- with 3 sets of Double doors overall 2952mm wide x 454mm deep x 2400mm high	8	No			
G	Wardrobe 2:- with 2 sets of Double doors overall 2312mm wide x 557mm deep x 2400mm high	8	No			
H	Wardrobe 3:- with 1 set of Double doors overall 935mm wide x 504mm deep x 2400mm high	8	No			

To Collection €

	Description	Qty	Unit	Rate	€	c
	Wardrobes Per Architect Drawing 531					
A	Wardrobe 4:- with 2 sets of Double doors overall 2088mm wide x 454mm deep x 2400mm high	8	No			
B	Wardrobe 5:- with 3 sets of Double doors overall 3210mm wide x 595mm deep x 2400mm high	8	No			
	Wardrobes Per Architect Drawing 533					
C	Wardrobe 7:- with 2 sets of Double doors overall 2054mm wide x 397mm deep x 2400mm high	16	No			
D	Wardrobe 8:- with 1 set of Double doors overall 700mm wide x 450mm deep x 2400mm high	16	No			
	Wardrobes Per Architect Drawing 534					
E	Wardrobe 9:- with 1 set of Double doors overall 1260mm wide x 449mm deep x 2400mm high	16	No			
F	Wardrobe 10:- with 3 sets of Double doors overall 2760mm wide x 595mm deep x 2400mm high	16	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Unit B - Hallway					
	Storage					
	Storage Unit Complete, Concealed Framed Riser Door System. Relevant door types: S, T, W and Storage unit in B Apartment Type in West Block. Manufacturer: selo or equivalent. Product reference: Quadra+ Riser Door System or equivalent. Door construction: 1.2mm sheet steel with mineral wool core. Frame Type: Concealed (as Standard). Finish: Powdercoated - RAL colour to Architects specification. Performance. Fire performance; Fire resistance: FD60S as per Fire Certificate Requirements to IS EN 13501-2, E60. E120 - Bi-directionally fire tested. Smoke leakage: Sa. Smoke seal: Required. Reaction to fire: To IS EN 13501-1, Class B-s3, d2 or better. Frame: As clause 330. Door Operation: Single Leaf / Double Leaf - refer to architectural drawings. Closer: Concealed overhead. Beading: N/A. Perimeter seals: Fire and smoke seal & Acoustic seal as required to meet acoustic and fire performance. Other requirements: Hardwood doorstops. Verification. Submittals.Include for all necessary framing, , backing, sides, base, decoration, ironmongery etc. complete, all per Architect's Drawings and Specification Clause L20B / 430E					
	Storage Unit Per Architect Drawing 532					
A	Stoarge Unit 6:- with 3 sets of Double doors overall 4915mm wide x 450mm deep x 2400mm high (All to Achieve 30min Fire Rating)	8	No			
	Bulkheads / Boxouts					
	Bulkheads / boxouts; Foil backed plasterboard, include for all necessary carbon steel support framework, treated softwood support framework / battens, all joints scrimmed and finished with 3mm skim coat of finishing plaster. Also include for all necessary insulation, stainless steel angle beads, sealing etc. complete, all as per Architects Drawing 535 and Specification					
	Form Bulkhead over;					
B	Wardrobe 1:- overall 2952mm wide x 454mm deep x 300mm high	8	No			
C	Wardrobe 2:- overall 2312mm wide x 557mm deep x 300mm high	8	No			
D	Wardrobe 3:- overall 935mm wide x 504mm deep x 300mm high	8	No			
E	Wardrobe 4:- overall 2088mm wide x 454mm deep x 300mm high	8	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
A	Wardrobe 5:- overall 3210mm wide x 595mm deep x 300mm high	8	No			
B	Stoarge Unit 6:- overall 4915mm wide x 450mm deep 300mm high (All to Achieve 30min Fire Rating)	8	No			
C	Wardrobe 7:- overall 2054mm wide x 397mm deep x 300mm high	16	No			
D	Wardrobe 8:- overall 700mm wide x 450mm deep x 300mm high	16	No			
E	Wardrobe 9:- overall 1260mm wide x 449mm deep x 300mm high	16	No			
F	Wardrobe 10:- overall 2760mm wide x 595mm deep x 300mm high	16	No			
	Painting and Decorating					
	Prepare and apply; Dulux D154 or Equivalent. Surfaces: plasterboard. Preparation: Clean down all surfaces. Seal with thinned coat Trade Dulux Ecosure or equal and approved. Initial coats: One thinned Trade Dulux Ecosure Matt or equivalent. Finishing coats: One thinned Trade Dulux Ecosure Matt or equivalentand all in strict accordance with the Manufacturers Recommendations and Architects Finishes Schedule and Specification Clause M60/110A					
	Bulkheads					
G	300mm wide	240	m			
	Fire Blankets					
H	Supply and fix to stud wall Fire Blanket to S.I.137, include for all necessary fittings, grounds to wall, etc complete,all to the satisfaction of the Architect.	32	No.			
	Shelving all as per Architect's Architects Specification					
	Airing Cupboard shelving all as per Architect's Drawings, include for all necessary, grounds, fixings, brackets, etc. complete					
J	70mm x 45mm softwood shelf support runners fixed to face of stud wall.	50	m			
K	50mm x 25mm soft wood batten fixed to shelf support runners (slewhere measued) at 100mm centres	82	m2			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Store shelving all as per Architect's Drawings, include for all necessary, grounds, fixings etc. complete					
A	2 rows of solid Timber Shelving 400mm wide x 1000mm long, including all necessary brackets etc. complete.	24	No.			
	SIGNAGE					
	Supply and fixing of all signage. Refer to Architects Drawing 710 and Specification, for signage sizes, graphics, font, lettering, images and colours. Include for all necessary fizings grounds etc. complete					
B	Locations of signage per Architects Signage Plan 705 to 707		Note			
	West Block - Ground Floor Signs					
C	Type 4 - Information Panel Outside Lift	1	No			
D	Type 8 - Reuge Areas	1	No			
	West Block - 1st Floor Signs					
E	Type 4 - Information Panel Outside Lift	1	No			
F	Type 8 - Reuge Areas	1	No			
	West Block - 2nd Floor Signs					
G	Type 4 - Information Panel Outside Lift	1	No			
H	Type 8 - Reuge Areas	1	No			
	WEst Block - 3rd Floor Signs					
J	Type 4 - Information Panel Outside Lift	1	No			
K	Type 8 - Reuge Areas	1	No			
	Postboxes					
L	Wall mounted post boxes by The Safety Letterbox Company or equivalent. Product reference: FR1 - 120 Vertical Fire Rated Mailbox or equivalent. To BS EN 13724, BS EN 1363-1:2012, BS 476 Parts 6 & 7. Classification grades (minimum). Type of aperture: Steel inward sprung flap, including security bridge. Aperture size: 235 x 26 mm. Fire resistance: 120 minutes. Form: Rectangle. Size: 120 x 380 x 276 mm. Materials: Zintec steel. Colour and finish: Polyester powder-coated, RAL. Integral accessories: SLB security lock with two keys.All as per Architects Specification N10/400	32	No			
				To Collection €		

	Description	Qty	Unit	Rate	€	c
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

Description	Qty	Unit	Rate	€	c
COLLECTION					
Page No. West/23/1					
Page No. West/23/2					
Page No. West/23/3					
Page No. West/23/4					
Page No. West/23/5					
Page No. West/23/6					
EL (76) STORAGE, SCREENING FITTINGS **Carried to Summary**					

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
El (19) SUBSTRUCTURE	West/1/22				
EL (21) EXTERNAL WALLS	West/2/9				
EL (22) INTERNAL WALLS	West/3/7				
EL (23) FLOORS, GALLERIES	West/4/7				
EL (27) (28) ROOF & FRAME	West/5/7				
EL (24) STAIRS, RAMPS	West/6/5				
EL (31) EXTERNAL WALL COMPLETIONS	West/7/27				
EL (32) INTERNAL WALL COMPLETIONS	West/8/8				
EL (33) & (34) FLOOR & STAIR COMPLETIONS	West/9/4				
EL (37) ROOF COMPLETIONS	West/10/5				
EL (41) WALL FINISHES EXTERNALLY	West/11/5				
EL (42) WALL FINISHES INTERNALLY	West/12/15				
EL (43) FLOOR FINISHES	West/13/6				
El (44) STAIRS FINISHES	West/14/5				
EL (35) & (45) SUSPENDED CEILINGS & FINISHES	West/15/5				
EL (47) ROOF FINISHES	West/16/10				
EL (59) MECHANICAL INSTALLATION	West/17/33				
EL (69) ELECTRICAL INSTALLATION	West/18/33				
EL (66) TRANSPORT INSTALLATION	West/19/6				
EL (--) BUILDERS WORK	West/20/6				
EL (73) CULINARY FITTINGS	West/21/4				
EL (74) SANITARYWARE & HYGIENE FITTINGS	West/22/4				
EL (76) STORAGE, SCREENING FITTINGS	West/23/7				

Description	Qty	Unit	Rate	€	c
SUMMARY	**Page No.**				
TOTAL AMOUNT TO TO MAIN SUMMARY					
West/1/1 - West/23/7 .					

SITE DEVELOPMENT WORKS

DOMESTIC VIOLENCE REFUGE (DVR)

					€	c
	(10) PREPARED SITE - DVR					
	INFORMATION					
A	This element of the work has been measured from Architects Drawing No 103 & 105 together with Engineers Drawings No's DR-C-0401, DR-C-0100 and Geodata Drawing20485-100 and Service's Engineer's Drawing M22 & E29		Note			
B	The Architects and Engineers Drawings and Specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to Specifications.		Note			
E	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata.		Item			
F	Rock is defined as any materials met with in excavation which is of such size or position that it can only be removed by means of wedges, special plant or explosives.		Note			
G	The Contractor is advised that all works within the Exclusion Zones around retained existing Trees on site must be done by hand. No mechanical digging etc. is permitted within these zones. Contractor is to include here for any additional costs carring out any of the works listed below within the Exclusion Zones. Existing retained trees are indicated on Architect's Drawings 103 & 105		Item			
	Vibration Monitoring					
H	Contractors are to allow for all vibration monitoring of adjoining properties and adjoining site boundary walls during demolition and piling works and are to allow here or elsewhere within their tender all all costs associated wiht same all in strict accordance with Engineers Specification		Item			
	<u>Carefully demolish, remove off site to an approved licensed tip the following:</u>					
J	Concrete footpaths, including sub-base under, overall 300mm thick	1,132	m2			

					€	c
A	Concrete steps to low level garden to rear of convent building, including sub-base under, overall 300mm thick, also including side walls to same, etc complete, overall 3,200mm x 3,000mm on plan	1	No			
B	Tarmacadam roadway/carpark areas including sub-base under; overall 450mm thick	330	m2			
C	Heavy duty PC Concrete kerbs/sub-base under (roads)	72	m			
D	Saw cut existing tarmacadam (in 2 No locations)	10	m			
E	Ditto concrete footpaths (in 2 No locations)	5	m			
	Ditto Works outside boundary of site, to public footpaths, & road etc. to Evergreen Street. Include for all necessary, traffic management, temporary sigange, walkways, lighting etc. complete.					
F	Concrete public footpaths, including sub-base under, overall 300mm thick	33	m2			
G	Tarmacadam public roadway areas including sub-base under; overall 450mm thick	83	m2			
H	Saw cut existing tarmacadam	46	m			
J	Ditto concrete footpaths (in 2 No locations)	6	m			
K	Extra over of carefully taking up and reinstating after existing manhole covers. Include for all necessary manhole adjustments, blockwork, etc. for new road / path level	4	No			
L	Ditto Road Gullys	2	No			
M	Ditto Public Road Signage	2	No			
N	Ditto Stopcock Access ChamberCover	2	No			
P	Allow for removal of existing thermoplastic line markings by thermal lancing to facilitate site entrance sight lines	78	m			
Q	Ditto last, disabled parking emblem	1	no			
	<u>Hack up and remove the following;</u>					
R	Abandoned foul and surface water drainage runs and all as indicated on Architect's and engineer's drawings	1	Item			
S	Ditto; watermain and fittings	1	Item			
				To Collection €		

					€	c
A	Ditto; Gasmain and fittings (refer to Service's Engineer's Drawing M22). Contractor to include for liaising with Board Gais before removal of underground gas pipe from site.	1	Item			
	Manholes including cast iron covers and frames; depth;					
B	1.00m - 2.00m	32	No			
C	SV / Hydrant chambers and covers	4	No			
D	Road gully, including cast iron grating and frame	7	No			
E	150mm x 150mm gully traps	25	No			
F	300 x 300mm AJ including riser and frame	5	No			
	Demolitions.					
	<u>Carefully take down, entirely demolish and remove all debris off site to an approved recycling facility the following:</u>					
G	Contractors attention is drawn to aspects of the demolition work in this contract with represent a Medium to High Risk with respect to the Safety, Health and Welfare at Work (Construction) (Amendment) Regulations 2013.		Note			
H	The following consists mainly demolition of attached/ isolated structures, together with removal of existing floor slabs, grubbing up all foundations, disconnection of all services as described etc. Before commencement of these works, the Contractor must submit to the Employers Representative/Engineer for their approval, a Method Statement detailing the sequence/phasing of the works including commencement date and duration of the works. Tendering contracts will be deemed to have included in their rates for all works deemed necessary in carrying out each work item to the entire satisfaction of the Employers Representative/Engineer.		Note			
J	Carefully demolish existing isolated single storey structure, size overall 6.50m x 5.00m x 7.70m high, composed of having slate hip canopy roof; with concrete block masonry walls, to 1 side and part of other 2 sides, include for hacking up floor slab and hardcore sub-base under, rising walls, grubbing up and sealing off of exposed drainage etc., and all as per Drawing 20485-100	1	No			
K	Ditto Timber garden shed, 2.50m x 3.00m x 3.00m high, complete	1	No			
L	Ditto Monument / Grotto within Lower level garden to rear of Convent Building, approx 2.00m high	1	No			
				To Collection €		

					€	c
A	Galvanized steel tubular gate, overall 3.00m wide x 2.10m high	1	No			
B	Concrete masonary piers to ditto approx 500mm x 500mm x 2,500mm high, including grubbing up foundations to same.	2	No			
C	Part of existing 215mm thick Concrete masonary boundary wall and attached pier, approx 2,200mm high, including for all necessay saw cutting, grubbing up foundations and reinstement of existing remaining boundary wall after demolition of short section of wall.	3	m			
D	Part of existing 500mm thick rendered masonary wall to Sunken Garden, approx 1,500mm high, including for all necessay saw cutting, grubbing up foundations and reinstement of existing remaining garden wall after demolition of short section of wall.	6	m			
E	Part of existing 250mm thick rendered masonary wall to Sunken Garden, approx 2,000mm high, including for all necessay saw cutting, grubbing up foundations and reinstement of existing remaining garden wall after demolition of short section of wall.	15	m			
F	Wire fence within hedgegrow, including postes etc complete, approx 2,000mm high	10	m			
G	Decommission, strip out and disposal off site of existing PVC Oil Storage Tank. Include for all necessary emptying of oil tank of all its, contents. Include also for breaking up and disposing concrete base to tank, and grubbing up oil feed pipe to existing convent building. complete. Approx Tank Size; 2,0m diameter x 3.0m high	1	No			
H	Timber ESB Poles, after desconnection of power by ESB	2	No			
J	Contractor to review location of site compound and where power supply will be fed from. Pole indicated on Service Engineer's Drawing E29 could be retained or moved to the edge of the site for contractor's connection and removed on completion of the project.		Item			
	<u>Excavation and Earthwork: Excavation</u>					
	<u>Starting Levels</u>					
K	The starting level for excavation measurement is the existing ground level.		Note			
				To Collection €		

					€	c
	Excavation					
	Removing, including roots and backfilling after in suitable excavated material.					
	Trees					
A	<0.45m girth	3	No			
B	0.45-1.5m girth	4	No			
C	Tree stumps, including roots	5	No			
	Hedges					
D	Generally	224	m			
	Site vegetation					
E	Generally	4,798	m2			
F	Extra over within sunken garden area to rear of Convent Building	485	m2			
	Excavation					
	Topsoil					
G	Average depth 300mm	4,798	m2			
H	Extra over within sunken garden area to rear of Convent Building	485	m2			
	Reduce levels					
J	Depth < or = 2.00m	2,290	m3			
	Extra on excavation items for:					
K	Excavating around existing services, parallel / next / alongside excavations	20	m			
L	Excavating around existing services, crossing excavations; ESB	5	No			
M	Excavating around existing services, crossing excavations; Eircom	5	No			
N	Excavating around existing services, crossing excavations; Watermain	5	No			
P	Excavating around existing services, crossing excavations; GAS	5	No			

To Collection €

					€	c
A	Excavating around existing services, crossing excavations; Foul	5	No			
B	Excavating around existing services, crossing excavations; Surface	5	No			
C	Next to existing Stone Boundary Walls; Include for all necessary temporary props etc.	39	m2			
D	Next to existing Masonary Boundary Walls; Include for all necessary temporary props etc.	89	m2			
E	Next to existing Steel Boundary Fence; Include for all necessary temporary props etc.	33	m2			
F	Next to existing Boundary Railing (approx. 2m deep excavtion); Include for all necessary temporary props etc.	22	m2			
G	Next to existing Neighbouring Residential Building (approx. 2m deep excavtion); Include for all necessary temporary props etc.	36	m2			
H	Next to existing Neighbouring School Building (approx. 2m deep excavtion); Include for all necessary temporary props etc.	46	m2			
	<u>Disposal</u>					
	Water					
J	Surface Water		Item			
K	Ground water		Item			
	Topsoil					
L	Topsoil kept on site; for later re-use (Landscaping)	94	m3			
M	Off site to a tip to be provided by the Contractor	1,346	m3			
	Excavated material; Unsuitable					
N	Off site to a tip to be provided by the Contractor	2,290	m3			
				To Collection €		

					€	c
	DISPOSAL OF EXCAVATED MATERIALS					
A	'Contractor to allow for additional waste classification testing for all soils to be removed off site. 8 No. composite samples to be recovered following mobilisation and waste classification testing to be undertaken on each sample by a UKAS or INAB accredited laboratory. Each sample to be tested to firstly determine if there are any hazardous properties present as required under the Waste Framework Directive. The locations and depths for these samples are to be co-ordinated with PUNCH Consulting Engineers. There are 2 results available: Hazardous Non- (not) hazardous		Item			
B	This is to be determined by assessing the total pollutant content via the HazWasteOnline reporting software. Further to this, Waste Acceptance Criteria (WAC) testing is to be undertaken on each sample to determine how the waste will behave once its buried in a landfill. This is to be carried out primarily through analysis of leachate derived from that waste during laboratory analysis. There are 3 results available: Inert Non-hazardous Hazardous		Item			
C	These should be determined by comparing the leachate results to the Waste Acceptance Criteria for landfilling of waste. Prior to removal of all soil material from the site, the contractor is to ensure that the Waste Receiver is appropriately licenced to receive the material. This should involve obtaining a letter of acceptance from the Waste Receiver. The contractor should allow a 2 week period in their programme for detailed soil classification testing prior to any bulk removal of soil from the site. The contractor should also allow for the segregation of soil waste into different categories (i.e. inert/non-hazardous/hazardous) in accordance with the quantities provided in their tender		Item			
	Disposal Excavated Material; Unsuitable; Off site as per above described and extra over provisions contained in the main pricing document					
	Extra Over on bulk excavations for:					
D	Bulk dig inert soil; waste code 17 05 04	2,898	m3			
E	Non-hazardous soil; waste code 17 05 04	492	m3			

To Collection €

					€	c
A	Hazardous soils; waste code 17 05 03	123	m3			
B	Construction waste and demolition waste; waste code 17 01 07	123	m3			
	Extra Over on general excavations for:					
C	General excavations dig inert soil; waste code 17 05 04	2,593	m3			
D	Non-hazardous soil; waste code 17 05 04	415	m3			
E	Hazardous soils; waste code 17 05 03	104	m3			
F	Construction waste and demolition waste; waste code 17 01 07	104	m3			
	Imported Filling;					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
	To make up levels under buildings					
G	Granular Fill in accordance with SR21 Annex E. 2. >250mm	241	m3			
	Imported material; selected granular fill to Class 6C of table 6/1 of the TII specification for roadworks; compacting in 225mm thick layers					
	To make up levels under roads / paths					
H	Average thickness > 0.25m	1,972	m3			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
J	Testing		Item			
K	Surveys		Item			
L	Samples		Item			
M	Warranties		Item			
				To Collection €		

					€	c
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

To Collection €

				€	c
COLLECTION					
Page No. DVR SDW/1/1					
Page No. DVR SDW/1/2					
Page No. DVR SDW/1/3					
Page No. DVR SDW/1/4					
Page No. DVR SDW/1/5					
Page No. DVR SDW/1/6					
Page No. DVR SDW/1/7					
Page No. DVR SDW/1/8					
Page No. DVR SDW/1/9					
(10) PREPARED SITE - DVR **Carried to Summary**					

					€	c
	(20) SITE STRUCTURES - DVR					
A	This element of the work has been measured from Structural Engineers Drawing DR-S-4030 together with Architects Drawing 909		note			
B	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		note			
C	For detailed description of workmanship and materials the contractor is referred to the works requirement document entitled "Concrete Specification" prepared by the Structural Engineer.		note			
D	For details of ground conditions refer to the Ground Investigation Report and Bore Hole Data included with the tender documentation		note			
E	For details of underground services refer to the Works Requirements		note			
	REFUSE STORE					
	SUBSTRUCTURE					
F	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
G	Excavation through imported hardcore fill is to be carefully set aside and stored for re-use or spread and levelled on site where directed by the Engineer		note			
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
H	generally		item			
	Excavation					
	Excavation					
	Foundation Trenches					
J	depth < or = 2.00m	45	m3			

To Collection €

				€	c
	Additional excavation below underside of strip foundations to good bearing strata				
A	Depth < 2.00m deep	69	m3		
	Soft Spots				
	Excavate in soft spots where directed; backfill with in-situ concrete grade C16/20 to IS EN 206-1; disposal of excavated material off site; classification of soft spots shall be ascertained by the Engineer and shall not occur due to abuse of formation level				
B	depth < or = 2.00m	10	m3		
	Extra over excavating trenches irrespective of depth				
C	Excavating around existing services, parallel / next / alongside excavations	5	m		
D	Excavating around existing services, crossing excavations	3	No		
	Disposal				
	Water				
E	Surface		Item		
F	Ground		Item		
	Excavated material				
G	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	114	m3		
	Working Space Backfill with imported Annex E				
H	Foundation depth < 2.00m	74	m2		
				To Collection €	

					€	c
	Filling;					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
	To make up levels					
A	Granular Fill in accordance with SR21 Annex E. 2. >250mm	9	m3			
B	"Annex E of SR21" Backfill to foundation; >250mm	20	m3			
	Surface Treatments					
C	60mm thick sand/non-angular granular material blinding laid on barrier	28	m2			
	CONCRETE WORK: In-Situ Concrete					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
D	generally		Item			
	Blinding					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Blinding					
E	Trench fill under strip foundations to good bearing strata	69	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
F	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	14	m3			

To Collection €

					€	c
A	Beds (Floor Slab); >150mm thick; reinforced; laid on DPM on blinded hardcore	7	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1 and BS 8500-2.; compressive strength class C30/37; maximum aggregate size 20mm; exposure classes XC1; poured into cavity between blockwork leaves and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification 132 for concrete and Architects specification F30/110					
B	Cavity infill; >150mm	3	m3			
	CONCRETE WORK: Sundries					
	Isolation Joints (IJ)					
	Perimeter of concrete slab isolation joint; underslab insulation; type: agrement certified for use under ground bearing slabs; Thickness 20 mm; Compressive strength (minimum) 140 kPa at 10% compression; Thermal conductivity (maximum) 0.022 W/(mK);30mm thickal to Architects specification clause E20/215; form 20 x 12mm surface groove in in-situ concrete floor slab, to be filled with two part polysulphide seal; forming joint between floor and wall all in accordance with the Works Requirements and Architects specification clause E20/215					
C	Verticle; Depth 150-300mm	41	m			
	Surface finishes					
	Powerfloating					
D	To falls & Cross falls	28	m2			
	CONCRETE WORK: Reinforcement					
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
E	Horizontal; Strip Foundations	46	m2			

To Collection €

					€	c
	Reference A393; 3.95 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
A	Horizontal; Suspended Floor Slab	28	m2			
	CONCRETE WORK: Formwork					
	Formwork - Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification					
	Sides of Foundations					
B	Height 300mm - 500mm	76	m			
	Edges of beds					
	Height < or = 250mm					
C	generally	7	m			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Rising Walls					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
D	100mm thick	9	m2			
E	215mm thick	13	m2			
F	440mm thick	14	m2			
	Labours					
	On blockwork					
G	generally		item			

To Collection €

				€	c
	Forming cavities				
	Full fill cavity insulation to external cavity wall; 100mm wide cavity; WALL TIES: Double triangle type or other equal or equivalent stainless steel wall ties complying with IS EN 845-1:2013 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings, all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause F30/150A				
	Between new walls				
A	100mm wide	9	m2		
	Radon Barrier				
	Waterproofing/ damp-proofing/ gas-retardant membrane Under slab. To IS EN 15814 + Agrement-certified. Number of layers: As per manufacturers guidelines. Thickness/ gauge: As per manufacturers guidelines. Bonding: Horizontal surfaces loose-laid; vertical surfaces spot-bonded with adhesive. Surfaces to be joined: Clean and dry beyond the full width of the joint. Laps (minimum): Side and end laps, 300 mm with double row tapes - unless otherwise specificed by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Properties: Tensile strength: >600N/50mm. Tear Resistance: >425N. Elongation: <19%. Moisture Vapour Transmission: <0.2 g/m2/day. Water Vapour Resistance: >1024MNsg-1. Radon Gas Transmittance: 17x10-9 m/s-1. Radon Gas Permeability: 7 x 10-12 m2/s. All in accordance with the Works Requirements and Architects specification clause J40/297/A; Seal at joints to architects specification with 150mm laps with adhesive recommended by manufacturer sealed at joints with in accordance with the manufacturer's written instructions				
	Radon Barrier				
	Width > 300mm				
B	Horizontal	39	m2		
	Width < 300mm				
C	Vertical (sealed to face of existing building per Architect's detail 02/300	25	m		

To Collection €

				€	c
	DPC / Cavity Trays				
	Gas resistant DPCs / Cavity tray; Product to have Agrement Certification, and to meet the following performance characteristics; Material Type: Virgin blend LDPE; Thickness: 500 microns; Radon Permeability: 7.9 x 10-12 m2/ s; Tensile strength >350N/50mm; Weight: 460 g/m2; Tear Resistance >200N; MVTR : <0.3 g/m2/day; all in accordance with the Works Requirements and Architects specification clause J40/140A; Seal at joints to architects specification F30 /360A with 150mm laps fully bonded with adhesive recommended by dpc manufacturer and sealed at joints with in accordance with the manufacturer's written instructions				
A	Width < or = 225mm; horizontal	38	m		
B	Width >225mm; To base of blockwork cavity and dressed up, over and down 225mm high blockwork as per architects drawing 337/E/001 ref Radon DPC (1) (overall girth approx.1025mm); fully bonded and sealed to horizontal radon barrier all as before described	12	m2		
C	Extra over for sealed tape in fixing to blockwork	25	m		
	"Monarflex radon resisting membrane RMB 400" top hat units with clips; fully bonded and sealed at joints in accordance with the manufacturer's printed instructions				
	Collars around pipes, standards and the like				
	Diameter				
D	< or = 110mm	3	No		
	Non perforated gas collection pipes; Manufacturer:Contractor to submit proposals; Product to have Agrement Certification, for proposed purpose.; Material: High-density polyethylene (HDPE), non perforated with ring seals joints to BS EN 681-1; Outside diameter size: 110 mm. all in accordance with the Works Requirements and Architects specification clause J21/110 & 340 and installed as per J21/660				
	Pipes				
	110mm diameter				
E	In trenches (Provisional)	10	m		
	Extra over pipes on which they occur for				
F	Bends; 87.5 degrees	2	nr		

To Collection €

					€	c
A	Radon duct capping detail; at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm	2	nr			
	Plastic Depressurisation sumps; Manufacturer: Contractor to submit proposals; Product to have Agrement Certification, and must fulfill the following performance requirements: Material: Medium Density Polyethylene.; Diameter of the open base: 283.5 mm; Overall Depth: 149 mm; Short Term Creep Test: Mean deflection at 480N is 6.96mm; Compression Test Result: Mean deflection at 10,260N = 27.33mm; Ground level Termination: System capping detail, at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm; all in accordance with the Works Requirements and Architects specification clause J21/110 & 370A and installed as per J21/635A					
	Chambers					
B	Sump & Sump Cap-Link	1	nr			
	Drainage Channels					
	Drainage channel system with 100mm wide grating; Product to conform to the following performance criteria: CE marked and fully certified to Load Class B125 per BS EN 1433:2002; Channel drain system with stainless steel edge rail.; Fall Constant invert; Overall Depth: 100mm; Grating: Ductile iron with high heel protection; Loading grade to BS EN 124: Load class B125; Other requirements: Including all accessories as required per manufacturer's best practice installation - sumps, end caps etc. bedded in haunched concrete overal size 170 x 150mm high including all nessessary formork; all in accordance with the manufacturers instructions and Architects specification and architects drawing					
	Including all drain unions, ends, outlets etc.					
C	overall length 1150mm	1	nr			
D	overall length 2000mm	1	nr			

To Collection €

				€	c
	EXTERNAL & INTERNAL WALLS				
	Precast Concrete				
	Precast concrete units; Contractors choice to submit for approval; Components manufacturer's 'proprietary' concrete; to B.S. 8500-2; building into existing masonary walls, ainclude for all necessary reinstatement, bedding in gauged mortar (1:1:6); as per Engineers specification and Architects detail 02 & 05 in drawings 314 and specification				
	Cills smooth finish; 180mm deep x 80mm high, lengths as per window / door opes with each side to be stepped into reveal; Include for wrapping with all necessary polyethene DPC damp proof courses and / or cavity trays to BS6515. Include for all neccesary insulation, concrete backing etc complete, all as per Architects drawings & specification				
A	Door Threhold 1,300mm wide	3	No		
B	Door Threhold 2,050mm wide	1	No		
	Prestressed Concrete Lintels bedded in approved sand cement mortar; all in accordance with Architects Specification & Engineers Specification				
	Include for all temporary propping until blockwork over is mature in accordance with the manufacturers instructions				
C	(L4) 215 x 215mm	10	m		
	Prestressed Concrete Parapet Capping bedded in approved sand cement mortar; include for DPC etc complete, all in accordance with Architects Specification & Engineers Specification. Size				
D	480mm wide x max 140mm high, all per Architect's drawing 909	30	m		
E	Ends	1	No		
F	Mitres / Corners	4	No		

To Collection €

				€	c
	PREFABRICATED STEEL LINTELS:				
	Prefabricated Steel Lintels, to IS EN 845-2. Galvanised Steel. Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. - To be installed in accordance with manufacturers recommendations. Deflection limits, Combined: L/200. Live only: L/360. Refer to Structural GAs for lintel sizes. S/K and HD/K refer to Keystone lintels similar and approved can be submitted. Refer to architectural drawings for U-value requirements. Apex lintel: STXAP/K-150 Stepped apex lintel 35degree pitch, 350mm wall, 450mm step, no wire. Heavy Duty Steel Lintel with Steel plate bottom. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication				
	Lintels to suit cavity wall construction (consisting of 100mm outer leaf, 100mm cavity and 215mm inner leaf)				
A	Proprietary masonary support / relieving angle suitable for 100mm cavity (4location)	8	m		
	BLOCKWORK & BRICKWORK				
	Brickwork				
	Clay facing brickwork Type A - 'White Brick'. Handmade, fired clay, facing brick with sanded finish. Vandersanden or equivalent, Lima 124A0 or equivalent bricks: to IS EN 771-1. Bricks to be cut on site as required to site brickwork setting out on architectural drawings. Mortar: Lime mortar as section Z21 to IS EN 998-2. Mix: Moderately hydraulic HLM3.5. Bond: Half lap stretcher, Joints Flush. All per Architect's Specification F10-110A				
	Walls				
B	100mm thick	90	m2		
	Labour on Brickwork				
C	Generally		Item		
	Blockwork				
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification				
	Inner Leaf of External Walls, Fair faced pointed finish to inner face				
D	225mm thick	90	m2		
				To Collection €	

					€	c
	Internal Walls Fair faced pointed finish to both faces					
A	225mm thick	21	m2			
	Bedjoint Reinforcement					
	Provide 3 courses of GBF 35 W60 SC brickforce (or equivalent) reinforcing to horizontal bed joints directly above ope. Extend minimum 750 beyond ope size, all per Engineer's Specification, to;					
B	100mm brickwork	12	m			
	Weep Holes					
	Supply and fit Perpend joint plastics weep holes; Beak weep with reduced front section (beak shaped), transparent, all per Architect's specification and drawings					
C	Fitted through outer leaf immediately above base of cavity, at cavity trays, stepped dpcs, and external openings. 75 mm above top of concrete fill at base of cavity. Spacing (maximum): At not greater than 900 mm centres and not less than two over each opening.	30	m			
	Forming cavities; All Caviity Walls to be tied using suitable S/S wall ties. Ties shall be bedded into the bed joint of brick leaf by not less than 50mm, and shall be spaced in accordance with BS EN 845: Part 1, BS EN 1996 and BS 8000: Part 3. Additional ties shall be provided to sides of openings in accordance with BS EN 1996, as per Engineers & Architect's drawings and Specifications					
	Forming cavities; between new Blockwork Inner Leaf and Brickwork Outer leaf					
D	100mm wide	90	m2			
	Cavity Closer					
	Propritary Cavity Closer to head and reveals of door ope, complete all in accordance with Manufacturer's Recommendations and all per Architect's Drawings & Specification.					
E	To 100mm wide Cavity, with blockwork inner leaf, brick outer leaf	24	m			

To Collection €

				€	c
	Copolymer thermoplastic DPC damp proof courses and / or cavity trays, all per Architects specifications F30				
	Girth > 300mm				
A	Horizontal	20	m2		
	Girth < 300mm				
B	Vertical	19	m		
	FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishings				
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall				
	To blockwork base; 25mm thick; to walls and piers; generally				
C	> 300mm	9	m2		
	PAINTING AND DECORATING: Painting				
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60				
	To walls; dry dash plaster base				
D	> 300mm wide	9	m2		
	To walls; Pointed Blockwork				
E	> 300mm wide	91	m2		
F	< 300mm wide	30	m		
	Wire Mesh				
	Supply and fix wire mesh frame for climbing plants. approx 2.25m high. fixed to face of brick wall, all per Architect's drawing 909 and Specification Q31/216				
G	Suitable stainless steel wire trellis in pattern indicated on drawings (Architectural 908 and 909)	53	m2		
				To Collection €	

				€	c
	ROOF				
	Reinforced concrete grade C32/40; filling into formwork; tamped around reinforcement all as per Engineers concrete specification:				
	Roof Slab				
A	225mm thick	8	m3		
	Non structural concrete screed laid on concrete roof deck. Include for praparing existing deck to recieve new screed; grade C32/40; laid to falls and crossfalls; as per the Engineers Drawings and Specification and Architect's Specification M10/670				
B	floating screed; average depth 75mm thick with a minimum depth of 50mm and maximum of 100mm as per Architects Drawings	3	m3		
	Reinforcement				
	Bar reinforcement; all in compliance with Engineers Concrete Specification Section E30; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers drawings and Specification				
	Mesh				
C	A393 Mesh	68	m2		
	Formwork				
	Wrot formwork as described to Engineer's specification to : -				
	Soffit of Roof Slab				
D	> 300mm wide	29	m2		
	Sides of Roof Slab				
E	< 300 mm wide	26	m		
	Surface Finishes				
F	Float concrete finish to Roof Slab	34	m2		
G	Float concrete finish to screed to falls	29	m2		

To Collection €

					€	c
	Built-up reinforced bitumen membrane cold deck roof covering Waterproof covering; Underlayer: Bauder G4E, OR equivalent, 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced. Fire Classification: Roof buildup is required to achieve BroofT4 - provide test certificates to match specific buildup. Include for all necessary Surface protection. Include also for all necessary accessories: Angle fillets, as clause 335, Perimeter trims, as clause 345, Pipe collars, as clause 480. Etc. Overall roof build up to achieve BROOF(t4), in accordance with BS EN 13501-5. Allow for to achieve falls as per architectural drawings. All in accordance with Architects Drawings and Specification Section J41/130 & 430 Laid to falls and cross falls on Concrete deck (elsewhere measured)					
A	> 300mm wide	29	m2			
B	Vertical upstands to parapet compliance with Part L of the current Building Regulations. Include for support brackets, roof fininish to extend in under parapet coping (elsewhere measured) etc. complete, all as per Architect;s Drawing 909	25	m			
C	Form Gutter 350mm wide	9	m			
D	Form watertight Rainwater outlets through reinforced concrete deck. Include for all necessary flashings , expanding foam, sealing, bends with roding eye, etc complete all per Architect's Drawing	1	no.			
E	Form watertight Rainwater outlets through 440mm wide cavity parapet wall with brick outer leaf. Include for all necessary flashings , expanding foam, sealing, bends with roding eye, etc complete all per Architect's Drawing	1	no.			
	Air and Vapour control layer to Architect's spec. J41/395					
F	> 300mm wide	29	m2			

To Collection €

					€	c
	Stone Ballast					
	Supply and fit Pebble Stone ballast. Rounded river washed pebbles. Size: 5-30mm. Depth:: minimum 50mm. Colour: white/silver grey. All per Architect's Drawing 909 and SpecificationJ41/460					
A	70mm deep	29	m2			
	Drainage					
	PVC-U pipework internal pipework and fittings, to ISEN 1329-1 or BS 4514, Kitemark-certified. Nominal size: DN110. Brackets: PVC-U clips, black. Fixings: Stainless steel screws. including all required fittings, bends, branches and accessories; brought down within building; all as per Architects drawings and Specification					
B	Downpipe 110mm Diameter	3	m			
C	Extra; bends	2	no			
D	Flat roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in flat roof inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	1	no			
	Builders Work					
	The Contractor is to allow for all Builders Work Requirements in respect of the rainwater downpipes inclusive of all cutting, forming holes and the like; all as per Architect's Drawings and Specification.					
E	builders work;		Item			
	Electronic Roof Integrity Test to all Roof Areas					
F	Electronic roof integrity test; all as per Architect's Drawings and Specification Section J41/920		Item			
				To Collection €		

					€	c
	Metal Doorsets Plant Room Highly insulated aluminium doorset for plant rooms. Outward swinging double doors. Fire resistance: EI60Sa in accordance with IS EN 13501-2. Fire performance. Fire resistance: EI60. Smoke leakage: Sa. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB.. Thermal performance (U-value maximum): 1.6 W/m2K. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627-EN(V)1630. Watertightness: Up to 600 Pa (class 3). Air permeability: Up to 300 Pa (class 7A). Resistance to wind load: Up to 800 Pa (class C2). Door leaf. Material: Anodized Aluminium - to match finish as clause L10/410. Type: Flush panel. Frame. Material: Anodized Aluminium - to match finish as clause L10/410. Threshold: Flat aluminium with brush seal. Ironmongery: Handles: Shield handles, natural anodized. Access control: Mortice lock with key and thumb-turn internally. Heavy duty hinges. Perimeter seals: Fire and smoke seal + EPDM weatherseal. Other requirements: Flush threshold drain with lapping DPC/EPDM on exterior side connected to surface water drainage network. Fixing: As per manufacturer's guidelines. Warranty: Ten year. Verification. Submittals etc. complete: Include for Airtight Seals/ Tape and foam as per Specification and as shown on drawings. Include also for all Mastic Pointing, EPDM, mineral wool packer, to perimeter of frames. Include for all necessary fixings to existing masonary wall. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and Door schedules [dwg 606 and as per Architects specification clauses L20A specifically L20A/485; and all in accordance with the manufacturers instructions. Composite External Doorset					
A	Type DK- Single Doorset size overall 1300mm wide x 2250mm high	3	nr			
B	Type DL- Double Doorset size overall 2030mm wide x 2250mm high	1	nr			
	Composite Internal Doorset					
C	Type DK- Single Doorset size overall 1300mm wide x 2250mm high	1	nr			

					€	c
	ESB SUBSTATION PLINTH AND WALLS					
	SUBSTRUCTURE					
A	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
B	Excavation through imported hardcore fill is to be carefully set aside and stored for re-use or spread and levelled on site where directed by the Engineer		note			
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
C	generally		item			
	Excavation					
	Excavation					
	Foundation Pit					
D	depth < or = 2.00m	8	m3			
	Additional excavation below underside of strip foundations to good bearing strata					
E	Depth < 2.00m deep	13	m3			
	Extra over excavating trenches irrespective of depth					
F	Excavating around existing services, parallel / next / alongside excavations	3	m			
G	Excavating around existing services, crossing excavations	1	No			
	Disposal					
	Water					
H	Surface		Item			
J	Ground		Item			

To Collection €

				€	c
	Excavated material				
A	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	21	m3		
	Working Space Backfill with imported Annex E				
B	Foundation depth < 2.00m	11	m2		
	CONCRETE WORK: In-Situ Concrete				
	Concrete Cube Tests				
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification				
C	generally		Item		
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Blinding				
D	Trench fill under strip foundations to good bearing strata	13	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
E	Foundations (Pad); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	7	m3		
F	Beds 200mm thick; Reinforced, poured against formwork sides and on earth or unblinded hardcore; Reinforced	1	m3		
G	Wall 200mm thick; reinforced;	1	m3		
	Extra Over for;				
H	Casting 120mm dia PVC Ductes into 915mm thick reinforced concrete slab.	8	No.		

					€	c
	Surface finishes					
	Powerfloating					
A	To falls & Cross falls	28	m2			
	CONCRETE WORK: Reinforcement					
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
B	Horizontal; in Pad / Slab	17	m2			
C	Verical In Walls	2	m2			
	CONCRETE WORK: Formwork					
	Wrot formwork as described to Engineer's specification to : -					
	Sides of Foundations					
D	Height > 500mm	10	m			
	Edges of beds					
	Height < or = 250mm					
E	generally	4	m			
	Sides of Walls					
F	>300mm wide	2	m2			
G	<300mm wide	2	m			
	Kicker					
H	Walls	1	m			

				€	c
	WALLS				
	Precast Concrete				
	Precast concrete units; Contractors choice to submit for approval; Components manufacturer's 'proprietary' concrete; to B.S. 8500-2; building into existing masonary walls, ainclude for all necessary reinstatement, bedding in gauged mortar (1:1:6); as per Engineers specification and Architects detail 02 & 05 in drawings 314 and specification				
	Prestressed Concrete Parapet Capping bedded in approved sand cement mortar; include for DPC etc complete, all in accordance with Architects Specification & Engineers Specification. Size				
A	300mm wide x 100mm high, all per Architect's drawing 909	12	m		
B	Ends	2	No		
C	Mitres / Corners	4	No		
	BLOCKWORK & BRICKWORK				
	Blockwork				
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 13.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification				
	Walls, Fair faced pointed finish to inner face				
D	225mm thick	29	m2		
	Copolymer thermoplastic DPC damp proof courses and / or cavity trays, all per Architects specifications F30				
	Girth < 300mm				
E	Horizontal	12	m		
	FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishings				
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall				
	To blockwork base; 25mm thick; to walls and piers; generally				
F	> 300mm	29	m2		
G	< 300mm	5	m		

To Collection €

				€	c
	PAINTING AND DECORATING: Painting				
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60				
	To walls; dry dash plaster base				
A	> 300mm wide	29	m2		
B	< 300mm wide	5	m		
	To Concrete Coping				
C	> 300mm girth	7	m2		
	GATES				
	External gates; shall be fabricated from mild steel hot dip galvanised after fabrication with welds ground smooth, including all necessary site welding; shot blast clean steel members and apply Blast Primer to a dry film thickness of 20 microns and Holding Primer to a dry film thickness of 50 microns at works. Include also for powder coat finish to selected colour; include for all as indicated on Architects plans, elevations and as per Architects Specifications and to match railings				
	Single gate - composed of 60 x 40 x 3mm framing to four sides, infill with 2 no. 40 x 40mm RSA horizontal mid-rails, and 40 x 10mm solid vertical Flats at 95mm centres; hinges galvanised mild steel hinge lug shaped as shown on plan and welded to gate framing. Hole for hinge. 2 no. lockable latchs, 2no 6mm flat plate, push plate welded in-between flat uprights. 10mm dia. hole through catch and back plate for padlock. 2no drop bolts, fixed to box framing, include for all necessay latches, hinge spigots fixed to rendered masonary wall, brackets, catches, all to have powder coat finish, etc. complete, all as per Architects Drawing 356 and specification; size				
D	Overall 1,200mm wide x 2,200mm high	1	No		

					€	c
	External Clothes Drying Racks					
	Supply and fix External Clothes Drying Racks to Drying Area to East of DVR. Provide 4 no. racks - with 2 tiers each. Wall fixed. Material: Galvanised and powdercoated steel Include for reinforced Concrete foundations to posts, including all necessary fixings, brackets, etc complete all as per Architect's drawing 909 and Specification Q50/330. Size;					
A	2 tier rack, 1,000mm long x 550mm deep	4	No			
	PERGOLA					
	Supply and fix Pergola; Bespoke joinery item, Contractor design item to confirm framing sizes with Solid Iroko Frame, supported on suitable Stainless steel support. Include for reinforced Concrete pad foundations to posts, including all necessary excavation, concrete, mesh reinforcement, and imported hardcore backfill. Verification: Submittals: Provide calculations and Shop Drawings. Provide sample of timber - min 600mm x 150mm. Include for finish: Clear sealer for weathering, all necessary fixings, brackets, reinforced concrete footings, etc complete all as per Architect's drawing and Specification Q40/200. Overall Size;					
B	14,000mm long x 3,500mmwide x 3,640mm high	1	No			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

				€	c
COLLECTION					
Page No. DVR SDW/2/1					
Page No. DVR SDW/2/2					
Page No. DVR SDW/2/3					
Page No. DVR SDW/2/4					
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Page No. DVR SDW/2/20					
Page No. DVR SDW/2/21					
Page No. DVR SDW/2/22					
(20) SITE STRUCTURES - DVR Carried to Summary					

					€	c
	(30) SITE ENCLOSURES - DVR					
A	This element of the work has been measured from Architects Drawing No. and Engineers Drawing No.		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	For detailed description of workmanship and materials see specification.		Note			
D	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	WORKS TO EXISTING BOUNDARY WALLS					
	Builders Work to Boundary Wall					
	Clearing					
E	Contractors to carefully clean off and remove all existing vegetation growth from existing rubble stone boundary wall to the North Boundary. (Approx 130m long). Include for disposing all removed vegetation growth off site.	1	Item			
F	Ditto to Renderd Stone wall to Sunken Garden to back of Convent (Approx 65m long)	1	Item			
G	Ditto to Masonary boundary walls to West and South (Approx 170m long). Clean face of blockwork wall and capping and leave ready for new decoration (elsewhere measured)	1	Item			
H	Contractor should carry out full visual survey of all existing Boundary & Garden walls when vegetation is cleared, Drawings to be provided by contractor to Design Team for comment.	1	Item			
	Repair Works to Existing Sunken Garden Wall					
J	Carefully Hack off existing plaster / render off existing garden wall and repoint where neccessary. to existing sunken garden to rear of convent. Following the removal of render and the carrying out of any necessary masonry repairs and raking and repointing of existing masonary walls. Leave face of wall ready to recieve new plaster / render (elsewhere measured), Include for all necessary saw cutting etc. complete, all per Conservation Architect's specification section 3.17 & 4.5	260	m2			
K	Ditto concrete capping to garden wall	65	m			
				To Collection €		

				€	c
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall				
	To Existing Masonary base after removal of existing render; 25mm thick; to walls and piers; generally				
A	> 300mm to face of wall	260	m2		
B	Form new 500mm wide reinforced concrete arched capping to existing stone wall, to match existing. include for all necessary formwork, concrete, rebar, DPC, hand trowel finish. etc complete.	65	m		
	Sundries				
	Stainless steel beads, as per Architects Specification M20				
C	Angle bead	25	m		
	Painting				
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60				
	To dry dash plaster base				
	To Garden walls; generally				
D	> 300mm to face of wall	260	m2		
E	> 300mm to arched capping of wall	33	m2		
	To Face of Existing Blockwork Boundary Wall				
F	> 300mm to face of wall	374	m2		
G	< 300mm wide	179	m		
	Works to Stone Boundary Wall to North, average 2,000mm high. All per Architect's Drawings and Specification				
	Include for the following works to be carried out by a suitable Specialist Sub-Contractor				
H	Clean out existing mortar to joints and Repoint rubble stone boundary wall in lime mortar,	390	m2		
J	Ditto Rubble Stone Capping to Wall approx 400mm wide	130	m		
				To Collection €	

					€	c
	RETAINING WALL - B					
	EXCAVATION AND EARTHWORK: Excavation					
	Excavation					
	Foundation Trench					
A	Average depth; < 2.00m	122	m3			
	Extra on excavation items irrespective of depth for					
	Extra over excavating trenches irrespective of depth					
B	Excavating around existing services, parallel / next / alongside excavations	30	m			
C	Excavating around existing services, crossing excavations; ESB	5	No			
D	Excavating around existing services, crossing excavations; Eircom	5	No			
E	Excavating around existing services, crossing excavations; Foul	5	No			
F	Excavating around existing services, crossing excavations; Surface	5	No			
G	Next to existing Stone Boundary Walls; Include for all necessary temporary props etc.	41	m2			
	Working space excavation; Backfill with imported Annex E; deposited in layers 150mm thickness; compacted by mechanical means					
	Working Space Backfill with imported Annex E					
	Foundations					
H	depth <2.00m	41	m2			
	Disposal					
	Water					
J	Surface		Item			
K	Ground		Item			

To Collection €

		Qty	Unit	Rate	€	c
	Excavated material					
A	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	122	m3			
	<u>Filling;</u>					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; average thickness					
	Filling					
	To make up levels					
B	"Annex E of SR21" Backfill to foundation; >250mm	62	m3			
C	"Annex E of SR21" Backfill to foundation; to underside of ramp	72	m3			
	CONCRETE WORK: In-Situ Concrete					
	Blinding					
	<u>In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete</u>					
	Poured on or against earth or unblinded hardcore					
D	under strip foundations to good bearing strata	8	m3			
	<u>In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete</u>					
E	Strip Foundations; Poured against formwork sides and on leanmix fill; Reinforced	43	m3			
	Walls					
F	Walls; >150mm; Reinforced.	47	m3			
					To Collection €	

					€	c
	Surface finishes					
	Steel Trowel finish to top of wall					
A	horizontally <300mm wide	98	m			
	CONCRETE WORK: Reinforcement					
	Bar					
	<u>High yield steel bar reinforcement; hot rolled deformed high yield steel bars to shall comply with BS EN 10080 and BS 4449 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30</u>					
	Straight or bent					
B	< 12mm diameter	9.00	tonne			
C	12 - 25mm diameter	9.00	tonne			
	CONCRETE WORK: Formwork					
	<u>Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification E20 610</u>					
	Sides of Foundations					
D	Height = or < 300mm	54	m			
	Walls, > 2.00m high					
E	> 300mm wide wide	463	m2			
F	< 300mm wide wide	1	m			
	Extra Over ditto;					
G	Permanent formwork against existing stone boundary wall	119	m2			
H	Fairface finish to Face of Concrete wall, all to Architect's Specification	224	m2			
	Labours					
J	Form 75mm diameter Weep Holes in 300mm Reinforced Concrete Wall @ 2,000mm centres	48	no			
				To Collection €		

					€	c
	New to Existing Foundation Connection					
A	400mm long H10 steel dowel bars, having one end set into side of existing reinforced concrete foundation with Hilti Hit-Hy Resin or equivalent; include for forming mortices and leave other ends set projecting fully debonded for new reinforced concrete foundations, complete all per Punch Engineers Drawings DR-S-4020	51	m			
	Land Drain					
	Land Drain to base of walls					
B	Supply and lay 150mm diameter PVC land drain wrapped in and including 1000G geotextile. include also for surrounding in peagravel bed and surround and for connecting to stormwater system. All per Engineers drawings and specifications	58	m			
C	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	1	No.			
	Handrail					
	Composite Items. Grade 316 Stainless Steel					
	Handrail to Ramp;- 45mm dia handrail fixed to top of 10mm MS uprights bolted to paving. Contractor Responsibility: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. System manufacturer: Submit proposals. Performance: As clause 220. Guarding; Material: Grade 316 Stainless steel. Rail Cross section: Refer to architectural drawings for design intent. Material: Grade 316 Stainless steel. Finish: Milled. Verification: Submittals; all as per Architects Drawing 907 and Specification.					
	Raking to Ramp					
D	950mm high above finished Ground Level	91	m			
	Extra over for;					
E	Bends	16	no			
F	Ends	4	no			

				€	c
	RETAINING WALL - TO STEPS TO LOWER GARDEN				
	EXCAVATION AND EARTHWORK: Excavation				
	Excavation				
	Foundation Trench				
A	Average depth; < 2.00m	40	m3		
	Extra on excavation items irrespective of depth for				
	Extra over excavating trenches irrespective of depth				
B	Excavating around existing services, parallel / next / alongside excavations	20	m		
C	Excavating around existing services, crossing excavations; ESB	1	No		
D	Excavating around existing services, crossing excavations; Eircom	1	No		
E	Excavating around existing services, crossing excavations; Foul	1	No		
F	Excavating around existing services, crossing excavations; Surface	1	No		
G	Next to existing Stone Boundary Walls; Include for all necessary tempory props etc.	13	m2		
	Working space excavation; Backfill with imported Annex E; deposited in layers 150mm thickness; compacted by mechanical means				
	Working Space Backfill with imported Annex E				
	Foundations				
H	depth <2.00m	13	m2		
	Disposal				
	Water				
J	Surface		Item		
K	Ground		Item		

To Collection €

				€	c
	Excavated material				
A	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	40	m3		
	Filling;				
	Imported Material				
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; average thickness				
	Filling				
	To make up levels				
B	"Annex E of SR21" Backfill to foundation; >250mm	11	m3		
C	"Annex E of SR21" Backfill to foundation; to underside of Steps	26	m3		
	CONCRETE WORK: In-Situ Concrete				
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Poured on or against earth or unblinded hardcore				
D	under strip foundations	2	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
E	Strip Foundations; Poured against formwork sides and on leanmix fill; Reinforced	12	m3		
	Walls				
F	Walls; >150mm; Reinforced.	10	m3		
				To Collection €	

				€	c
	Surface finishes				
	Steel Trowel finish to top of wall				
A	horizontally <300mm wide	16	m		
	CONCRETE WORK: Reinforcement				
	Bar				
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to shall comply with BS EN 10080 and BS 4449 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30				
	Straight or bent				
B	< 12mm diameter	2.20	tonne		
C	12 - 25mm diameter	2.20	tonne		
	CONCRETE WORK: Formwork				
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification E20 610				
	Sides of Foundations				
D	Height = or < 300mm	26	m		
	Walls, > 2.00m high				
E	> 300mm wide wide	100	m2		
F	< 300mm wide wide	4	m		
	Extra Over ditto;				
G	Permanent formwork against existing stone boundary wall	12	m2		
H	Fairface finish to Face of Concrete wall, all to Architect's Specification	42	m2		
	Labours				
J	Form 75mm diameter Weep Holes in 300mm Reinforced Concrete Wall @ 2,000mm centres	15	no		

To Collection €

				€	c
	New to Existing Foundation Connection				
A	400mm long H10 steel dowel bars, having one end set into side of existing reinforced concrete foundation with Hilti Hit-Hy Resin or equivalent; include for forming mortices and leave other ends set projecting fully debonded for new reinforced concrete foundations, complete all per Punch Engineers Drawings DR-S-4020	13	m		
	Land Drain				
	Land Drain to base of walls				
B	Supply and lay 150mm diameter PVC land drain wrapped in and including 1000G geotextile. include also for surrounding in peagravel bed and surround and for connecting to stormwater system. All per Engineers drawings and specifications	22	m		
C	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	1	No.		
	Handrail				
	Composite Items. Grade 316 Stainless Steel				
	Handrail to Ramp;- 45mm dia handrail fixed to top of 10mm MS uprights bolted to paving. Contractor Responsibility: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. System manufacturer: Submit proposals. Performance: As clause 220. Guarding; Material: Grade 316 Stainless steel. Rail Cross section: Refer to architectural drawings for design intent. Material: Grade 316 Stainless steel. Finish: Milled. Verification: Submittals; all as per Architects Drawing 907 and Specification.				
	Raking to Steps				
D	950mm high above finished Ground Level	20	m		
E	Ditto with Double Handrail to Centre of Steps	10	m		
	Extra over for;				
F	Bends	12	no		
G	Ends	6	no		

					€	c
	Edge Guarding					
	Composite Items. Grade 316 Stainless Steel					
	Parapet Handrail;- Side fixed metal balustrade installed to face of existing rendered rubble stone garden wall to raise the guarding height level to 1100mm above External ground level. Contractor Responsibility: Contractor is to complete the design and determine the type, sizes and numbers of fixings to meet design intent on Architect's drawings and schedules. System manufacturer: Submit proposals. Performance: As clause 220. Guarding; Material: Grade 316 Stainless steel. Rail Cross section: Refer to architectural drawings for design intent. Material: Grade 316 Stainless steel. Finish: Milled. Verification: Submittals; all as per Architects Drawing 915 and Specification Section L72/160A & Q41/250					
A	1,100mm high above finished Ground Level	135	m			
	Extra over for;					
B	Bends	2	no			
C	Ends	4	no			
	NEW BLOCKWORK WALL TO BOUNDARY WITH EXISTING SCHOOL					
	Demolitions					
	Carefully takedown and dispose off site section of existing steel mesh fence along boundary with existing school campus. Include for grubing up any existing concrete foundations etc. complete, and reinstatement of ground within neighbouring school campus, leave ready for new rendered masonary wall / boundary fence (elsewhere measured).					
D	Approx 2,100mm high	76	m			
E	Matching Double Gates and Posts, approx 4,000mm wide	1	No			
F	Extra over for works along boundary with School Campus, Include for all necessay Temporay security / solid privacy hoarding, reinstatement of school grounds / yard, etc. complete	76	m			
	Excavation					
	Excavation					
	Foundation Trenches					
G	depth < or = 2.00m	19	m3			

					€	c
	Foundation Pits for attached pad foundations					
A	depth < or = 2.00m	3	m3			
	Extra on excavation items for					
	Extra over excavating trenches irrespective of depth					
B	Excavating around existing services, parallel / next / alongside excavations	5	m			
C	Excavating around existing services, crossing excavations	5	No			
	Disposal					
	Water					
D	Surface		Item			
E	Ground		Item			
	Excavated material					
F	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	22	m3			
	<u>Working Space Backfill with imported Annex E</u>					
G	Foundation depth < 2.00m	46	m2			
	<u>Filling;</u>					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
H	"Annex E of SR21" Backfill to foundation; >250mm	12	m3			
				To Collection €		

					€	c
	CONCRETE WORK: In-Situ Concrete					
	Blinding					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Blinding					
A	Blinding under strip foundations	2	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
B	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	4	m3			
C	Foundations (attached pads); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	3	m3			
	CONCRETE WORK: Reinforcement					
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
D	Horizontal; Strip with attached Pad Foundations	22	m2			
	CONCRETE WORK: Formwork					
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification					
	Sides of Foundations					
	Height 300mm - 500mm					
E	Strip / Attached Pads	47	m			
					To Collection €		

					€	c
	BRICKWORK AND BLOCKWORK: Blockwork					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
	Rising Walls					
A	215mm thick	14	m2			
B	450mm thick to attached piers	2	m2			
	Walls					
C	215mm thick walls	42	m2			
D	450mm thick attached piers	4	m2			
	Labours					
	On blockwork					
E	Generally		Item			
	CONCRETE WORK: In-Situ Concrete					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
	Wall Capping. Overall size;					
F	overall 350mm wide x 100mm high	1	m3			
	Pier Capping. Overall size;					
G	overall 600mm x 600mm wide x 100mm high	1	m3			
	CONCRETE WORK: Formwork					
	Formwork - Wrot Finish; all in accordance with the Works Requirements and Structural Engineers specification E20 610					
	Sides & Underside of Capping					
H	Girth < 250mm	43	m			
				To Collection €		

				€	c
	Surface finishes				
	Steel Trowel finish to top of capping				
A	Raking sides >300mm wide	8	m2		
	Damp Proof Course				
	Damp proof courses approved PVC, 150mm laps				
	Width < 225mm				
B	Vertical	20	m		
	Expansion Joint				
	Typical blockwork movement Joint, include for 10mm thick closed cell polyethene sealed neatly with mastic pointing, all per Engineer's drawing, to;				
C	440mm thick blockwork	5	m		
	FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishings				
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall				
	To blockwork base; 25mm thick; to walls and piers; generally				
D	> 300mm	86	m2		
E	< 300mm wide	26	m		
	Sundries				
	Stainless steel beads, as per Architects Specification M20				
F	Angle bead	34	m		
G	Proprietary movement joint bead fixed with steel washered masonry nails to concrete blockwork	9	m		

To Collection €

				€	c
	PAINTING AND DECORATING: Painting				
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60				
	To dry dash plaster base				
	To walls and piers; generally				
A	> 300mm wide	86	m2		
B	< 300mm wide	26	m		
	Capping				
C	> 300mm girth	16	m2		
	Boundary Fencing				
	Boundary Fencing;- NK Fencing Rigid Mesh Fencing - Ibex Supreme 656 or Equivalent, to BS 1722-1. Finish: Galvanised and polyester powdercoated to BS EN 13438 by an approved applicator. Panels: 2100mm high x 2500mm long, 200 x 50mm mesh size, double twinned 6.0mm diameter horizontal wire and 5.0mm diameter vertical wire, vertical wires protrude 22mm above top horizontal wire. Posts and struts: 60x60mm RHS fence posts set into and including concrete bases300x300x600mm deep at 2.5m centres. Provide Shop Drawings for review and sample. Complete all as per Architect's drawings and Specification Q40/110				
	Fence to Boundary with School Campus				
D	2100mm high	65	m		
	Extra Over				
E	Ends	4	No		
F	Corners	3	No		
G	Matching Double Gate: NK Ibex Supreme 656 Double Leaf Gate as Shown on Site Plan, type Standard code NK/D/2000/ 4070 to 2.1m high above ground level. Comprising gate posts 100x100x4mm RHS, set into concrete bases 500x500x600mm deep, gate frame 50x50x3 having panels fixed using 25x5mm clamp bars and tek screws. Gate complete with adjustable hinges, drop bolt and ground sockets, NK Type 2A latch incorporating slipbolt for client's padlock. Size; 4,000mm wide x 2,100mm high	1	No		

				€	c
	NEW BLOCKWORK WALL BETWEEN DVR AND SOCIAL HOUSING UNITS				
	Excavation				
	Foundation Trenches				
A	depth < or = 2.00m	19	m3		
	Foundation Pits for attached pad foundations				
B	depth < or = 2.00m	7	m3		
	Extra on excavation items for				
	Extra over excavating trenches irrespective of depth				
C	Excavating around existing services, parallel / next / alongside excavations	5	m		
D	Excavating around existing services, crossing excavations	3	No		
E	Excavating next to existing stone boundary wal	2	m2		
F	Excavating next to existing Convent Building	2	m2		
	Disposal				
	Water				
G	Surface		Item		
H	Ground		Item		
	Excavated material				
J	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	26	m3		
	Working Space Backfill with imported Annex E				
K	Foundation depth < 2.00m	53	m2		
				To Collection €	

				€	c
	Filling;				
	Imported Material				
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness				
	Filling				
A	"Annex E of SR21" Backfill to foundation; >250mm	14	m3		
	CONCRETE WORK: In-Situ Concrete				
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Blinding				
B	Under strip foundations	2	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
C	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	6	m3		
D	Foundations (attached pads); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	2	m3		

To Collection €

				€	c
	CONCRETE WORK: Reinforcement				
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30				
	Fabric				
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification				
A	Horizontal; Strip with attached Pad Foundations	25	m2		
	CONCRETE WORK: Formwork				
	Wrot Formwork all in accordance with the Works Requirements and Structural Engineers specification				
	Sides of Foundations				
	Height 300mm - 500mm				
B	Strip / Attached Pads	52	m		
	BRICKWORK AND BLOCKWORK: Blockwork				
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A				
	Rising Walls				
C	215mm thick	14	m2		
D	450mm thick to attached piers	3	m2		
	Walls				
E	215mm thick walls	42	m2		
F	450mm thick attached piers	7	m2		
	Labours				
	On blockwork				
G	Generally		Item		

				€	c
	CONCRETE WORK: In-Situ Concrete				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
	Wall Capping. Overall size;				
A	overall 350mm wide x 100mm high	1	m3		
	Pier Capping. Overall size;				
B	overall 600mm x 600mm wide x 100mm high	1	m3		
	CONCRETE WORK: Formwork				
	Formwork - Wrot Finish; all in accordance with the Works Requirements and Structural Engineers specification E20 610				
	Sides & Underside of Capping				
C	Girth < 250mm	45	m		
	Surface finishes				
	Steel Trowel finish to top of capping				
D	Raking sides >300mm wide	9	m2		
	Damp Proof Course				
	Damp proof courses approved PVC, 150mm laps				
	Width < 225mm				
E	Vertical	20	m		
	Expansion Joint				
	Typical blockwork movement Joint, include for 10mm thick closed cell polyethene sealed neatly with mastic pointing, all per Engineer's drawing, to;				
F	440mm thick blockwork	15	m		
			To Collection €		

				€	c
	FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishings				
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall				
	To blockwork base; 25mm thick; to walls and piers; generally				
A	> 300mm	86	m2		
B	< 300mm wide	30	m		
	Sundries				
	Stainless steel beads, as per Architects Specification M20				
C	Angle bead	30	m		
D	Proprietary movement joint bead fixed with steel washered masonry nails to concrete blockwork	30	m		
	PAINTING AND DECORATING: Painting				
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60				
	To dry dash plaster base				
	To walls and piers; generally				
E	> 300mm wide	86	m2		
F	< 300mm wide	30	m		
	Capping				
G	> 300mm girth	16	m2		

					€	c
	GATES <u>External gates; shall be fabricated from mild steel hot dip galvanised after fabrication with welds ground smooth, including all necessary site welding; shot blast clean steel members and apply Blast Primer to a dry film thickness of 20 microns and Holding Primer to a dry film thickness of 50 microns at works. Include also for powder coat finish to selected colour; include for all as indicated on Architects plans, elevations and as per Architects Specifications and to match railings</u> Double gate - composed of 60 x 40 x 3mm framing to four sides, infill with 2 no. 40 x 40mm RSA horizontal mid-rails, and 40 x 10mm solid vertical Flats at 95mm centres; hinges galvanised mild steel hinge lug shaped as shown on plan and welded to gate framing. Hole for hinge. 2 no. lockable latchs, 2no 6mm flat plate, push plate welded in-between flat uprights. 10mm dia. hole through catch and back plate for padlock. 2no drop bolts, fixed to box framing, include for all necessay latches, hinge spigots fixed to rendered masonary wall, brackets, catches, all to have powder coat finish, etc. complete, all as per Architects Drawing 356 and specification; size					
A	Overall 2,250mm wide x 2,100mm high	1	No			
	<u>ENTRANCE GATES</u>					
B	All works to to existing Gates are to be per Conservation Architect's Specification 3.19		Note			
C	A specialist ironworker with at least 7 years conservation expertise shall be employed to carry out this element of the work.		Note			
D	Gates to be repaired in situ. Only removed off site on approval of the Architect / Conservation Architect		Note			
E	Carefully take down and store on site existing entrance double gates (with Ironwork Piers) and single pedestrian gate to Evergreen Road. Remove existing rust using metal brush or sandblasting method, as required. Missing screws, bolts or/and pins are to be replaced with stainless steel or phosphor bronze fixings and should be isolated from the surrounding ironwork by nylon sleeves or top hats. Include for all necessary cleaning and removal of all existing paint and leave ready for new decoration (elsewhere measured). All to ISO 8501, ISO 8502, ISO 8503 and ISO 8505.		Item			
F	Extra over for targeted testing of existing painted surfaces, and removal of existing lead paint from Gates and railings via Lead-safe working practices.		Item			

To Collection €

					€	c
A	Include for all necessary repairs / reinstatement at all fixing points in existing masonary walls		Item			
B	Carefully takedown and dispose off site section of Existing Railing approx 2,000mm high, including breaking up and disposing off site existing concrete plinth under railing. include for all necessary saw cutting and reinstament to existing railing, and leave ready for new decoration.	5	m			
	<u>Cleaning Of Ironwork all per Conservation Architect's Specification 3.19.1</u>					
	Allow for all necessary cleaning, including shot blasting, to					
C	Double Gates with Ironwork Piers / Side Panels - approx 4,400mm wide x 2,200mm high	1	No			
D	Single Pedestrian Gate - Approx. 1,200mm wide x 2,000mm high	1	No			
E	Railing approx. 2,000mm high to boundary with School Campus	10	m			
	<u>Repair of Casting Flaws all per Conservation Architect's Specification 3.19.2</u>					
	Casting flaws are to be filled with a polysulphide mastic, to					
F	Double Gates with Ironwork Piers / Side Panels - approx 4,400mm wide x 2,200mm high	1	No			
G	Single Pedestrian Gate - Approx. 1,200mm wide x 2,000mm high	1	No			
H	Railing approx. 2,000mm high to boundary with School Campus	10	m			
	Repairs Gates / Railings					
J	Include for all necessary testing of the techniques pior to any necessary repair works to gates & railings		Item			
K	Welding with cast iron rods in small bursts over the damaged areas to Gates / Railing		Item			
L	Extra over for Cold Stitching technique repairs to gates / railings		Item			

To Collection €

					€	c
	Contractors to allow for 30% replacement of existing metalwork with matching metalwork to;					
A	Double Gates with Ironwork Piers / Side Panels - approx 4,400mm wide x 2,200mm high	1	No			
B	Single Pedestrian Gate - Approx. 1,200mm wide x 2,000mm high	1	No			
C	Railing approx. 2,000mm high to boundary with School Campus	10	m			
	Re-erect Existing Gates (Can be done as part of Phase 2 Works - Social Housing)					
	Re-erect existing iron gates after cleaning and repairs, in new location along entrace road as indicated on Architect's Drawing 104. Include for all necessary fittings, reinforced concrete foundation / plinth to ironwork piers / side panels, etc. complete. Allow for gates to be in a held open position.					
D	Double Gates with Ironwork Piers / Side Panels set into and including reinforced concrete plinth (to match existing) - approx 4,400mm wide x 2,200mm high	1	No			
E	Single Pedestrian Gate - Approx. 1,200mm wide x 2,000mm high	1	No			
	Painting of Ironwork					
	Following cleaning and repairs, ironwork elements are to be primed and painted. Colours to be agreed. Application of coating: a) Primer: Two coats of zinc-based primer, conforming BS 4652, dry film thickness of 60 microns approximately. b) Base coat: One or two bases of chlorinated rubber. c) Finish coat: One or two coats of gloss paint, being 35 microns and 25 microns respectively. Avoid watersoluble acrylic paint. To be Alkyd bases. All per Conservation Architect's Specification 3.19.3					
	Both Faces of Gates / Railings Measured to					
F	Double Gates with Ironwork Piers / Side Panels - approx 4,400mm wide x 2,200mm high	20	m2			
G	Single Pedestrian Gate - Approx. 1,200mm wide x 2,000mm high	5	m2			
H	Railing approx. 2,000mm high to boundary with School Campus	40	m2			

To Collection €

					€	c
	Extra Over For					
A	Neatly Painting existing sign to Gate with contrasting colours to lettering and background of sign	1	No			
B	Ditto Crest to Piers	2	No			
	PLANTER WALLS (2no Locations per Architect's drawings 916)					
	Excavation					
	Foundation Trenches					
C	depth < or = 2.00m	3	m3			
	Extra on excavation items for					
	Extra over excavating trenches irrespective of depth					
D	Excavating around existing services, parallel / next / alongside excavations	5	m			
E	Excavating around existing services, crossing excavations	4	No			
	Disposal					
	Water					
F	Surface		Item			
G	Ground		Item			
	Excavated material					
H	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	3	m3			
	Filling;					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
J	"Annex E of SR21" within planter approx 260mm wide x 675mm deep under seat section	1	m3			

To Collection €

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	CONCRETE WORK: In-Situ Concrete				
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Blinding				
A	Under strip foundations	1	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
B	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	2	m3		
	CONCRETE WORK: Reinforcement				
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30				
	Fabric				
	Reference A193; 400mm laps between all adjoining sheets to Engineers specification				
C	Horizontal; Strip Foundations	8	m2		
	CONCRETE WORK: Formwork				
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification				
	Sides of Foundations				
D	Height < 300mm	27	m		
				To Collection €	

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	BRICKWORK AND BLOCKWORK: Blockwork					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
	Walls to planters					
A	100mm thick walls	19	m2			
	Labours					
	On blockwork					
B	Generally		Item			
	STONEWORK: Stone Cladding					
	DESIGN RESPONSIBILITY: The Architects drawings and specifications are indicative of the design intent and define the performance criteria, the mandatory geometry of the exposed surfaces including joint positions, and detail the required principal materials and visible finishes. The Specialist Sub-Contractor shall be responsible for developing and completing the design in accordance with the above and the other contract documents, taking into account any additional criteria which, with his specialist knowledge, he believes are relevant. The Specialist should refer to the drawings prepared by Nicholas O`Dwyer Consulting Engineers which describe the primary building structure which will be the basis of the secondary steel design prepared by the Specilaist. The Specilaist can put forward alternatives for consideration by the Architect. Additionally any suggested solutions described on the Architects drawings shall not in any way relieve the Specialist from his responsibility for the design and construction of the whole of the works; all as per Architects Specification H51 10 - 660		Note			
				To Collection €		

					€	c
	Walls					
	Natural stonework cladding to Convent Planter / Seat; backing wall concrete blockwork. STONE SLAB STANDARD; standard to EN 1469: DENOMINATION; denomination to BS 12440; name; Irish Limestone; Petrological family Limestone; FACE DIMENSIONS; Face dimensions, length (l) x width (b): see Architects drawings; THICKNESS; minimum 40mm (subject to structural calculations);. COLOUR: Very Light Gray (N8) to Light Grey (N7); FINISH; sanded or dry honed; SAMPLES; samples to be provided; Finish: shotblasted. - Supplier: Submit proposals. - Quality: Free from vents, cracks, fissures, discolouration, or other defects deleterious to strength, durability or appearance. Before delivery to site, season thoroughly, dress and work in accordance with shop drawings prepared by supplier. FIXINGS: stainless steel fixings to BS8298-1 and 2; Contractor designed; all as per specification clause H51/230 230 and 305. JOINTS: - Type: sealant filled as clause 600. - Bond pattern: see drawings. - Width (nominal): 5mm external. - Profile: recessed. CAVITY WIDTH (nominal): see drawings - Air gap: 50mm. all in accordance with the Works Requirements and in particular Architects drawings and specification clause H51/110					
	< 300mm wide					
A	forming Capping to wall, per Architects Drawing 916 detail 02	15	m			
	> 300mm wide					
B	Verrtical; Face of Planter	8	m2			
C	Horizontal; Seat next to Planter, Include for any necessary addtional fixings / galvanised steel supports	3	m2			
	Extra over for					
	External angles					
D	generally	2	m			
	Labours					
	Making good around obstructions and the like					
E	girth 300 - 1000mm	2	nr			

To Collection €

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	Anti Graffiti Coating					
	Clear anti-graffiti matt finish coating (fluorine based copolymer); all in accordance with the Works Requirements and in particular Architects specification clause H51/110/12					
	< or = 300mm wide					
A	generally	15	m			
	> 300mm wide					
B	generally	11	m2			
	Flashings					
	Stainless Steel Flashing - Aluminium thickness: 3mm. FIXING: - Secret clip fixed to inner blockwork leaf to external wall of East Block. All to contractor's design. - End to end joints: butt jointed; external and internal corners should be welded and all welds ground down to provide a smooth and integral 3 dimensional profile. all in accordance with the Works Requirements and in particular Architects drawing 916 and Specification					
	Cover Flashing per Item 2 on Architect's Drawing 916; 4 times cranked.					
C	Width; 450mm - 600mm	12	m			
D	Ends	4	No			
	Land Drain					
	Land Drain to back of Planter per Architect's Drawing 916					
E	Supply and lay 100mm diameter PVC land drain wrapped in and including 1000G geotextile. include also for surrounding in peagravel bed and surround and for connecting to stormwater system. All per Engineers drawings and specifications	20	m			
F	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	2	No.			

To Collection €

					€	c
	Tanking					
	Tanking applied to blockwork walls. Specialist designed post-applied waterproof membrane composite sheet for tanking. To be used in conjunction with clause 297/B as required by specialist design proposal.. Manufacturer: GCP Applied Technologies or Equivalent, Bituthene 8000 or equivalent membrane. Third-party certification: NSAI Agrement Certificate. Form: Gas resistant, damp-proof and waterproof membrane. Carrier material: High-density polyethylene (HDPE). Primer: Bituthene Primer S2, or equivalent. Number of layers: As per manufacturers guidelines. Thickness/ gauge: 1.5mm. Weight:: 1.49 kg/m2. Water Vapour Transmission: To EN 1931, 105.000) 30% IE= sD/d.. Watertightness: To EN 1928, at 60 kPa: pass. Static Load Resistance: To EN 12730, .20: pass. Tensile Strength: To EN 12311-2, .180 N/50 mm (longitudinal); .180 N/50 mm (transversal). Reaction to Fire: To EN 13501-1, Class E. Joints Surfaces to be joined: Properly seal all joints with waterstop, joint filler and sealant as required. Bituthene membranes are not intended to function as the primary joint seal. Allow sealants to fully cure. Pre-stril all slab and wall cracks over 1/16 in (1.5mm) wide and all construction and control joints with 9in (230mm) wide sheet membrane strip. Laps (minimum): Side and end laps, 50mm at sides and ends, unless otherwise specificed by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Application temperature: -5C to +20C. All per Architects drawing 916 and Specification J40/297C					
	> 300mm					
A	Inner face of Planter	9	m2			
	< 300mm					
B	Inner face of Planter	3	m			
C	Base of Planter	7	m			
D	Supply and fit Drainage Board to base of planter, approx. 260mm wide	7	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			

To Collection €

					€	c
A	Warranties Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements		Item			
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			

To Collection €

				€	c
COLLECTION					
Page No. DVR SDW/3/1					
Page No. DVR SDW/3/2					
Page No. DVR SDW/3/3					
Page No. DVR SDW/3/4					
Page No. DVR SDW/3/5					
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COLLECTION					
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Page No. DVR SDW/3/29					
Page No. DVR SDW/3/30					
Page No. DVR SDW/3/31					
(30) SITE ENCLOSURES - DVR **Carried to Summary**					

					€	c
	(40) ROADS, PATHS & PAVINGS - DVR					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawing No's 104, 105, 125 and Engineer's Drawings Nos. C-001, 0401, 0440, 0460, 0550,		Note			
B	The Engineers and Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials see specification		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same.		Note			
	Circulation Road & Parking Areas					
	Geotextile Membrane					
F	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	838	m2			
	Filling					
	Filling; imported granular material 6F2 to table 6/1 of the NRA specification for roadworks; spread and levelled in road base; average thickness					
G	> 250mm thick	378	m3			
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness					
H	< 250mm thick	126	m3			
J	Hardcore in forming raised table	7	m3			
	Asphalt Base layer					
	AC 32 Dense base 40/60; laid to falls and crossfalls					
K	100mm thick	838	m2			

To Collection €

					€	c
	Surface buildup					
A	60mm AC 20 dense bin 40/60	838	m2			
B	40mm SMA 14 surf PMB 65/105-70 des; in Siac duracolour buff road surface finish	221	m2			
C	Ditto as last with 30% natural red aggregate within surface finish	618	m2			
	Kerbs					
D	150 x 125mm high heavy duty precast concrete kerbs, splayed on one side and cast in 900mm lengths set on and including 300 x 100mm thick concrete Grade 40 / 20	81	m			
E	Ditto last; laid flush	176	m			
F	Extra over for curved kerbs	43	m			
	Road Markings & Thermoplastic Linemarking (per dwg C-0460)					
G	100mm single white line RRM001	114	m			
H	200mm double white line RRM019	14	m			
J	Fully pigmented disabled parking bay 6.00 x 5.00m wide including line markings, hatching & emblem (RRM015)	1	No			
K	Fully pigmented electrical vehicle charging bay 2.50 x 5.00m wide including line markings and emblem (RRM034)	2	No			
L	Bicycle emblem (M116)	2	No			
M	Pedestrian emblem (M111)	2	No			
N	Hatched box set down area overall 3.00m x 5.00m	1	No			
P	Directional Arrows	4	No			
Q	Triangular yield marking (M115)	2	No			
	Traffic Signage; to comply with Council / NRA Standards					
	Inlusive of all required excavation, dispsal off site, foundations, fixing, complete					
R	Stop Sign, fixed to pole, 2m high (RUS027)	1	nr			
S	Yield Sign, fixed to pole, 2m high (RUS026)	2	nr			
T	EV charging sign, ditto (RUS20a)	2	nr			
U	Disable bay sign, ditto	1	nr			

To Collection €

				€	c
A	Self righting fluorescent bollard with keep left sign (RUS001)	1	nr		
	Concrete Paths With Exposed Aggregate Finish				
	Geotextile Membrane				
B	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	648	m2		
	Filling				
	Filling; imported cL 804 material; spread and levelled; average thickness				
C	< 250mm thick	130	m3		
	Surface Treatment				
D	50mm thick limestone fines blinding	648	m2		
	Damp Proof Course				
E	1000 gauge "Visqueen" or equivalent DPM laid on blinding in preparation for concrete footpath in accordance with the manufacturers instructions	648	m2		
	Concrete To Exposed Aggregate Concrete Paths; all in accordance with Architects Specification Q21/115, filled in on blinded hardcore and vibrated in:				
	Paths				
F	150mm; to ramps & paths, laid to falls	108	m3		
	Surface Finishes				
G	Float finish; steel trowel	648	m2		
H	Apply vegetable based surface retarder, curing agent and associated pressure washing as required for textured finish	648	m2		
J	Bullnose edge	815	m		
	Steel fabric reinforcement all as before in:				
	Reference A142; end laps per Engineers specification				
K	Horizontal	648	m2		

To Collection €

					€	c
	Formwork					
A	To edges of path; <250mm	333	m			
	Sundries					
B	Designed joints; form 12mm wide expansion joint in concrete footpaths	216	m			
	Resin Bound Gravel Paths					
	Geotextile Membrane					
C	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	132	m2			
	Filling					
	Filling; imported Cl 804 material; spread and levelled; average thickness					
D	< 250mm thick	27	m3			
	Surface Treatment					
E	50mm thick limestone fines blinding	132	m2			
	Surface & Base Course					
F	Course surface resin bonded hand scattered aggregate with finish Sealer, 30mm of 10mm Open Graded Macadam Surface Course (Max 125 Pen) to BS 4987-1 ref 7.2 or 30mm of 10mm SMA (Max 125 Pen), in well compacted layers, on80mm base course in dense bitumen macadam 28mm nominal size (100 pen grade binder) laid to falls.	132	m2			
	Edge Treatment					
G	4.8 x 102mm mill finish aluminium edging to perimiters	129	m			
	Paving Areas					
	Filling; imported min. T2 Perm granular fill material; spread and levelled; average thickness					
H	< 250mm thick	14	m3			
	Surface Treatment					
J	40mm cement mortar bedding layer	93	m2			

To Collection €

				€	c
	Paving Slabs				
A	1. Supplier: Kilkenny Limestone Quarries, or equivalent 1.1. Product reference: Irish Limestone 1.2. Quarry: Submit proposals 2. Standard: In accordance with BS EN 1341 3. Petrographical description/ stone type: Irish Blue Limestone 4. Performance: 4.1. Freeze/thaw resistance: F1 4.2. Abrasion Resistance: 2mm 4.3. Slip resistance: SRV of 50 or above, 45 or above when wet 5. Product characteristics: 5.1. Dimensions: 700x400mm slabs 5.1.1. Plan dimension deviation class: P2 5.1.2. Diagonal deviation class: 2 5.1.3. Thickness deviation class: T2 5.2. Finish: Dark honed 500 grit 5.3. Arrises: Square 6. Verification: Provide full size sample	93	m2		
	Pebble Stone boundary detail.				
	Supply and fit Pebble Stone boundary detail. Rounded river washed pebbles. Size: 5-30mm. Colour: white/silver grey. All per Architect's Drawing 300 and SpecificationJ41/460				
B	Circa 250mm wide x 125mm deep	152	m		
	Works To Existing Convent Front Entrance Steps (Per Architects Drawings 913 & 914)				
C	Clean down, repair and make good as necessary existing entrance porch to receive new granite paving	1	Item		
	Granite Stone Slabs; per Architects Specification Q25/312				
	1. Location: At Entrance to Convent - refer Architectural drawing 913 2. Supplier: Submit proposals 2.1. Product reference: Polished granite Paving 2.2. Quarry: Submit proposals 3. Standard: In accordance with BS EN 1341 4. Petrographical description/ stone type: Granite 5. Performance: 5.1. Freeze/thaw resistance: F1 5.2. Abrasion Resistance: 2mm 5.3. Slip resistance: SRV of 50 or above, 45 or above when wet 6. Product characteristics: 6.1. Dimensions: Refer drawing 913 6.1.1. Plan dimension deviation class: P2 6.1.2. Diagonal deviation class: 2 6.1.3. Thickness deviation class: T2 6.2. Colour: Alternating dark and light colour as per drawing - provide samples 6.3. Finish: Polished 6.4. Arrises: Square 7. Verification: Provide full size sample. Inclusive of mortar bedding and jointing				
D	>300mm; alternating light & dark colour design as per Architects Drawing 913	7	m2		
E	Extra over for curved edge	6	m		
F	Extra over for cutting around existing 400mm diameter columns	4	No		

To Collection €

					€	c
	Polished Granite Steps; per Architects Specification Q25/312A 1. Location: At Entrance to Convent - refer Architectural drawing 913 2. Supplier: Submit proposals 2.1. Product reference: Polished granite Paving 2.2. Quarry: Submit proposals 3. Standard: In accordance with BS EN 1341 4. Petrographical description/ stone type: Granite 5. Performance: 5.1. Freeze/thaw resistance: F1 5.2. Abrasion Resistance: 2mm 5.3. Slip resistance: SRV of 50 or above, 45 or above when wet 6. Product characteristics: 6.1. Dimensions: To work with existing steps and base of columns - Refer drawing 913 6.1.1. Plan dimension deviation class: P2 6.1.2. Diagonal deviation class: 2 6.1.3. Thickness deviation class: T2 6.2. Colour: To match existing stone steps - provide samples 6.3. Finish: Polished 6.4. Arrises: Square 7. Verification: Provide full size sample					
A	Solid tread/riser detail; 300mm x 165mm deep with 25mm bevelled edge as per Architects Drawing 914; curved	12	m			
	Door Thresholds **1. Supplier: Kilkenny Limestone Quarries, or equivalent 1.1. Product reference: Irish Limestone 1.2. Quarry: Submit proposals 2. Standard: In accordance with BS EN 1341 3. Petrographical description/ stone type: Irish Blue Limestone 4. Performance: 4.1. Freeze/thaw resistance: F1 4.2. Abrasion Resistance: 2mm 4.3. Slip resistance: SRV of 50 or above, 45 or above when wet 5. Product characteristics: 5.1. Dimensions: 109 x 80mm 5.1.1. Plan dimension deviation class: P2 5.1.2. Diagonal deviation class: 2 5.1.3. Thickness deviation class: T2 5.2. Finish: Dark honed 500 grit 5.3. Arrises: Square 6. Verification: Provide full size sample**					
B	109 x 80mm deep as per typical detail 03 Architects Drawing 316	32	m			
C	Extra over for ends	32	No			

To Collection €

				€	c
	Surface Drainage Channels to finish flush with door entrances				
A	1. Manufacturer: Submit proposals Product reference: Proprietary Die Cast Iron trapped gulley with removable access cover for rodding side or bottom outlet with Vari Level connector to allow for height adjustment of grating Substrate construction: Concrete bae and embedment over compacted granular fill / hardcore. - Type of grate/ Fittings: vari level extension piece with flat terrace grate (Stainless steel) to suit finish depth - min grating size 150 x 150 mm - Outlet: Vertical or horizontal outlet with screwed connection to buried 1100 OD drain to C/S Engineers specification and detail - Accessories: Provide sleeve to pipe when passing under walls. Submit sample prior to ordering. Bedding in concrete grade 25N and haunching to sides:-	32	m		
	Extra over for;-				
B	Stop Ends	32	No		
C	Trapped outlet complete with heavy duty access cover and jointing to 100mm diameter uPVC outlet pipe (elsewhere measured) including adaptor.	16	No		
D	1. Manufacturer: Submit proposals - Product Description: High performance channel drainage system fully compatible with paviours, setts, bricks or flags in pedestrian, driveway or medium traffic loading areas. Fully certified and CE marked to BS EN 1433 load class C250/D400. Falls are integrated into the base of the channel system. - Visible element: The system comprises a discreet 10 mm wide flared galvanized or stainless steel slot cover frame, over a polymer concrete channel drain unit. - Finish: Paving / Terrazzo is laid over the channel unit and butted up against the linear slot, leaving only the slim drainage slot visible on the surface. - Type of grate/ Fittings: Patented proprietary Galvanised mild steel slot suitable for level access over , and fitted with heelguard spacing - Outlet: bottom or side outlet direct to two tier type drainage outlet set into structural slab below, or via sump c/w access cover over. - Accessories: support brackets, jointing clips, covers and joint sealant forming part - of an integrated drainage solution. Bedding in concrete grade 25N and haunching to sides:-	20	m		
	Extra over for;-				
E	Stop Ends	6	No		

To Collection €

					€	c
A	Trapped outlet complete with heavy duty access cover and jointing to 100mm diameter uPVC outlet pipe (elsewhere measured) including adaptor.	3	No			
	Works Along Entrance Road Outside Adjoining School					
	Temporary fencing, hoarding, screens, planked footways, guard rails, gantries and similar items					
	Provide temporary fencing (min 2400mm high), hoardings, for protecting the public for the proper execution of the works and for effectively enclosing and protecting the site against trespass and interference. Obtain approval from the Employers Representative for all temporary hoardings and fences and comply with the requirements of the Local Authority					
B	Circa 38.0m long x 1.20m wide	1	Item			
C	Extra over last for removal and disposal of hoarding off site on completion of the works	1	Item			
	Ramp To Access Front Of Existing Convent Building					
	Excavation & Earthworks					
	Separating membrane; Terram 1000 Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions					
	Horizontal					
D	Generally	14	m2			
	Reduce levels					
E	Depth < or = 2.0m	7	m3			
	Foundation trenches					
F	Depth < or = 2.0m	6	m3			
	Filling					
	Filling; T2 granular material in accordance with Annex E of S.R.21:2016; spread and levelled; in making up levels; average thickness					
G	< 0.25m	9	m3			
	Surface Treatments					
H	50mm minimum thickness T3 blinding material	14	m2			

To Collection €

					€	c
	Lean Mix Blinding;					
A	75mm minimum thickness, poured on or against earth or unblinded hardcore	14	m2			
	Damp Proof Course					
B	1000 gauge "Visqueen" or equivalent DPM laid on blinding in preparation for concrete footpath in accordance with the manufacturers instructions	14	m2			
	Concrete Grade C32/40;					
	<u>filled in on blinded hardcore / leanmix concrete and vibrated in:</u>					
C	Concrete Slab, 150mm thick; laid to falls	3	m3			
D	Foundations; reinforced; cast against sides of excavation	5	m3			
	<u>To walls; varying heights around ramp</u>					
E	200mm thick	2	m3			
	Sundries					
F	200mm deep two component cold applied high performance pavement joint sealant at junction with building, as per Engineers Details	12	m			
	Surface Finish; to falls and crossfalls					
G	Trowel finish and subsequently star roll upper surface	14	m2			
H	Trowel finish to top of in situ concrete upstand kerb; 200mm wide	20	m			
	<u>Steel fabric reinforcement all as before in:</u>					
	Reference A393; end laps per Engineers specification					
J	Horizontal	28	m2			
K	Vertical	19	m2			
	Formwork					
	<u>Wrot formwork having to Engineers Specification</u>					
L	Edge of paths; <250mm high	3	m			
M	Sides of walls (both sides of walls measured)	19	m2			

To Collection €

					€	c
	Upstand					
A	Form 125 x 75mm deep concrete upstand to top of retaining walls inclusive of all concrete, reinforcement, formwork, surface finish etc. complete	20	m			
	Paving					
B	Curdoroy profile Tactile Flags & Slabs landings	3	m2			
	Sundries					
C	Form fair joint with existing tarmacadam surface	2	m			
D	Allow for making good as necessary existing curved steps to Convent Main Entrance	1	Item			
	Metalwork; Non Structural					
E	Tubular stainless steel balustrade with 2Nr horizontal bars; vertical posts @ 1200mm c/c	20	m			
	Ramp To Rear Of Existing Convent Building					
	Excavation & Earthworks					
	Separating membrane; Terram 1000 Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions					
	Horizontal					
F	Generally	73	m2			
	Filling					
	Filling; T2 granular material in accordance with Annex E of S.R.21:2016; spread and levelled; in making up levels; average thickness					
G	< 0.25m	22	m3			
	Surface Treatments					
H	50mm minimum thickness T3 blinding material	73	m2			
	Concrete Grade C32/40;					
	filled in on blinded hardcore and vibrated in:					
J	Concrete Ramp, 150mm thick; laid to falls	11	m3			

To Collection €

				€	c
	Sundries				
A	150mm deep two component cold applied high performance pavement joint sealant at junction with Wall, as per Engineers Details	85	m		
	Surface Finish; to falls and crossfalls				
B	Trowel finish and subsequently star roll upper surface	73	m2		
	Steel fabric reinforcement all as before in:				
	Reference A393; end laps per Engineers specification				
C	Horizontal	73	m2		
	Formwork				
	Wrot formwork having to Engineers Specification				
D	Edge of paths; <250mm high	4	m		
	Paving				
E	Curdoroy profile Tactile Flags & Slabs landings	3	m2		
	Metalwork; Non Structural				
F	45mm dia Tubular stainless steel balustrade with 10mm Stainless Steel uprights bolted to surface of reinforced concrete ramp @ 2600mm c/c, include for all necessary fixings, base plates, etc. complete all as per Architect's drawing 907	82	m		
	Extra Over for;				
G	Ends	4	No		
H	Bends	12	No		
	Stairs To Rear Of Convent				
	Separating membrane; Terram 1000 Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions				
	Horizontal				
J	generally	29	m2		
				To Collection €	

					€	c
	Filling					
	To make up levels					
	Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation to roads and paths; as per Engineer's specification					
A	Average thickness not exceeding 250mm	17	m3			
	CONCRETE WORK					
	In-situ concrete					
	Grade C10/12 Concrete					
	Blinding; poured on unblinded hardcore					
B	<150mm thick	2	m3			
	Grade C30/37 Concrete					
	Paths; laid on compacted hardcore base					
C	staircases	5	m3			
	Sundries					
	Expansion Joint					
D	Saw cut 10mm wide joint in concrete path to circa 100mm depth; 100 x 10mm compressable board with tar sealant; inclusive of 600mm long x 12mm diameter mild steel dowel bars at 600mm c/c with one side fully debonded; as detailed per Engineers Drawing C014	11	m			
	Surface Finishes					
	Light brushed finish to Class U4 as per Engineer's Specification					
E	generally	29	m2			
	Trowelled finish to margins; all labours					
F	100mm margin with bullnose edge	21	m			
G	Surface finish; steel float finish to steps	56	m			

To Collection €

					€	c
	Formwork					
	Wrot formwork as described to Engineer's specification to : -					
	To edges of beds					
A	width not exceeding 250mm	10	m			
	To stairs					
B	stair risers; not exceeding 250mm	56	m			
C	edges of stair flights; to profile of steps; raking	21	m			
D	form 50 x 25mm recess for nosing to edges of treads	56	m			
	Reinforcement					
	Fabric					
	Reference A142; end laps per Engineers specification					
E	horizontal	12	m2			
	Reference A393; end laps per Engineers specification					
F	To stair flight	17	m2			
	Nosing					
G	50 x 25mm recessed slip resistant nosing in contrasting colour; per Architects Drawing 905 detail 05	67	m			
	Tactile Paving					
H	Curdoroy profile Tactile Flags & Slabs landings	16	m2			
	Handrail					
J	45mm diameter tubular stainless steel handrail; fixed to walls	7	m			
K	Ditto; raking	14	m			
	Balustrade					
L	2nr 45mm stainless steel tubular handrails fixed to 10mm mild steel uprights bolted to concrete; centres as shown on Architects Drawings 905 & 906	21	m			

					€	c
	WORKS OUTSIDE OF THE SITE BOUNDARY					
A	The Contractor shall (1) prepare a Traffic Management Plan for the works, (2) prepare and submit to Local Authority "application for license for openings / crossings to roads, footpaths, verges and open areas", (3) pay all charges to Local Authority to obtain appropriate license, (4) manage the construction activities in accordance with the Conditions of the Opening License and the Traffic Management Plan, to include the safe regulated diversion of pedestrians and vehicular traffic.		Item			
B	Provide where work is executed beyond the boundary of the site in the public roads & footpaths for adequate watching and lighting, traffic signalling; temporary barricades walking platforms and warning notices sufficient to ensure the safety of all persons and removing same on completion, and carrying out the work to Local Authority satisfaction.		Item			
	Entrance Widening / Alterations					
	Demolitions and alterations					
C	Remove existing entrance gate/railing and associated concrete base; overall circa 7m wide	1	Item			
D	Allow for removal of existing thermoplastic line markings by thermal lancing to facilitate site entrance sight lines	78	m			
E	Ditto last; double yellow lines	50	m			
F	Ditto; single white lines	73	m			
G	Ditto; broken white lines	50	m			
H	Ditto, disabled parking emblem	1	no			
J	Hack up and remove from site existing tarmacdam roadway inclusive of sub base	75	m2			
K	Ditto last, existing concrete footpath	32	m2			
	Roadway & Footpath					
	Geotextile membrane					
L	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	48	m2			
				To Collection €		

				€	c
	Filling				
	Filling; imported granular material 6F2 to table 6/1 of the NRA specification for roadworks; spread and levelled in road base; average thickness				
A	450mm granular material 6F2 o table 6/1 of the NRA specification	22	m3		
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness				
B	<250mm	8	m3		
	<u>Asphalt Base layer</u>				
	AC 32 Dense base 40/60; laid to falls and crossfalls				
C	100mm thick	48	m2		
	<u>Surface buildup</u>				
D	60mm AC 20 dense bin 40/60	48	m2		
E	40mm SMA 14 surf PMB 65/105-70 des	48	m2		
F	Extra over for hardcore in forming raised table	20	m3		
G	Fair joint with existing public roadway	25	m		
	Concrete Footpath				
	<u>Geotextile membrane</u>				
H	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	8	m2		
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness				
J	<250mm	2	m3		
	Surface Treatment				
K	50mm sand blinding	8	m2		
				To Collection €	

					€	c
	Concrete Grade C40/50, per Engineers Drawings & Specification filled in blinded hardcore and vibrated in					
A	Paths; 100mm thick	1	m3			
	<u>Steel fabric reinforcement</u>					
	Reference A393; end laps per Engineers Specification					
B	Horizontal	8	m2			
	<u>Tactile Paving</u>					
C	Tactile Paving Flags and Slabs. Standard: To DD CEN/TS 15209. Material: Precast concrete. Manufacturer: Submit proposals. Product reference: Submit proposals. Recycled content: Not applicable. Nominal sizes: 450 x 450 mm. Colour: Buff. Type of surface: Blister type B1	8	m2			
	<u>Kerbs</u>					
D	Standard Kerb, 145 x 225mm high heavy duty precast concrete kerbs in silver grey / natural colour, splayed on one side and cast in 915mm lengths set on and including 300 x 150mm thick concrete foundation and 155 x 175 haunching Grade C30 / 37; inclusive of all excavaton, formwork, ends, angles, etc. complete, all per Architects drawings and specification	12	m			
	Sundries					
E	Brush finish to falls & cross falls on in-situ concrete slab	8	m2			
F	Bull nose edge	48	m			
G	Designed joints; form 12mm wide expansion joint in concrete slabs	10	m			
H	Fair joint with existing public footpath	6	m			
J	Fair joint with existing public roadway	42	m			
	Linemarking					
K	STOP lettering	1	Item			
L	Double yellow lines	50	m			
M	Single white lines	73	m			
N	Broken white lines	50	m			
P	Disabled parking emblem	1	no			
				To Collection €		

					€	c
A	Pedestrian crossing; circa 7.00 x 2.00m and with sharks tooth markings	1	Item			
B	Double yellow lines	98	m			
	Signage					
C	'Stop' sign to Council standards	1	No			
D	Allow for removal and replacement of existing Council pay parking sign on steel pole	1	No			
	Public Footpath Widening For Site Entrance Sight Lines					
E	Hack up and remove from site existing tarmacdam roadway inclusive of sub base	75	m2			
F	Ditto last, existing concrete footpath	86	m2			
	Concrete Footpath					
	Geotextile membrane					
G	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	161	m2			
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness					
H	<250mm	25	m3			
	Surface Treatment					
J	50mm sand blinding	161	m2			
	Concrete Grade C40/50, per Engineers Drawings & Specification filled in blinded hardcore and vibrated in					
K	Paths; 100mm thick	17	m3			
	Steel fabric reinforcement					
	Reference A393; end laps per Engineers Specification					
L	Horizontal	161	m2			

To Collection €

				€	c
	Tactile Paving				
A	Tactile Paving Flags and Slabs. Standard: To DD CEN/TS 15209. Material: Precast concrete. Manufacturer: Submit proposals. Product reference: Submit proposals. Recycled content: Not applicable. Nominal sizes: 450 x 450 mm. Colour: Buff. Type of surface: Blister type B1	8	m2		
	Kerbs				
B	Standard Kerb, 145 x 225mm high heavy duty precast concrete kerbs in silver grey / natural colour, splayed on one side and cast in 915mm lengths set on and including 300 x 150mm thick concrete foundation and 155 x 175 haunching Grade C30 / 37; inclusive of all excavaton, formwork, ends, angles, etc. complete, all per Architects drawings and specification	43	m		
	Sundries				
C	Brush finish to falls & cross falls on in-situ concrete slab	161	m2		
D	Bull nose edge	126	m		
E	Designed joints; form 12mm wide expansion joint in concrete slabs	29	m		
F	Fair joint with existing public footpath	11	m		
G	Fair joint with existing public roadway	34	m		
	Landscaping				
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness				
H	<250mm	2	m3		
	Topsoil				
J	Imported topsoil; spread and levelled; 250mm thick	9	m3		
	Planting				
K	Low level planting on footpath extension Lavandula angustifolia 'Hidcote' Ceanothus Thyrsiflorus Repens Anemone x Honorine Jobert (japanese anemone)	41	m2		

To Collection €

					€	c
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

				€	c
COLLECTION					
Page No. DVR SDW/4/1					
Page No. DVR SDW/4/2					
Page No. DVR SDW/4/3					
Page No. DVR SDW/4/4					
Page No. DVR SDW/4/5					
Page No. DVR SDW/4/6					
Page No. DVR SDW/4/7					
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Page No. DVR SDW/4/13					
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Page No. DVR SDW/4/15					
Page No. DVR SDW/4/16					
Page No. DVR SDW/4/17					
Page No. DVR SDW/4/18					
Page No. DVR SDW/4/19					
(40) ROADS, PATHS & PAVINGS - DVR **Carried to Summary**					

					€	c
	(50) SITE SERVICES (PIPED AND DUCTED) - DVR					
	General Information					
	LOCATION DRAWINGS: Location drawings for this Element are listed in the drawing registers.		Note			
	WORKS REQUIREMENTS: The Contractor is referred to the Drawing and Specifications which accompany this Pricing Document. All Bill of Quantities descriptions shall be read in conjunction with ths information.		Note			
	PRICING DOCUMENT: The Contractor must refer to the Drawings and Specifications for full specification notes and details relating to particular items of work. The Contractor shalll be deemed to have studied the Drawings and Specifications in detail and included for all items necessary for the proper completion of the Works as defined therein.		Note			
	New watermain, foul & storm water pipework to be installed and commissioned BEFORE removal or diversion of existing services & before commencement of proposed building works. Existing school water services to be operational throughout the construction works.		Note			
A	The Contractor shall (1) prepare a Traffic Management Plan for the works, (2) prepare and submit to Local Authority "application for license for openings / crossings to roads, footpaths, verges and open areas", (3) pay all charges to Local Authority to obtain appropriate license, (4) manage the construction activities in accordance with the Conditions of the Opening License and the Traffic Management Plan, to include the safe regulated diversion of pedestrians and vehicular traffic.		Item			
B	Provide where work is executed beyond the boundary of the site in the public roads & footpaths for adequate watching and lighting, traffic signalling; temporary barricades walking platforms and warning notices sufficient to ensure the safety of all persons and removing same on completion, and carrying out the work to Local Authority satisfaction.		Item			
				To Collection €		

					€	c
	In accordance with sub-clause 1.7 of Irish Water Codes of Practice, the Contractor shall procure a Chartered Engineer to issue the below confirmations in writing, as part of their final documents submission to Irish Water for a Conformance Certificate. For the avoidance of any doubt this Chartered Engineer is NOT the Civil/Structural Engineer retained by the Employer as part of the Design Team.					
A	Confirmation by a Chartered Engineer in writing that the Works has been installed in accordance with the design submitted in the Connection Application.		item			
B	Confirmation by a Chartered Engineer in writing that the Works has been installed in accordance with Codes of Practice and Standard Details.		item			
C	Confirmation by a Chartered Engineer in writing indicating that the Work have undergone appropriate on-site testing, off-site testing and commissioning and provision of associated test result certificates.		item			
	*****FOUL WATER DRAINAGE*****					
	DRAINAGE: Below Ground					
	The Wastewater Installation must comply with all aspects of Irish Water`s (1) Code of Practice for Wastewater Infrastructure, and (2) Wastewater Infrastructure Standard Details, included at Volume D for information.		Note			
	Excavating trenches					
	Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clause 808 granular material in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; non degradable marker tape complying with STD-WW-08					
	Pipes < or = 250mm nominal diameter					
D	depth 500 - 1000mm	91	m			
E	depth 1000 - 1500mm	257	m			
F	depth 1500 - 2000mm	13	m			
				To Collection €		

					€	c
	Breaking up rock					
A	trench depth 1000 - 1500mm; rock thickness 500mm	45	m			
	Disposal					
	Water					
B	surface		item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242 and complying with WIS 4-08-02, IGN 4-08-01 and STD-WW-07					
	550mm wide x 550mm thick					
C	100mm diameter pipes	78	m			
	600mm wide x 600mm thick					
D	150mm diameter pipes	54	m			
	750mm wide x 675mm thick					
E	225mm diameter pipes	124	m			
	In-situ concrete bed and surround grade C16/20 to IS EN 206-1; maximum 20mm aggregate; vibrated; expansion joint with compressible filler board at pipe joints; complying with STD-WW-08					
	550mm wide x 550mm thick					
F	100mm diameter pipes	65	m			
	600mm wide x 500mm thick					
G	150mm diameter pipes	40	m			
				To Collection €		

				€	c
	Pipes				
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification section 6 and Irish Water compliant				
	In trenches				
A	100mm diameter	143	m		
B	Extra over for short lengths < or = 3.00m	8	nr		
C	150mm diameter	94	m		
D	Extra over for short lengths < or = 3.00m	3	nr		
E	225mm diameter	124	m		
	Extra over pipes on which they occur for				
	Swept Bends; double socketed				
F	150mm diameter x 45/90 degrees	12	nr		
	D/S Moulded Mid Radius Rest Bend - 87.5 degrees				
G	150mm diameter	9	nr		
	Branches; triple socketed				
H	150mm x 100mm x 45/90 degrees	4	nr		
J	225mm x 150mm x 45/90 degrees	2	nr		
	Swept Bends; double socketed				
K	100mm diameter x 45/90 degrees	20	nr		

To Collection €

					€	c
	Pipe accessories					
	Gully Trap; S/S universal gully trap, combined with P/E universal gully hopper; galvanised metal grid cover; bed and surround in concrete					
	Gully Traps					
A	150mm diameter outlet	22	nr			
	Armstrong Junction					
	uP.V.C. Armstrong junction having two 150mm diameter inlets and one 150mm outlet, having 300 x 300mm galvanised hinged and lockable steel cover and frame set in cement mortar					
	Armstrong Junctions					
B	depth 500 - 1000mm	18	nr			
C	300mm diameter PVC raising pieces in forming access chambers to AJ's and include for surrounding with 150mm concrete and any necessary formwork	18	nr			
D	Extra over for ditto with recessed covers to take concrete paving Celsewhere measured)	8	nr			
	Inspection Chambers					
	Irish Water approved precast concrete private side inspection chamber; excavation, disposal, earthwork support, working space, backfilling in SR21 Annex E material; 225mm thick precast base or 225mm in-situ concrete grade C25/30; pipes built into chamber wall or joint formed with watertight seals; provide rocker pipe with flexible joints where pipelines pass through structures; forming channels, benching and the like for a complete installation; all as per Irish Water Code of Practice and STD-WW-13					
	600mm diamater or 600 x 600mm internal dimensions					
E	500 - 1000mm deep	3	nr			
F	1000 - 1500mm deep	3	nr			
G	Extra over for 600mm diameter load class D400 ductile iron cover and frame, including concrete biscuit	6	nr			

To Collection €

					€	c
	Manholes					
	Precast concrete manhole units complying with the requirements of IS EN 1917 and BS 5911-Part 3; excavation, disposal, earthwork support, working space, backfilling in clause 808 material; BASE: 75mm thick grade C/12/15 concrete blinding layer; grade C30/37 reinforced concrete base; invert formed with cast in-situ concrete grade C25/30, 20mm aggregate finished with a 1:3 cement sand mortar with steel trowel finish at 1:30 slope towards the channel; benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes; RINGS: precast concrete chamber rings to IS 420 and IS EN 1917:2004; first ring sunk into in-situ concrete base minimum 75mm; elastometric joint seals to EN 681; minimum 150mm thick grade C16/20 in-situ concrete surround externally; ROOF: reinforced concrete slab of in-situ concrete grade C30/37, with a minimum thickness of 225mm designed to carry all live and dead loads, alternatively approved precast concrete roof slabs may be used subject to Irish Water review and compliance with BS 5911-Part 4: 2002; 600mm diameter clear opening for cover and frame (measured elsewhere); SUNDRIES: galvanised mild steel and plastic encapsulated manhole steps complying with IS EN 13101, Type D, Class 1, spaced at 300mm staggered centres, for manholes up to 3.00m deep; including channels, benching and the like necessary for a complete installation; 600mm long rocket pipes on all inlet and outlet pipework; all as per Engineers specification section 6, Irish Water Code of Practice and STD-WW-10					
	1200mm internal diameter					
A	1000 - 1500mm deep	6	nr			
B	1000 - 1500mm deep; constructing on existing live foul sewer	1	nr			
	Ductile iron manhole cover and frame to BS EN 124:1994; bedding frame in cement and sand mortar (1:2); on Class B engineering bricks to IS 91 (min. 1 course, max. 3 courses high) to series 2400 of RCD; laid in cement and sand mortar (1:3) in upstand for manhole cover					
	Covers					
C	load class D400 - 600 x 600mm clear opening	7	nr			
D	Extra over for ditto recessed to take concrete paving Celsewhere measured)	3	nr			

				€	c
	Foul Water Drainage (Branch Connections) To Existing Combined Sewer				
	Sewer Connections				
	Work to existing Cork City Council combined foul and surface water on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work				
	Excavating trenches for pipes in trench not exceeding 225mm nominal size: disposing of surplus excavated material by removing from site. 525 x 525mm pea gravel, bed and surround; 225mm diameter uPVCpipe; backlfilling above pipe covering in lean mix concrete				
A	Average 1500mm - 2000mm deep	15	m		
	Extra over for excavating trenches irrespective of depth				
B	Crossing existing public tarmacadam roadway outside boundary of site, including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	15	m		
C	Excavating around existing services, parallel / next / alongside excavations	15	m		
D	Excavating around existing services, crossing excavations; ESB	2	No		
E	Excavating around existing services, crossing excavations; Eircom	2	No		
F	Excavating around existing services, crossing excavations; Watermain	2	No		
G	Excavating around existing services, crossing excavations; GAS	2	No		
H	Excavating around existing services, crossing excavations; Foul	2	No		
J	Excavating around existing services, crossing excavations; Surface	2	No		

To Collection €

				€	c
	Beds and surrounds				
	In-situ concrete bed and surround grade C16/20 to IS EN 206-1; maximum 20mm aggregate; vibrated; expansion joint with compressible filler board at pipe joints; complying with STD-WW-08				
A	225mm diameter pipes	15	m		
	Pipes				
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification section 6 and Irish Water compliant				
	In trenches				
B	225mm diameter	15	m		
	Extra over pipes on which they occur for				
	Swept Bends; double socketed				
C	225mm diameter x 45/90 degrees	4	nr		
	Sewer Connections				
	Work to existing Cork City Council combined foul and surface water on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work				
D	Labour and Material in connecting new 225mm diameter uPVC pipe to existing Cork City Council manhole; include for forming eyelet in MH wall, altering benching, jointing to main chamber and making good; invert level not exceeding 2.00m deep	1	no		
				To Collection €	

				€	c
	Testing and Commissioning				
	Foul water drainage system in accordance with Irish Water Code of Practice which includes; Air test on all pipelines to IS EN 752. Each section of pipeline to be tested on two occasions namely after installation but before backfilling AND after backfilling. All manholes to be tested for exfiltration to IS EN 1610 PRIOR to backfilling. All manholes to be tested for infiltration to CESWI AFTER backfilling. All As built information required by IW including as build layouts and details, CCTV survey footage and reporting, manhole condition surveys. Refer to CoP for full details of requirements.				
A	testing of foul water pipelines, manholes and inspection chambers; all as per Engineers specification clause R12 and IW CoP	1	item		
B	CCTV survey of foul water pipelines and manholes; all as per Engineers specification clause R12 and IW CoP	1	item		
	*****SURFACE WATER DRAINAGE*****				
	DRAINAGE: Below Ground				
	Excavating trenches				
	Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clean washed uniform graded stone (30% voids, no fines) in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; include for water permeable terrram lining to trench; non degradable marker tape; trench width 900mm; all as per Engineers Drawing				
	Pipes < or = 250mm nominal diameter				
C	depth 500 - 1000mm	132	m		
D	depth 1000 - 1500mm	116	m		
E	depth 1500 - 2000mm	306	m		
F	depth 2000 - 2500mm	5	m		
				To Collection €	

					€	c
	Extra over excavating trenches irrespective of depth					
	Breaking up rock					
A	trench depth 1500 - 2000mm; rock thickness 500mm	45	m			
	Excavating trenches to receive perforated pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with filter material to Clause 505 (Type B) in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; include for water permeable terrram lining to trench; non degradable marker tape; trench width 900mm; all as per Engineers Drawing C-0500					
	Pipes < or = 250mm nominal diameter					
B	depth 500 - 1000mm	104	m			
C	depth 1500 - 2000mm	106	m			
	Extra over excavating trenches irrespective of depth					
	Breaking up rock					
D	trench depth 1500 - 2000mm; rock thickness 500mm	5	m			
	Water					
E	surface		item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242					
	550mm wide x 550mm thick					
F	100mm diameter pipes	237	m			
	600mm wide x 500mm thick					
G	150mm diameter pipe	180	m			
	750mm wide x 575mm thick					
H	225mm diameter pipe	91	m			

To Collection €

					€	c
	Granular material to Clause 503.3 (i) to IS EN 13242					
	600mm wide x 500mm thick					
A	150mm diameter pipe	106	m			
	In-situ concrete to IS EN 206-1, compressive strength class C16/20; maximum aggregate size 20mm; vibrated; expansion joint with compressible filler board at pipe joints					
	450mm wide x 450mm thick					
B	100mm diameter pipe	65	m			
	450mm wide x 450mm thick					
C	150mm diameter pipe	40	m			
	Pipes					
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification					
	In trenches					
D	100mm diameter	168	m			
E	Extra over for short lengths < or = 3.00m	10	nr			
F	150mm diameter	240	m			
G	Extra over for short lengths < or = 3.00m	6	nr			
H	225mm diameter	91	m			
J	Extra over for short lengths < or = 3.00m	4	nr			

To Collection €

					€	c
	Extra over pipes on which they occur for					
	Swept Bends; double socketed					
A	150mm diameter x 45/90 degrees	21	nr			
	Branches; triple socketed					
B	150mm x 100mm x 45/90 degrees	2	nr			
C	225mm x 150mm x 45/90 degrees	2	nr			
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; Perforated pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification Section 6					
	In trenches					
D	100mm diameter; perforated	104	m			
E	150mm diameter; perforated	106	m			
F	Extra over for short lengths < or = 3.00m	2	nr			
	Extra over pipes on which they occur for					
	Swept Bends; double socketed					
G	150mm diameter x 45/90 degrees	1	nr			
	Pipe accessories					
	Gully Trap; S/S universal gully trap, combined with universal gully hopper; galvanised metal grid cover; bed and surround in concrete					
	Gully Traps					
H	150mm diameter outlet	18	nr			

				€	c
	Silt Trap				
	Silt Trap; 450mm diameter; include cover; bed and suuround in concrete				
A	100mm diameter outlet	6	nr		
	Armstrong Junction				
	uP.V.C. Armstrong junction having two 150mm diameter inlets and one 150mm outlet, having 300 x 300mm galvanised hinged and lockable steel cover and frame set in cement mortar				
	Armstrong Junctions				
B	depth 500 - 1000mm	16	nr		
C	300mm diameter PVC raising pieces in forming access chambers to AJ's and include for surrounding with 150mm concrete and any necessary formwork	16	nr		
D	Extra over for ditto with recessed covers to take concrete paving Celsewhere measured)	7	nr		
	"Wavin 450" or equivalent 450mm internal diameter non-entry PVC-U soild wall inspection chamber, manufactured and independently certified to EN13598-1; consisting of universal base unit to suit 150mm diameter inlet and outlet pipework, 450mm long shafts cut to suit depth; bed and surround unit in grade C12/15 in-situ concrete in accordance with the manufacturers written instructions; all as per Engineers specification				
	Inspection chambers - 450mm diameter				
E	depth 500 - 1000mm	21	nr		
	Precast concrete road gully chamber; 375mm diameter; 150mm diameter trapped outlets -1; road gully cover and frames; loading class D400; bedding frame in cement mortar; heavy duty, grit traps and rodding eyes; bedding and surround in concrete; all as per Engineers drawing no. C-0500 and specification				
	Road Gullys				
F	375 x 750mm	6	nr		

To Collection €

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	Drainage Channels				
	Drainage channel system with grating; CHANNEL: Aco M100D drainage channel, bedded and surrounded in reinforced concrete Grade C35; on 75mm thick concrete blinding; reinfocement bars and mesh, compacted Clause 804 granular fill, isolation joint both sides; COVER GRATING: heelguard cast iron grating all as per Engineers Drawing C-0500 and specification				
	Size 138mm wide x 150mm deep, including all drain unions, ends, outlets etc.				
A	generally	102	m		
	Manholes				
	Precast concrete manhole units complying with the requirements of IS EN 1917 and BS 5911-Part 3; excavation, disposal, earthwork support, working space, backfilling in clause 808 material; BASE: 75mm thick grade C/12/15 concrete blinding layer; grade C30/37 reinforced concrete base; invert formed with cast in-situ concrete grade C25/30, 20mm aggregate finished with a 1:3 cement sand mortar with steel trowel finish at 1:30 slope towards the channel; benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes; RINGS: precast concrete chamber rings to IS 420 and IS EN 1917:2004; first ring sunk into in-situ concrete base minimum 75mm; elastometric joint seals to EN 681; minimum 150mm thick grade C16/20 in-situ concrete surround externally; ROOF: reinforced concrete slab of in-situ concrete grade C30/37, with a minimum thickness of 225mm designed to carry all live and dead loads, alternatively approved precast concrete roof slabs may be used subject to Irish Water review and compliance with BS 5911-Part 4: 2002; 600mm diameter clear opening for cover and frame (measured elsewhere); SUNDRIES: galvanised mild steel and plastic encapsulated manhole steps complying with IS EN 13101, Type D, Class 1, spaced at 300mm staggered centres, for manholes up to 3.00m deep; including channels, benching and the like necessary for a complete installation; 600mm long rocket pipes on all inlet and outlet pipework; all as per Engineers specification				
	1200mm internal diameter				
B	1000 - 1500mm deep	4	nr		
C	1500 - 2000mm deep	7	nr		
D	1500 - 2000mm deep; petrol interceptor manhole	1	nr		
E	2000 - 2500mm deep	1	nr		

To Collection €

					€	c
A	2500 - 3000mm deep	1	nr			
	Ductile iron manhole cover and frame to BS EN 124:1994; bedding frame in cement and sand mortar (1:2); on Class B engineering bricks to IS 91 (min. 1 course, max. 3 courses high) to series 2400 of RCD; laid in cement and sand mortar (1:3) in upstand for manhole cover					
	Covers					
B	load class D400 - 600 x 600mm clear opening	14	nr			
C	Extra over for ditto recessed to take concrete paving (elsewhere measured)	6	nr			
	Extra over excavating [manholes] irrespective of depth for					
	Breaking up rock [1200mm internal diameter manholes]					
D	manhole depth 2000 - 2500mm; rock thickness 750mm thick	2	nr			
	Petrol Interceptor					
	Petrol Interceptor to Environment Agency PPG 3 and BS EN 858-1; Klargester NSBP Seperator or equivalent, with oil level alarm; all as per Engineers specification					
	Petrol Interceptor					
E	Petrol Interceptor	1	nr			
	Composite item; excavating, commencing at reduced level; earthwork supports; levelling and consolidating; disposal of surplus excavated material off site; 600mm Granular material Type B to clause 808; fill; 200mm thick concrete grade C37/20 base slab with A393 fabric mesh reinforcement on compacted granular fill material; when concrete base has cured place bypass interceptor into position and line up with inlet and outlet pipes; fill interceptor with water prior to backfilling and surround with grade C37/20 in-situ concrete; A393 mesh reinforcement; H10 L bars; backfill pits/trenches with granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242; all as per Engineers drawing no. C-0502 and specification					
	Builders Work In Connection with Bypass Interceptor					
F	generally	1	nr			

				€	c
	Soakaways				
	Composite item; excavation, commencing at reduced level; earthwork supports; level and compact bottom of excavation; disposal of surplus excavated material off site; attenuation storage system modules (measured elsewhere); clause 505 angular stone bed and surround, 230mm of stone below, 305mm of stone above, 230mm of stone between chambers / end caps and 40% stone porosity; including geotextile wrapped land drains; all as per Engineers drawing C-0500				
	Attenuation storage chamber system; crates to be Polystrom by Polypipe or equivlaent; chambers must conform to an internationally recognised manufacturing standard, i.e. ASTM F 2418-05 "Standard specification for polypropylene (PP) corrugated wall stormwater collection chambers" or equivalent, and come from ISO accredited manufacturing facility; chambers to have a European Agreement Certificate; system to have a 50 year design life; creep test date from independant body for minimum 10,000 hour test must be confirmed; all installed in strict accordance with manufacturers instructions / recommendations; all as per Engineers drawing no. C-0500 and specification				
	Attenuation chambers, including isolator row				
A	approx. 21.50m long x 4.0m wide x 1.50m deep (123m3 storage volume)	1	nr		
B	Extra for wrapping modules with impermeable HDPE geomembrane c/w protective geotextile, all joints and pipe penetrations heat welded and sealed	1	nr		
C	approx. 10.0m long x 1.50m wide x 1.50m deep (22m3 storage volume)	1	nr		
D	Extra for wrapping modules with impermeable HDPE geomembrane c/w protective geotextile, all joints and pipe penetrations heat welded and sealed	1	nr		
E	approx. 32.0m long x 4.0m wide x 1.50m deep (183m3 storage volume)	1	nr		
F	Extra for wrapping modules with impermeable HDPE geomembrane c/w protective geotextile, all joints and pipe penetrations heat welded and sealed	1	nr		

To Collection €

					€	c
	Composite item; excavation, commencing at reduced level; earthwork supports; level and compact bottom of excavation; disposal of surplus excavated material off site; attenuation storage system modules (measured elsewhere); clause 505 angular stone bed and surround, 230mm of stone below, 300mm of stone above, 400mm of filter stone above filter layer; including geotextile wrapped land drains; Perforated Class Manhole Cover; all as per Engineers drawing nr. C-0500					
	Builders Work In Connection with Attenuation Chambers					
A	approx. 21.50m long x 4.0m wide x 1.75m deep	1	nr			
B	approx. 10.0m long x 1.50m wide x 1.75m deep	1	nr			
C	approx. 32.0m long x 4.0m wide x 1.750m deep	1	nr			
	Bioretention Soakaways					
	Composite item; excavation, commencing at reduced level; earthwork supports; level and compact bottom of excavation; disposal of surplus excavated material off site; 300mm clause 505 angular stone bed, 400mm stone bed above filter layer; including geotextile layers					
	Bioretention soakaways					
D	approx. 37.00m long x 14.0m wide x 0.70m deep	1	nr			
E	approx. 205m2 in area; shaped x 0.70m deep	1	nr			
	Surface Water Drainage Land Drain to Perimeter of Existing Convent Building					
	Land Drain					
	Land Drain to Perimeter of Existing Convent Building					
F	Supply and lay 150mm diameter PVC land drain. include for all necessary excavation next to existing building, and disposal of excavated material off site and backfilling in peagravel including bed and surround and for lining sides, bases and top of trench in and including 1000G geotextile Membrane. Include also for connecting to stormwater system. All per Architect's drawing 300 and Engineers drawings and specifications	109	m			

To Collection €

					€	c
A	Extra over ditto for bed, surround and backfilling trench in Recyled foam glass gravel, Glapor or equivalent, Glapor recycled foam glass gravel or equivalent Type: 100% recycled foam glass all per Architect's Specification P10/550	99				
B	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	2	No.			
	Allow for timber edgings					
C	Timber Edgings; Pressure Treated Larch Board - Size: 200 mm x 50 mm; Fixing: Galvanized nails into 50 mm x 50 mm x 450 mm long Pressure Treated Larch Stakes into the ground at 1000 mm centres; Installation height: level with finished surface; Curved boards: Closely spaced vertical grooves cut in the back to achieve smooth flowing lines; Preservative treatment: As section Z12 and British Wood Preserving and Damp proofing Association Commodity Specification C4. all per Architect's drawing 300 & Specification Q22/100 & Q23/310	99	m			
	Surface Water Drainage (Branch Connections) To Existing Combined Sewer					
	Sewer Connections					
	Work to existing Cork City Council combined foul and surface water on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
	Excavating trenches for pipes in trench not exceeding 225mm nominal size: disposing of surplus excavated material by removing from site. 525 x 525mm pea gravel, bed and surround; 225mm diameter uPVCpipe; backlfilling above pipe covering in lean mix concrete					
D	Average 1500mm - 2000mm deep	18	m			
	Extra over for excavating trenches irrespective of depth					
E	Crossing existing public tarmacadam roadway including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	18	m			
F	Excavating around existing services, parallel / next / alongside excavations	18	m			

To Collection €

				€	c
A	Excavating around existing services, crossing excavations; ESB	2	No		
B	Excavating around existing services, crossing excavations; Eircom	2	No		
C	Excavating around existing services, crossing excavations; Watermain	2	No		
D	Excavating around existing services, crossing excavations; GAS	2	No		
E	Excavating around existing services, crossing excavations; Foul	2	No		
F	Excavating around existing services, crossing excavations; Surface	2	No		
	Beds and surrounds				
	In-situ concrete bed and surround grade C16/20 to IS EN 206-1; maximum 20mm aggregate; vibrated; expansion joint with compressible filler board at pipe joints; complying with STD-WW-08				
G	225mm diameter pipes	18	m		
	Pipes				
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification section 6 and Irish Water compliant				
	In trenches				
H	225mm diameter	18	m		
	Extra over pipes on which they occur for				
	Swept Bends; double socketed				
J	225mm diameter x 45/90 degrees	4	nr		

To Collection €

				€	c
	Sewer Connections				
	Work to existing Cork City Council combined foul and surface water on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work				
A	Labour and Material in connecting new 225mm diameter uPVC pipe to existing Cork City Council manhole; include for forming eyelet in MH wall, altering benching, jointing to main chamber and making good; invert level not exceeding 2.00m deep	1	no		
	Testing and Commissioning				
	Surface water drainage system in accordance with Irish Water Code of Practice which includes; Air test on all pipelines to IS EN 752. Each section of pipeline to be tested on two occasions namely after installation but before backfilling AND after backfilling. All manholes to be tested for exfiltration to IS EN 1610 PRIOR to backfilling. All manholes to be tested for infiltration to CESWI AFTER backfilling. All As built information required by IW including as build layouts and details, CCTV survey footage and reporting, manhole condition surveys. Refer to CoP for full details of requirements.				
B	testing of surface water pipelines, manholes and inspection chambers; all as per Engineers specification	1	item		
C	CCTV survey of surface water pipelines and manholes; all as per Engineers specification	1	item		
	WATERMAIN				
	WATERMAIN: Below Ground				
	The Water Installation must comply with all aspects of Irish Water`s (1) Code of Practice for Water Infrastructure, and (2) Water Infrastructure Standard Details, included at Volume D for information.		Note		
				To Collection €	

					€	c
	Excavating trenches					
	Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clause 808 granular material in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space					
	Pipes < or = 250mm nominal diameter					
A	depth 500 - 1000mm	8	m			
B	depth 1000 - 1500mm	236	m			
C	Extra for 400mm wide blue polyethylene marker tape to EN 12163, incorporating reinforcing band bracing wire and complying with STD-W-13	321	m			
	Disposal					
	Water					
D	surface	1	item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242 and complying with WIS 4-08-02, IGN 4-08-01 and STD-WW-08					
	300mm wide x 300mm thick bed and surround					
E	32mm diameter pipe	10	m			
	400mm wide x 300mm thick bed and surround					
F	65mm diameter pipe	9	m			
	500mm wide x 550mm thick bed and surround					
G	100mm diameter pipe	177	m			
	Pipes					
	Polyethylene mains, HPPE (PE-100) SDR 17 pipes and fittings in accordance with IS EN 12201; JOINTS: fusion welded joints; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
H	100mm nominal diameter	219	m			

To Collection €

					€	c
	Polyethylene service pipe, MDPE (PE-80) SDR 11 pipes and fittings in accordance with IS EN 12201; JOINTS: not permitted; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
A	65mm nominal diameter	9	m			
	Polyethylene service pipe, MDPE (PE-80) SDR 11 pipes and fittings in accordance with IS EN 12201; JOINTS: not permitted; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
B	32mm nominal diameter	10	m			
	Extra over pipes on which they occur for					
	Swept Bend					
C	100mm diameter x 45/90 degrees	13	nr			
	Branch					
D	100mm diameter x 65mm diameter	4	nr			
	Swept Bend					
E	65mm diameter x 45/90 degrees	3	nr			
	Branch					
F	65mm diameter x 32mm diameter	9	nr			
	Pipe accessories					
	Fittings; all as per section 3.16 of Irish Water Code of Practice (IW-CDS-5020-03)					
	Sluice valves; all as per section 3.16.2 of Irish Water Code of Practice (IW-CDS-5020-03)					
G	generally	3	nr			
	Fire Hydrants valve; as per section 3.16.5 of Irish Water Code of Practice (IW-CDS-5020-03)					
H	generally	3	nr			

To Collection €

					€	c
	Water Meters; as per section 3.15.4 of Irish Water Code of Practice (IW-CDS-5020-03)					
A	generally	1	nr			
	Flow Meters; as per section 3.17 of Irish Water Code of Practice (IW-CDS-5020-03)					
B	generally	2	nr			
	Concrete post and foundation; Identification plates, labels and the like; all as per Irish Water STD-W-27					
C	sluice valves; complete with insitu concrete mark post	3	nr			
D	fire hydrants; complete with insitu concrete mark post	3	nr			
E	water meter; complete with insitu concrete mark post	1	nr			
F	flow meter; complete with insitu concrete mark post	2	nr			
	Chambers					
	Hydrant, Air valves, Sluice Valve and Scour Valve Chambers; all as per section 3.18 of Irish Water Code of Practice (IW-CDS-5020-03)					
	Sluice Valve chamber; all as per Engineers drawing no. 03 and WIS- STD-W-5					
G	internal chamber dimensions 600 x 600mm, cover dimensions 445 x 280mm	3	nr			
	Fire hydrant chamber; all as per Engineers drawing no. 03 and WIS- STD-W-5					
H	internal chamber dimensions 600 x 600mm, cover dimensions 445 x 280mm	3	nr			
	Water Meters chamber; all as per section 3.19 of Irish Water Code of Practice (IW-CDS-5020-03)					
J	internal chamber dimensions 600 x 600mm, cover dimensions 445 x 280mm	1	nr			
	Flow Meter chamber; all as per section 3.20 of Irish Water Code of Practice (IW-CDS-5020-03)					
K	internal chamber dimensions 600 x 600mm, cover dimensions 445 x 280mm	2	nr			

To Collection €

				€	c
	Thrust / Anchor blocks				
	In-situ concrete; grade C16/20 to IS EN 206-1; all necessary excavation and disposal, formwork as required; all as per section 4.6 of Irish Water Code of Practice (IW-CDS-5020-03)				
A	thrust blocks; 450mm x 450mm x 450mm	11	nr		
	Water Stoarage Tank; 90,000 litre capacity				
B	Water Storage Tank	1	nr		
	Composite item; excavating, commencing at reduced level; earthwork supports; levelling and consolidating; disposal of surplus excavated material off site; 200mm thick concrete grade C37/20 base slab with A393 fabric mesh reinforcement on compacted granular fill material; when concrete base has cured place water stoarge into position and line up with inlet and outlet pipes; fill tank with water prior to backfilling and surround with granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242; all as per Engineers drawing and specification				
	Builders Work In Connection with Water Storage Tank				
C	generally	1	nr		
	Watermain Connection To Existing Main				
	Water Connections				
	Work to existing Irish Water main on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work				
	Excavating trenches for pipes in trench not exceeding 225mm nominal size: disposing of surplus excavated material by removing from site. 525 x 525mm pea gravel, bed and surround; 100mm diameter HPPE (PE-100) SDR 17 pipes; backlfilling above pipe covering in lean mix concrete				
D	Average 1000mm - 1500mm deep	16	m		

To Collection €

					€	c
	Extra over for excavating trenches irrespective of depth					
A	Crossing existing public tarmacadam roadway outside boundary of site, including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	16	m			
B	Excavating around existing services, parallel / next / alongside excavations	18	m			
C	Excavating around existing services, crossing excavations; ESB	2	No			
D	Excavating around existing services, crossing excavations; Eircom	2	No			
E	Excavating around existing services, crossing excavations; Watermain	2	No			
F	Excavating around existing services, crossing excavations; GAS	2	No			
G	Excavating around existing services, crossing excavations; Foul	2	No			
H	Excavating around existing services, crossing excavations; Surface	2	No			
	Beds and surrounds					
	In-situ concrete bed and surround grade C16/20 to IS EN 206-1; maximum 20mm aggregate; vibrated; expansion joint with compressible filler board at pipe joints; complying with STD-WW-08					
J	100mm diameter pipes	16	m			
	Pipes					
	Polyethylene mains, HPPE (PE-100) SDR 17 pipes and fittings in accordance with IS EN 12201; JOINTS: fusion welded joints; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
K	100mm nominal diameter	16	m			
	Extra over pipes on which they occur for					
	Swept Bend					
L	100mm diameter x 45/90 degrees	2	nr			

To Collection €

					€	c
	Pipe accessories					
	Fittings; all as per section 3.16 of Irish Water Code of Practice (IW-CDS-5020-03)					
	Sluice valves; all as per section 3.16.2 of Irish Water Code of Practice (IW-CDS-5020-03)					
A	generally	3	nr			
	Concrete post and foundation; Identification plates, labels and the like; all as per Irish Water STD-W-27					
B	sluice valves; complete with insitu concrete mark post	3	nr			
	Chambers					
	Hydrant, Air valves, Sluice Valve and Scour Valve Chambers; all as per section 3.18 of Irish Water Code of Practice (IW-CDS-5020-03)					
	Sluice Valve chamber; all as per Engineers drawing no. 03 and WIS- STD-W-5					
C	internal chamber dimensions 600 x 600mm, cover dimensions 445 x 280mm	3	nr			
	Mains Connections					
	Work to existing Irish Watermain on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
D	Connecting new 100mm diameter HPPE (PE-100) SDR 17 pipes to existing Irish Water Main; include for saddle connection to existing water mains pipe to the satisfaction of Irish Water	1	no			
				To Collection €		

					€	c
	Testing and Commissioning Watermains in accordance with Irish Water Code of Practice which includes swabbing, disinfecting, flushing and chlorinating; the need for certified operatives, short term burst test and joint toughness test (prior to pipe laying) both undertaken by accredited laboratory, electrofusion welds are to be cut out from completed Works and subjected to destructive testing as indicated by IW. Allow for 2 electrofusion samples to be cut out per week or 8 in total whichever is greater, for testing by accredited laboratory. The frequency of destructive testing shall increase if failure as defined by IW of a sample occurs. All necessary as build information required by IW including as build drawings and GPS information on all fittings/joints. All as per Engineers specification section 6 and IW CoP.					
A	weld testing	1	item			
B	pressure testing	1	item			
C	scouring and swabbing	1	item			
D	disinfection	1	item			
E	bacteriological and chemical sampling	1	item			
F	flushing	1	item			
G	final documents	1	item			
	<u>Testing, Surveys, Samples & Warranties</u> <u>Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements</u>					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
	<u>Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements</u>					
M	Testing		Item			
N	Surveys		Item			
P	Samples		Item			
Q	Warranties		Item			

To Collection €

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COLLECTION					
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(50) SITE SERVICES (PIPED AND DUCTED) - DVR Carried to Summary					

					€	c
	(60) SITE SERVICES (MAINLY ELECTRICAL) - DVR					
	General Information					
	LOCATION DRAWINGS: Location drawings for this Element are listed in the drawing registers.		Note			
	WORKS REQUIREMENTS: The Contractor is referred to the Drawings and Specifications which accompany this Pricing Document. All Bill of Quantities descriptions shall be read in conjunction with this information.		Note			
	PRICING DOCUMENT: The Contractor must refer to the Drawings and Specifications for full specification notes and details relating to particular items of work. The Contractor shall be deemed to have studied the Drawings and Specifications in detail and included for all items necessary for the proper completion of the Works as defined therein.		Note			
A	The Contractor shall (1) prepare a Traffic Management Plan for the works, (2) prepare and submit to Local Authority "application for license for openings / crossings to roads, footpaths, verges and open areas", (3) pay all charges to Local Authority to obtain appropriate license, (4) manage the construction activities in accordance with the Conditions of the Opening License and the Traffic Management Plan, to include the safe regulated diversion of pedestrians and vehicular traffic.		Item			
B	Provide where work is executed beyond the boundary of the site in the public roads & footpaths for adequate watching and lighting, traffic signalling; temporary barricades walking platforms and warning notices sufficient to ensure the safety of all persons and removing same on completion, and carrying out the work to Local Authority satisfaction.		Item			
	WORK BY OTHERS ENGAGED DIRECTLY BY THE EMPLOYER					
	Utility Providers					
	Manage, co-ordinate and provide all general and special attendances as required to the following utility providers:					
C	ESB Networks - mini-pillars, micro-pillars, mains cabling and unit connections	1	item			
	INCOMING ESB SUPPLY DUCTING					

To Collection €

					€	c
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
A	depth 500 - 1000mm [4 nr. 125mm diameter cable ducts]	37	m			
B	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	37	m			
C	Extra for ESB Red Marker Tape; 400mm wide; ESB Code 2955103	37	m			
	Disposal					
	Water					
D	surface		item			
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	600mm wide x 350mm thick					
E	4 nr. 125mm diameter cable ducts	37	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
F	125mm diameter	148	m			

To Collection €

					€	c
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
A	125mm diameter	8	nr			
	Cable duct bends; 11/22.5/45 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
B	125mm diameter	12	nr			
	Bases					
	Composite item, ESB sub-station foundation plinth; mass concrete grade C25/30 base; include for all necessary excavation, disposal of excavated material off site, backfilling and formwork; include for 450mm diameter vertical pipe sleeve, include for wedges and non shrink grout to position lamp standard; complete with 125mm duct at 45 degree fall; include for draw wire for cable entry; all as per Service Engineers drawing no. E27					
	Sub Station Base					
C	2600 x 2200 x 915mm deep	1	nr			
	Mains					
	Connection to existing underground ESB cable ducts via jointing pit; locating and connecting into existing 125mm uPVC pipe connections; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing LV cable ducts					
D	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
E	brush and mandrel	1	item			

To Collection €

					€	c
	Connection to Existing ESB Network					
	Work to existing ESB Network on live line on Evergreen Road which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
A	depth 500 - 1000mm [4 nr. 125mm diameter cable ducts]	18	m			
B	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	18	m			
C	Extra for ESB Red Marker Tape; 400mm wide; ESB Code 2955103	18	m			
	Disposal					
	Water					
D	surface		item			
	Beds and surrounds					
	ESB Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	600mm wide x 350mm thick					
E	4 nr. 125mm diameter cable ducts	18	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
F	125mm diameter	72	m			

To Collection €

				€	c
	Extra over pipes on which they occur for				
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling				
	Cable duct bends; 22.5 degrees				
A	125mm diameter	6	nr		
	Cable duct bends; 11/22.5/45 degrees; including minimum 200mm thickness of CBM4 on inside of bend				
B	125mm diameter	4	nr		
	Extra over for excavating trenches irrespective of depth				
C	Crossing existing public tarmacadam roadway (Evergreen Road) including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	18	m		
D	Excavating around existing services, parallel / next / alongside excavations	18	m		
E	Excavating around existing services, crossing excavations; ESB	2	No		
F	Excavating around existing services, crossing excavations; Eircom	2	No		
G	Excavating around existing services, crossing excavations; Watermain	2	No		
H	Excavating around existing services, crossing excavations; GAS	2	No		
J	Excavating around existing services, crossing excavations; Foul	2	No		
K	Excavating around existing services, crossing excavations; Surface	2	No		
	Connections				
L	Connections on existing public tarmacadam roadway (Evergreen Road) including saw cutting and permanent re-instatement on completion to match existing, all to Engineers satisfaction; new 2 No. x 125mm diameter uPVC ducts pipe to existing ESB Networks include for 1 No. ESB jointing chamber and making good; invert level not exceeding 2.00m deep	1	no		
				To Collection €	

				€	c
A	Connections on existing public tarmacadam roadway (Evergreen Road) including saw cutting and permanent re-instatement on completion to match existing, all to Engineers satisfaction; new 1 No. x 125mm diameter uPVC ducts pipe to new ESB Networks mini pillar include for insitu conrete base to minipillar and making good; invert level not exceeding 2.00m deep	1	no		
	Testing and commissioning				
	As per ESB specification				
B	generally	1	item		
	*****ESB ELECTRICAL DUCTING (Transformer to West Block)*****				
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground				
	Excavating trenches				
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material				
	Pipes < or = 250mm nominal diameter				
C	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	44	m		
D	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	44	m		
	Disposal				
	Water				
E	surface		item		
	Beds and surrounds				
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier				
	350mm wide x 350mm thick				
F	1 nr. 125mm diameter cable duct	44	m		
				To Collection €	

					€	c
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
A	125mm diameter	44	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
B	125mm diameter	4	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
C	125mm diameter	4	nr			
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125					
	Draw pit / access chamber					
D	960mm x 875mm x 1025mm deep	1	nr			

To Collection €

					€	c
	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
A	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
B	brush and mandrel	1	item			
	*****ESB ELECTRICAL DUCTING (Transformer to East Block)*****					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
C	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	45	m			
D	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	45	m			
	Disposal					
	Water					
E	surface		item			
				To Collection €		

					€	c
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
A	1 nr. 125mm diameter cable duct	45	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
B	125mm diameter	45	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
C	125mm diameter	4	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
D	125mm diameter	4	nr			
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125					
	Draw pit / access chamber					
E	960mm x 875mm x 1025mm deep	1	nr			
				To Collection €		

					€	c
	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
A	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
B	brush and mandrel	1	item			
	*****ESB LOW VOLTAGE ELECTRICAL DUCTING*****					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
C	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	248	m			
D	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	248	m			
	Disposal					
	Water					
E	surface		item			

					€	c
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
A	1 nr. 125mm diameter cable duct	248	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
B	125mm diameter	248	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
C	125mm diameter	12	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
D	125mm diameter	12	nr			
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125					
	Draw pit / access chamber					
E	450mm x 450mm x 750mm deep	3	nr			
F	615mm x 615mm x 850mm deep	11	nr			
				To Collection €		

					€	c
A	960mm x 875mm x 1025mm deep	1	nr			
	Polypropylene duct chamber adjacent to each light column; 450 x 450mm square, minium Class C250 C/W cast iron lid and frame; refer to Engineers specification and drawing (6-)E001					
	Duct Chamber					
B	450mm x 450mm x 750mm deep	21	nr			
	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
C	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
D	brush and mandrel	1	item			
	*****SITE LIGTING DUCTING*****					
E						
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
F	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	394	m			
G	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	394	m			

To Collection €

					€	c
	Disposal					
	Water					
A	surface		item			
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
B	1 nr. 125mm diameter cable duct	394	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
C	125mm diameter	394	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
D	125mm diameter	18	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
E	125mm diameter	18	nr			

To Collection €

					€	c
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125					
	Draw pit / access chamber					
A	615mm x 615mm x 850mm deep	12	nr			
B	960mm x 875mm x 1025mm deep	1	nr			
	Polypropylene duct chamber adjacent to each light column; 450 x 450mm square, minium Class C250 C/W cast iron lid and frame; refer to Engineers specification and drawing (6-)E001					
	Duct Chamber					
C	generally	21	nr			
	Bases					
	Composite item, lamp standard base; mass concrete grade C25/30 base; include for all necessary excavation, disposal of excavated material off site, backfilling and formwork; include for 450mm diameter vertical pipe sleeve, include for wedges and non shrink grout to position lamp standard; complete with 125mm duct at 45 degree fall; include for draw wire for cable entry					
	Lamp standard base					
D	750 x 750 x 1500mm deep - [6m high above ground lighting column]	9	nr			
E	750 x 750 x 1500mm deep - [6m high above ground CCTV poles]	3	nr			
F	500 x 500 x 500mm deep - [lighting bollards]	16	nr			
	Testing and Commissioning					
	Cleaning and proving each duct as per specification					
G	brush and mandrel	1	item			

To Collection €

					€	c
	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
A	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
B	brush and mandrel	1	item			
C						
	*****ESB ELECTRICAL DUCTING (FUTURE DUCTS)*****					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
D	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	125	m			
E	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	125	m			
	Disposal					
	Water					
F	surface		item			

To Collection €

					€	c
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
A	1 nr. 125mm diameter cable duct	125	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
B	125mm diameter	125	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
C	125mm diameter	6	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
D	125mm diameter	6	nr			
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125					
	Draw pit / access chamber					
E	960mm x 875mm x 1025mm deep	2	nr			

To Collection €

					€	c
	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
A	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
B	brush and mandrel	1	item			
	*****EV DUCTING*****					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
C	depth 1000 - 1500mm [1 nr. 100mm diameter cable duct]	145	m			
D	depth 1000 - 1500mm [2 nr. 100mm diameter cable duct]	32	m			
E	depth 1000 - 1500mm [4 nr. 125mm diameter cable duct]	15	m			
F	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	271	m			
	Disposal					
	Water					
G	surface		item			

					€	c
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
A	1 nr. 125mm diameter cable duct	145	m			
	750mm wide x 350mm thick					
B	2 nr. 125mm diameter cable duct	32	m			
	1600mm wide x 350mm thick					
C	4 nr. 125mm diameter cable duct	15	m			
	Cable Ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
D	125mm diameter	269	m			
	Extra over cable ducts on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
E	125mm diameter	6	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
F	125mm diameter	6	nr			

To Collection €

					€	c
	Chambers					
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125, clear opening 765 x 728mm					
	Draw pit / access chamber					
A	generally	5	nr			
	Testing and Commissioning					
	Cleaning and proving each duct as per specification					
B	brush and mandrel	1	item			
	ELV Concrete Base					
C	Form 1200 x 1200 x 2000mm thick concrete grade 35 base, including formwork, reinforcement, excavation, disposal of excavated material off site etc. complete and casting in 4no. 125mm diameter swept bends etc.	1	No			
	ESB Mini Pillar					
D	Take delivery of and fit standard ESB Mini-Pillar box, include for 750 x 600 x 150mm thick concrete grade 35 base, formwork, excavation and casting in 2no. 125mm diameter swept bends etc.	1	No			
	Bollard Protection to Charging Point					
	Provide and install proprietary stainless steel 316 remobable bollard including 6mm thick hinged lid with lock facility; include for setting in reinforced concrete Grade C30 base (elsewhere measured), all as per Engineer's drawing & specifications					
E	Height 1200mm x 89mm diameter	4	No			
	Bollard Bases					
	Excavate for and form reinforced concrete grade C30 bollard base; include for all necessary excavation, concrete, formwork, casting in proprietary sleeve to receive bollard complete. Foundation Size;					
F	400mm x 400mm x 400mm deep	4	No			
				To Collection €		

					€	c
	Disposal					
	Keeping the surface of the site and excavations free of					
A	Surface Water	1	Item			
B	Ground Water	1	Item			
	TELECOM DUCTING					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with SR 21 Annex E granular sub base material; working space					
	Pipes < or = 250mm nominal diameter - [Mains services to chambers]					
C	depth 1000 - 1500mm [2 nr. 100mm diameter Telecom cable ducts]	130	m			
D	Extra for Yellow Marker Warning Tape	130	m			
	Disposal					
	Water					
E	surface		item			
	Beds and surrounds					
	Sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	500mm wide x 450mm thick					
F	2 nr. 100mm diameter Telecom cable ducts	130	m			

To Collection €

					€	c
	Cable Ducts					
	Telecom approved grey solid wall uPVC cable duct, with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
A	100mm diameter	260	m			
	Extra over pipes on which they occur for					
	Bends: 22.5/45/90 degrees					
B	100mm diameter	10	nr			
	Chambers					
	Telecom chamber; grade C25/30 concrete in a 150mm thick base and cover slab; formwork; A393 mesh reinforcement; excavation; disposal; 215mm blockwork walls; include for precast concrete lintels over all openings; largest duct 125mm diameter; 18mm sand and cement render to all internal faces; opening to be formed in cover slab for manhole cover; ductile iron cover in a galvanised steel frame; overall opening size 765 x 720mm; bedding and surrounding frame in concrete					
	Telecom chambers					
C	JB4	6	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per Utility Providers specification					
D	brush and mandrel	1	item			
	TELECOM DUCTING					
				To Collection €		

					€	c
	Connection to Existing ESB Network					
	Work to existing ESB Network on live line on Evergreen Road which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with SR 21 Annex E granular sub base material; working space					
	Pipes < or = 250mm nominal diameter - [Mains services to chambers]					
A	depth 1000 - 1500mm [2 nr. 100mm diameter Telecom cable ducts]	18	m			
B	Extra for Yellow Marker Warning Tape	18	m			
	Disposal					
	Water					
C	surface		item			
	Beds and surrounds					
	Sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	500mm wide x 450mm thick					
D	2 nr. 100mm diameter Telecom cable ducts	18	m			
	Cable Ducts					
	Telecom approved grey solid wall uPVC cable duct, with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
E	100mm diameter	36	m			

				€	c
	Extra over pipes on which they occur for				
	Bends: 22.5/45/90 degrees				
A	100mm diameter	4	nr		
	Testing and commissioning				
	Cleaning and proving each duct as per Utility Providers specification				
B	brush and mandrel	1	item		
	Extra over for excavating trenches irrespective of depth				
C	Crossing existing public tarmacadam roadway (Evergreen Road) including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	18	m		
D	Excavating around existing services, parallel / next / alongside excavations	18	m		
E	Excavating around existing services, crossing excavations; ESB	2	No		
F	Excavating around existing services, crossing excavations; Eircom	2	No		
G	Excavating around existing services, crossing excavations; Watermain	2	No		
H	Excavating around existing services, crossing excavations; GAS	2	No		
J	Excavating around existing services, crossing excavations; Foul	2	No		
K	Excavating around existing services, crossing excavations; Surface	2	No		
	<u>Connections</u>				
L	Connections on existing public tarmacadam roadway (Evergreen Road) including saw cutting and permanent re-instatement on completion to match existing, all to Engineers satisfaction; 2 No. x 100mm diameter uPVC ducts pipe to existing Telecom Networks include for 1 No. Telecom jointing chamber and making good; invert level not exceeding 2.00m deep	1	no		
				To Collection €	

					€	c
	Testing and commissioning					
	As per Telecom providers specification					
A	generally	1	item			
	*****GAS LINE*****					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with SR 21 Annex E granular sub base material; working space					
	Pipes < or = 250mm nominal diameter					
B	depth 1000 - 1500mm [1 nr. 100mm diameter EIR cable duct]	124	m			
C	Extra for Yellow Marker Warning Tape	124	m			
	Disposal					
	Water					
D	surface		item			
	Beds and surrounds					
	Sand bedding and surround to pipes; EN 12620 natural unwashed sand from approved supplier					
	450mm wide x 450mm thick					
E	1 nr. 63mm diameter Gas pipe	124	m			
	Pipes					
F	Gas Networks Ireland 63mm diameter PE pipe; all laying and jointing in accordance with GNI instructions					
	In trenches					
G	63mm diameter	124	m			

To Collection €

					€	c
	Gas Connection to					
	Work to existing Gas Networks on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with SR 21 Annex E granular sub base material; working space					
	Pipes < or = 250mm nominal diameter					
A	depth 1000 - 1500mm [1 nr. 63mm diameter gas pipe]	16	m			
B	Extra for Yellow Marker Warning Tape	16	m			
	Disposal					
	Water					
C	surface		item			
	Extra over for excavating trenches irrespective of depth					
D	Crossing existing public tarmacadam roadway outside boundary of site, including saw cutting both sides of trench and permanent re-instatement on completion to match existing, all to Engineers satisfaction	16	m			
E	Excavating around existing services, parallel / next / alongside excavations	16	m			
F	Excavating around existing services, crossing excavations; ESB	2	No			
G	Excavating around existing services, crossing excavations; Eircom	2	No			
H	Excavating around existing services, crossing excavations; Watermain	2	No			
J	Excavating around existing services, crossing excavations; GAS	2	No			
K	Excavating around existing services, crossing excavations; Foul	2	No			
L	Excavating around existing services, crossing excavations; Surface	2	No			

To Collection €

					€	c
	Beds and surrounds					
	Sand bedding and surround to pipes; EN 12620 natural unwashed sand from approved supplier					
	450mm wide x 450mm thick					
A	1 nr. 63mm diameter Gas pipe	16	m			
	Pipes					
B	Gas Networks Ireland 63mm diameter PE pipe; all laying and jointing in accordance with GNI instructions					
	In trenches					
C	63mm diameter	16	m			
	Extra over pipes on which they occur for					
	Swept Bends; double socketed					
D	63mm diameter x 45/90 degrees	4	nr			
	Pipe Connections					
	Work to existing Gas Networks on live line which must continue to function at all times per Engieners Drawings; contractor to allow for all necessary traffic management during the carrying out of the work					
E	Connecting new 63mm diameter PE pipe to existing Gas Networks main include for joining to main with saddle connection and making good; invert level not exceeding 2.00m deep	1	no			
	Testing and commissioning					
	As per Gas Networks Ireland specification					
F	generally	1	item			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			
				To Collection €		

					€	c
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			

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COLLECTION					
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COLLECTION					
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Page No. DVR SDW/6/27					
(60) SITE SERVICES (MAINLY ELECTRICAL) - DVR Carried to Summary					

					€	c
	(70) SITE FITTINGS - DVR					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 104, 105, 710, 711 & Architects Specification		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Cycle Stands					
F	Stainless Steel Cycle Stands; 1. Quantity - as shown on Architectural Drawing 105 2. Manufacturer: Submit proposal 2.1. Product reference: Sheffield Cycle Parking Stand (BXMW/GS0 Senior With Tapping Bar Sheffield Cycle Stand) 3. Stand type: Sheffield Cycle Stand 4. Number of stands: Single. 5. Base: Submerged baseplate. 6. Finish as delivered: Stainless steel. 7. Size:: 800 x 715 mm. Inclusive of all fixings, base plates etc. Inclusive also of bases and required excavation, disposal off site, concrete, formwork, reinforcement etc. complete, fixings, base plates. All in accordance with Architects Specification Q50	10	No			
				To Collection €		

					€	c
	Seating					
	Composite Item					
	1. Description: Location - refer Architectural Drawing 105. 2. Manufacturer: Omos 2.1. Product reference: S56 Bench 3. Material: Hardwood timber seat with cut stone ends and galvanized mild steel frame 4. Size: 2m length x 615 width x 455 height 5. Accessories/ Special requirements: Anti-graffiti coating 6. Method of fixing: Anchored base with concealed fixing. Inclusive also of bases and required excavation, disposal off site, concrete, formwork, reinforcement etc. complete. All in accordance with Architects Specification Q50					
A	Overall 2000mm long x 615mm wide x 455mm high; hardwood timber seat with cut stone ends and galvanised mild steel frame	9	No			
	Litter Bins					
B	1. Description: bin locations to be agreed with architect 2. Manufacturer: Omos 2.1. Product reference: s50 steel litter bin 3. Material: 316 Grade Stainless steel 4. Method of fixing: Base plate bolted to 400 x 400 x 400 mm concrete base 100 mm below paving surface and inclusive of all associated excavation, disposal off site, concrete, formwork, reinforcement etc. complete, fixings, base plates. All in accordance with Architects Specification Q50	2	No			
	External Clothes Dying Racks					
C	1. Location: Drying Area to East of DVR (East Block) Provide 4 no. racks - with 2 tiers each 2. Manufacturer: Submit Proposals 3. Size: 2 tier rack, 1m length x 550mm deep 4. Material: Galvanised and powdercoated steel. Inclusive of all associated fixings, complete	1	Item			
				To Collection €		

					€	c
	Signage					
	Signage; supply and fix complete; including backing board, post and all fittings; excavation, disposal off site, backfilling with selected excavated material compacted in layers; 450 x 450 x 700mm deep in-situ concrete grade C30/20 base; formwork; reinforcement complete					
	External Signage as per Architects Drawing 710, 711 and Specification N14/200; powdercoated aluminium sign and frame; lettering and translations into Irish Language to Architects later selection and approval					
A	Sign Type EX-01 - External Information Panel; 1300 x 460mm high sign; fixed to support posts	1	no			
B	Sign Type EX-02 - Set Down Area; 1000 x 230mm high sign; fixed to support posts	1	no			
	External Signage as per Architects Drawing 710, 711 and Specification N14/200; Grade 316 stainless plate; lettering and translations into Irish Language to Architects later selection and approval; with Braille included in colour band					
C	Sign Type EX-03 - External Room Signs; 200 x 200mm high sign; fixed to wall	5	no			
D	Sign Type EX-05 - Housing Front Door Sign; 1000 x 1000mm high sign; fixed to wall	1	no			
	Bollards					
E	Stainless steel Removable Flip Lid Retention Socket. When installed the socket is flush with the finished ground. The bollard is locked to the socket with padlock and the when the bollard is removed the flip lid covers the hole where the bollard was in place. Size:114mm diameters. No. Off: 2 Foundations: 500 x 500 x 300mm concrete pad on 150mm hardcore. Inclusive of associated excavation, disposal of excavated materials off site etc. complete	15	No			
	Balustrade					
	The following balustrade shall be fabricated for Grade 304 stainless steel having all welds ground smooth include for all necessary site welding and fixing, concrete bases in:					
F	75mm tubular stainless steel continuous balustrade & handrail; 900mm high, with 50mm diameter stainless steel 'middle posts' at 870mm c/c; complete inclusive of all required drilling, fixings, plates, welding, bolts, etc. complete	10	m			
G	Ditto; raking	48	m			

To Collection €

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	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
A	Testing		Item			
B	Surveys		Item			
C	Samples		Item			
D	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			
H	Warranties		Item			

To Collection €

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COLLECTION					
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(70) SITE FITTINGS - DVR **Carried to Summary**					

					€	c
	(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - DVR					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 104, 105 & Architects Specification		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Play Equipment					
	Supply and fix in position the following equipment including all necessary bolts, anchorages and fixings, treatment of timber, on site painting generally; include also for all necessary Reinforced Concrete Foundations / Bases, digging, disposal of excavated materal off site, etc. complete. all to the satisfaction of the Architect and as per Specification Section Q52 in the following:					
	Play Swings					
F	Play Swings in accordance with Architects Specification Q52/340A	1	No			
	Imaginative play structures					
G	Imaginative play structures in accordance with Architects Specification Q52/340C	3	No			
	See-saws					
H	See-saws in accordance with Architects Specification Q52/340D	2	No			
	Combined play structures					
J	Combined play structure in accordance with Architects Specification Q52/340F	1	No			
				To Collection €		

				€	c
	Combined play structures				
A	Combined play structure in accordance with Architects Specification Q52/340G	7	No		
	Play slides				
B	Play slides in accordance with Architects Specification Q52/340H	2	No		
	Wheelchair Accessible Carousel				
C	Wheelchair Accessible Carousel in accordance with Architects Specification Q52/340J	1	No		
	PlayGround Surfacing				
	Filling; hardcore to Clause 804 granular sub-base material Type B to NRA Specification; spread and levelled; in making up levels; compacted in layers in accordance with Clause 802 of the NRA Specification; average thickness:-				
D	< 0.25m	16	m3		
	Surface Treatments				
E	50mm thick limestone fines blinding	102	m2		
	In-situ synthetic safety surface - PlayGround				
	1. Sub-base: Coated macadam paving 1.1. Thickness: 100mm - or to manufacturer's recommendations 2. Surface course: Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface. 2.1. Manufacturer: HMS Decorative Surfacing Limited 2.1.1. Product reference: DecraPlay EPDM Wet Pour Safety Surfacing 2.2. Standard: To BS 7188. 2.3. Colour: Allow for full colour range 2.4. Recycled content: 75%. 2.5. Slip resistance - water wet (minimum): PTV of >40. 2.6. Curing time: 6-24 hours. 2.7. Critical fall height when tested to BS EN 1177: 3.0 m 3. Submit 3.1. Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188. 3.2. Critical fall height: Evidence of testing to BS EN 1177.				
F	>300mm	102	m2		

					€	c
	Fencing					
	Secure & safe designated enclosure to Play Areas, to be 'Paladin Classic' open mesh steel panel fencing and inclusive of all associated fixings, posts @ 3m c/c with concrete foundations to comply with the design loading requirements specified by Manufacturers technical specifications, excavation, disposal of excavated material off site, concrete, reinforcement etc. complete. All as per Architects specifcation and in accordance with Manufacturers specification and instructions					
	Fence					
	Supply and fit Paladin Fence complete					
A	1800mm high	35	m			
	Extra Over for					
B	Matching Single Access Gates, including steel posts, civils works, etc.	2	No			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

To Collection €

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COLLECTION					
Page No. DVR SDW/8/1					
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(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - DVR **Carried to Summary**					

					€	c
	(80) LANDSCAPING - DVR					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 103, 104, 105, 120, 903-916, Architects Specification, Engineers Drawings C-0401, 0440, 0500, 0501, 0550 & Specification		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
F	Meeting and adhering to all relevant statutory Health & Safety reqruiements, including provision of documentation & administration to comply with Health & Safety (Construction) Act 2001	1	Item			
G	Existing trees to be retained and protected in accordance with BS5873.	1	Item			
	Landscaping					
	Topsoil					
H	Take suitable excavated topsoil stored on site; spread and levelled; 450mm thick throughout	161	m3			
	Approved imported topsoil in accordance with Architects Specification Q28 and deposited in :					
J	450mm thick layer	1,434	m2			
K	Infill to planters	3	m3			
	Filter Medium Bioretention Soil					
	To comply with the recommendations of CIRIA REPORT C753 and as outlined on Enginieers Drawing C-050 Detail 01 and 02					
L	400mm thick layer	1,019	m2			

To Collection €

					€	c
A	Permeable geotextile membrane vertically and horizontally in forming Bio Retention Ponding Areas	1,319	m2			
	Tree Pits					
	Excavation					
	Tree Pit Bioretention Areas					
B	depth < or = 2.00m	327	m3			
	Disposal					
	Water					
C	Surface	1	Item			
D	Ground	1	Item			
	Excavated material					
E	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	327	m3			
	<u>Suds related drainage, filter material, geotextile membrane etc. as per Engineers Drawing C-0501 detail 8</u>					
F	4-40mm stone drainage layer to IS 1324	79	m3			
G	0.5-1mm sand filter layer; 200mm deep	196	m2			
H	Reed raining sandy soil filter material with permeability to be minimum 13mm per Hr to BS3882	196	m3			
J	Circa 3.0m long perforated pipe wrapped in non-woven permeable geotextile	11	No			
	<u>Spray with Weedkiller</u>					
K	Spray all planting and grass areas with approved herbicide prior to planting and all as per Landscape Architects Specification	1,630	m2			
	<u>Cultivate</u>					
	Cultivate topsoil as per Landscape Architect's specification. Note the layer of soil should be raked or harrowed to remove stones and even out all planting areas					
L	Planting areas	1,630	m2			

To Collection €

					€	c
	Mulch					
A	Supply and spread mulch per Architects Specification; 75mm deep	392	m2			
	Planting. Areas per Architects Drawing 105; all in accordance with Architects Specification Q31					
	Plants					
	Planting rates to include for all associated excavation, backfilling with specified materials, preparation and application methods all as outlined in Landscape Architects Specification					
B	Areas 'A' Wildflower Seed mix: per Architects Drawing 105. 50% wildflower mix 50% general amenity grass seed mix. Wildflower seed mix: Trifolium pratense (red clover) Trifolium repens (white clover) Valeriana officinalis Anemone nemorosa Caltha palustris Digitalis purpurea Cardamine pratensis Leucanthemum vulgare Hypericum elodes Primula veris Primula vulgaris Succisa pratensis	903	m2			
C	Areas 'B' Planting - Low shrub planting decorative: per Architects Drawing 105. Species: Achillea milefolium Allium Holandicum 'Purple Sensation' Aquilega Vulgaris Asplenium Scolopendrium Bellis perennis Betonica Officinalis 'Hummelo' Carex Flacca Crocosmia Masoniorum Deschampsia Cespitosa Dryopteris Filix-mas Geranium Pratense Helicotrichon Sempervirens Hermerocallis 'Lemon Bells' Kniphofia 'Tawny King' Lavendula angustifolia 'Hidcote' Luecanthemum Vulgare Muscari Americanum Narcissuss Poeticus Origanum Vulgare Plomis Russeliana Primula Veris Primula Vulgaris Rudbeckia Fulgida 'Goldstrum' Sanguisorba Officanalis Veronicastrum Virgimicrum 'Album' Veronicastrum Virginicum 'Erica' plants approc 30cm height, 30cm spacing	514	m2			
	Hedges					
D	Planting - Shrubs to site boundary 1.5m high Species: Rosa Canina Illex Aquiform	57	m			

					€	c
	Trees					
	Excavate and dispose of surplus subsoil off site, include for backfilling with topsoil to 75mm deeper than root system and wide enough to accomodate roots when fully spread, supply and plant semi mature trees each having double stake and crossbar, protect as required, all as per Architects Specification					
A	'F' Clear Stemmed semi-mature trees Species: Alder Downey Birch Bird Cherry Sessile Oak	15	No			
B	'G' Multi Stemmed Semi Mature Trees Species: Spindle Goat Willow Hawthorn Sloe	19	No			
	Tree pit root barriers					
C	Greenleaf ReBoot 2000 or equivalent, all per Architects Specfication Q31/510	34	No			
	Tree pit irrigation and ventilation accessories					
D	Mona plant irrigation system ring 77 or equivalent, all per Architects Specification Q31/512	34	No			
	Tree Pit Drainage					
E	1. Depth of excavation: Increase from specified size to allow for aggregate layer, with base slightly falling to outlet 2. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm 2.1. Depth: 200 mm 3. Geotextile filter: Contractor's choice, submit proposals 3.1. Position: Lay over aggregate before installing tree or backfill 4. Completed pits: Test for free drainage before planting	34	No			
	Underground Guying					
F	1. Manufacturer: Platipus Anchors Limited 1.1. Product reference: Platypus RF1P for Multistem Trees 2. Anchoring system: Three no. drive-in anchors 3. Installation: Ensure that tree is positioned correctly and vertically, prior to tightening of guy linetensioners	34	No			
	Tree Ties					
G	Tree ties in accordance with Architects Specification Q31/530	34	No			
	Staking - Double Staking					
H	Double staking in accordance with Architects Specification Q31/550	34	No			

To Collection €

					€	c
	Tree Protection					
A	1. Type: Spiral 2. Material: Tubex Spiral Guards, PVC 600mm high x 38mm diameter 3. Size: 0.6m high x 150mm diameter 4. Colour: Brown 5. Support: Single timber stake (where no support for small trees) 6. Additional requirements: Ensure that protection methods do not impede natural movement of trees or restrict growth	38	No			
	Fencings/Edgings					
	Allow for timber edgings in dividing Allotments					
B	Timber Edgings; Softwood LARCH board- Size: 225 mm x 15 mm; Fixing: Nailed to 50 mm x 50 mm x 600 mm long softwood pegs driven into the ground at 1200 mm centres; Installation height: 30 mm below grass surface; Curved boards: Closely spaced vertical grooves cut in the back to achieve smooth flowing lines; Preservative treatment: As section Z12 and British Wood Preserving and Damp proofing Association Commodity Specification C4.	76	m			
	MAINTENANCE					
	1. Duration: Carry out the operations in the following clauses from completion of planting until 24 months after Substantial Completion. 2. Frequency of maintenance visits: Monthly during growing season. More frequent, as required eg for watering					
	Failures of planting					
C	1. Defects due to materials or workmanship not in accordance with the contract: Plants/ trees/shrubs that have failed to thrive 1.1. Exclusions: Theft or malicious damage after completion. 1.2. Rectification: Replace with equivalent plants/ trees/ shrubs. 2. Replacements: To match size of adjacent or nearby plants of the same species or to match the original specification: whichever is the greater 3. Timing of making good: As soon as possible and at the suitable time of year. All in accordance with Architects Specification Q31/720	1	Item			
	Cleanliness					
D	1. Soil and arisings: Remove from hard surfaces and grassed areas 2. General: Leave the works in a clean, tidy condition at completion and after any maintenance operations. All in accordance with Architects Specification Q31/740	1	Item			

To Collection €

				€	c
	Planting maintenance generally				
A	1. Weed control: Maintain weed-free area around each tree and shrub 1.1. Diameter (minimum): The larger of 1m or the surface of original planting pit 1.2. Keep planting beds clear of weeds: By maintaining full thickness of mulch 2. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch 3. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools 4. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs 5. Trees: Spray crown when in leaf during warm weather. 5.1. Timing: After dusk. 6. Tree accessories: Check condition of stakes, ties, guys, guards, and irrigation and ventilation systems 6.1. Broken or missing items: Replace. 6.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree. 6.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree. 6.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion. 6.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage. 6.6. Frequency of checks: Every month 7. Watering: As required for healthy establishment, depending on weather conditions. All in accordance with Architects Specification Q31/750	1	Item		
	Planting maintenance - pruning				
B	1. General: Prune to promote healthy growth and natural shape 1.1. Dead, dying, diseased wood and suckers: Remove. 1.2. Timing: As appropriate to the species 1.3. Trees: Favour a single central leading shoot 2. Arisings: Remove. All in accordance with Architects Specification Q31/760	1	Item		
	Woodland planting maintenance				
C	1. Watering: Only as necessary to prevent plants wilting 2. Loose plants: Re-firm surrounding soil, without compacting 3. Weed control: Cut down and remove weeds prior to setting seed in a 1 m-diameter area around each tree 4. Vegetation except trees and coppice shoots to be retained: Cut within the plantation area 4.1. Height (maximum): 50 mm 4.2. Arisings: Leave between rows. 5. Mechanical, chemical or mulching methods of vegetation control: Submit proposals. 6. Ditches and drains: Keep clear 7. Watering: As required to maintain healthy planting. All in accordance with Architects Specification Q31/770	1	Item		

				€	c
	Maintenance instructions				
A	1. General: Before end of the maintenance period, submit printed instructions recommending procedures to be established by the employer for the maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the rectification period.	1	Item		
	790 Final mulching				
B	1. Timing: At end of the maintenance period 2. Watering: Ensure that soil is thoroughly moistened prior to re-mulching, applying water where necessary 3. Planting beds: Re-mulch 4. Depth (minimum): 75 mm 5. Trees: Re-mulch 6. Depth (minimum): 75 mm	268	m2		
	Testing, Surveys & Samples				
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements				
C	Testing		Item		
D	Surveys		Item		
E	Samples		Item		
F	Warranties		Item		
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements				
G	Testing		Item		
H	Surveys		Item		
J	Samples		Item		
K	Warranties		Item		

To Collection €

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COLLECTION					
Page No. DVR SDW/9/1					
Page No. DVR SDW/9/2					
Page No. DVR SDW/9/3					
Page No. DVR SDW/9/4					
Page No. DVR SDW/9/5					
Page No. DVR SDW/9/6					
Page No. DVR SDW/9/7					
(80) LANDSCAPING - DVR **Carried to Summary**					

				€	c
SUMMARY	**Page No.**				
(10) PREPARED SITE - DVR	DVR SDW/1/10				
(20) SITE STRUCTURES - DVR	DVR SDW/2/23				
(30) SITE ENCLOSURES - DVR	DVR SDW/3/33				
(40) ROADS, PATHS & PAVINGS - DVR	DVR SDW/4/20				
(50) SITE SERVICES (PIPED AND DUCTED) - DVR	DVR SDW/5/29				
(60) SITE SERVICES (MAINLY ELECTRICAL) - DVR	DVR SDW/6/29				
(70) SITE FITTINGS - DVR	DVR SDW/7/5				
(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - DVR	DVR SDW/8/4				
(80) LANDSCAPING - DVR	DVR SDW/9/8				
TOTAL AMOUNT CARRIED TO MAIN SUMMARY					
DVR SDW/1/1 - DVR SDW/9/8 .					

SITE DEVELOPMENT WORKS

SOCIAL HOUSING (WEST BLOCK)

					€	c
	(10) PREPARED SITE - SOCIAL HOUSING (WEST BLOCK)					
	INFORMATION					
A	This element of the work has been measured from Architects Drawing No 103 & 105 together with Engineers Drawings No's DR-C-0100 and Geodata Drawing20485-100		Note			
B	The Architects and Engineers Drawings and Specifications are all complementary to each other and should be read in conjunction with one another.		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another.		Note			
D	For detailed description of workmanship and materials refer to Specifications.		Note			
E	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata.		Item			
F	Rock is defined as any materials met with in excavation which is of such size or position that it can only be removed by means of wedges, special plant or explosives.		Note			
G	The Contractor is advised that all works within the Exclusion Zones around retained existing Trees on site must be done by hand. No mechanical digging etc. is permitted within these zones. Contractor is to include here for any additional costs carring out any of the works listed below within the Exclusion Zones. Existing retained trees are indicated on Architect's Drawings 103 & 105		Item			
	Vibration Monitoring					
H	Contractors are to allow for all vibration monitoring of adjoining properties and adjoining site boundary walls during demolition and piling works and are to allow here or elsewhere within their tender all all costs associated wiht same all in strict accordance with Engineers Specification		Item			
	Excavation and Earthwork: Excavation					
	Starting Levels					
J	The starting level for excavation measurement is the existing ground level.		Note			
	Reduce levels					
K	Depth < or = 2.00m	291	m3			
				To Collection €		

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	Extra on excavation items for:					
A	Excavating around existing services, parallel / next / alongside excavations	10	m			
B	Excavating around existing services, crossing excavations; Foul	2	No			
C	Excavating around existing services, crossing excavations; Surface	2	No			
	Disposal					
	Water					
D	Surface Water		Item			
E	Ground water		Item			
	Excavated material; Unsuitable					
F	Off site to a tip to be provided by the Contractor	291	m3			
	Imported Filling;					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
	To make up levels under buildings					
G	Granular Fill in accordance with SR21 Annex E. 2. >250mm	453	m3			
	Imported material; selected granular fill to Class 6C of table 6/1 of the TII specification for roadworks; compacting in 225mm thick layers					
	To make up levels under roads / paths					
H	Average thickness > 0.25m	210	m3			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
J	Testing		Item			
K	Surveys		Item			
				To Collection €		

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A	Samples		Item			
B	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			

To Collection €

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COLLECTION					
Page No. West SDW/1/1					
Page No. West SDW/1/2					
Page No. West SDW/1/3					
(10) PREPARED SITE - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

					€	c
	(20) SITE STRUCTURES - SOCIAL HOUSING (WEST BLOCK)					
A	This element of the work has been measured from Structural Engineers Drawing DR-S-4030 together with Architects Drawing 908		note			
B	The Contractor is advised that this Element and the Works Requirements are all complementary to each other and should be read in conjunction with one another		note			
C	For detailed description of workmanship and materials the contractor is referred to the works requirement document entitled "Concrete Specification" prepared by the Structural Engineer.		note			
D	For details of ground conditions refer to the Ground Investigation Report and Bore Hole Data included with the tender documentation		note			
E	For details of underground services refer to the Works Requirements		note			
	REFUSE STORE					
	SUBSTRUCTURE					
F	Allow for probing the sub-strata prior to excavation to ascertain the exact nature of the sub-strata		Item			
G	Excavation through imported hardcore fill is to be carefully set aside and stored for re-use or spread and levelled on site where directed by the Engineer		note			
	EXCAVATION AND EARTHWORK: Excavation					
	Waste Acceptance Criteria Testing					
	The Contractor is to pay the cost of all Waste Acceptance Criteria Testng; all in accordance with the Works Requirements and the Structural Engineers particular specification for earthworks					
H	generally		item			
	Excavation					
	Excavation					
	Foundation Trenches					
J	depth < or = 2.00m	37	m3			

To Collection €

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	Additional excavation below underside of strip foundations to good bearing strata					
A	Depth < 2.00m deep	56	m3			
	Soft Spots					
	Excavate in soft spots where directed; backfill with in-situ concrete grade C16/20 to IS EN 206-1; disposal of excavated material off site; classification of soft spots shall be ascertained by the Engineer and shall not occur due to abuse of formation level					
B	depth < or = 2.00m	5	m3			
	Extra over excavating trenches irrespective of depth					
C	Excavating around existing services, parallel / next / alongside excavations	5	m			
D	Excavating around existing services, crossing excavations	2	No			
	Disposal					
	Water					
E	Surface		Item			
F	Ground		Item			
	Excavated material					
G	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	93	m3			
	Working Space Backfill with imported Annex E					
H	Foundation depth < 2.00m	61	m2			

To Collection €

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	Filling;					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
	To make up levels					
A	Granular Fill in accordance with SR21 Annex E. 2. >250mm	10	m3			
B	"Annex E of SR21" Backfill to foundation; >250mm	16	m3			
	Surface Treatments					
C	60mm thick sand/non-angular granular material blinding laid on barrier	32	m2			
	CONCRETE WORK: In-Situ Concrete					
	Concrete Cube Tests					
	Form and test concrete cubes in accordance with the Works Requirements and Structural Engineers specification					
D	generally		Item			
	Blinding					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Blinding					
E	Trench fill under strip foundations to good bearing strata	56	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
F	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	12	m3			

To Collection €

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A	Beds (Floor Slab); >150mm thick; reinforced; laid on DPM on blinded hardcore	8	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1 and BS 8500-2.; compressive strength class C30/37; maximum aggregate size 20mm; exposure classes XC1; poured into cavity between blockwork leaves and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification 132 for concrete and Architects specification F30/110					
B	Cavity infill; >150mm	3	m3			
	CONCRETE WORK: Sundries					
	Isolation Joints (IJ)					
	Perimeter of concrete slab isolation joint; underslab insulation; type: agrement certified for use under ground bearing slabs; Thickness 20 mm; Compressive strength (minimum) 140 kPa at 10% compression; Thermal conductivity (maximum) 0.022 W/(mK);30mm thickal to Architects specification clause E20/215; form 20 x 12mm surface groove in in-situ concrete floor slab, to be filled with two part polysulphide seal; forming joint between floor and wall all in accordance with the Works Requirements and Architects specification clause E20/215					
C	Verticle; Depth 150-300mm	33	m			
	Surface finishes					
	Powerfloating					
D	To falls & Cross falls	32	m2			
	CONCRETE WORK: Reinforcement					
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
E	Horizontal; Strip Foundations	37	m2			

					€	c
	Reference A393; 3.95 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
A	Horizontal; Suspended Floor Slab	32	m2			
	CONCRETE WORK: Formwork					
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification					
	Sides of Foundations					
B	Height 300mm - 500mm	62	m			
	Edges of beds					
	Height < or = 250mm					
C	generally	4	m			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Rising Walls					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
D	100mm thick	6	m2			
E	215mm thick	9	m2			
F	440mm thick	12	m2			
	Labours					
	On blockwork					
G	generally		item			

To Collection €

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	Forming cavities					
	Full fill cavity insulation to external cavity wall; 100mm wide cavity; WALL TIES: Double triangle type or other equal or equivalent stainless steel wall ties complying with IS EN 845-1:2013 at 450mm centres vertically and 450mm centres horizontally; include for keeping cavity clear of mortar droppings, all in accordance with the Works Requirements and in particular Structural Engineers particluar specification for blockwork and Architects specification clause F30/150A					
	Between new walls					
A	100mm wide	6	m2			
	Radon Barrier					
	Waterproofing/ damp-proofing/ gas-retardant membrane Under slab. To IS EN 15814 + Agrement-certified. Number of layers: As per manufacturers guidelines. Thickness/ gauge: As per manufacturers guidelines. Bonding: Horizontal surfaces loose-laid; vertical surfaces spot-bonded with adhesive. Surfaces to be joined: Clean and dry beyond the full width of the joint. Laps (minimum): Side and end laps, 300 mm with double row tapes - unless otherwise specificed by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Properties: Tensile strength: >600N/50mm. Tear Resistance: >425N. Elongation: <19%. Moisture Vapour Transmission: <0.2 g/m2/day. Water Vapour Resistance: >1024MNsg-1. Radon Gas Transmittance: 17x10-9 m/s-1. Radon Gas Permeability: 7 x 10-12 m2/s. All in accordance with the Works Requirements and Architects specification clause J40/297/A; Seal at joints to architects specification with 150mm laps with adhesive recommended by manufacturer sealed at joints with in accordance with the manufacturer's written instructions					
	Radon Barrier					
	Width > 300mm					
B	Horizontal	42	m2			
	Width < 300mm					
C	Vertical (sealed to face of existing building per Architect's detail 02/300	27	m			

To Collection €

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	DPC / Cavity Trays					
	Gas resistant DPCs / Cavity tray; Product to have Agrement Certification, and to meet the following performance characteristics; Material Type: Virgin blend LDPE; Thickness: 500 microns; Radon Permeability: 7.9 x 10-12 m2/ s; Tensile strength >350N/50mm; Weight: 460 g/m2; Tear Resistance >200N; MVTR : <0.3 g/m2/day; all in accordance with the Works Requirements and Architects specification clause J40/140A; Seal at joints to architects specification F30 /360A with 150mm laps fully bonded with adhesive recommended by dpc manufacturer and sealed at joints with in accordance with the manufacturer's written instructions					
A	Width < or = 225mm; horizontal	31	m			
B	Width >225mm; To base of blockwork cavity and dressed up, over and down 225mm high blockwork as per architects drawing 337/E/001 ref Radon DPC (1) (overall girth approx.1025mm); fully bonded and sealed to horizontal radon barrier all as before described	13	m2			
C	Extra over for sealed tape in fixing to blockwork	27	m			
	"Monarflex radon resisting membrane RMB 400" top hat units with clips; fully bonded and sealed at joints in accordance with the manufacturer's printed instructions					
	Collars around pipes, standards and the like					
	Diameter					
D	< or = 110mm	2	No			
	Non perforated gas collection pipes; Manufacturer:Contractor to submit proposals; Product to have Agrement Certification, for proposed purpose.; Material: High-density polyethylene (HDPE), non perforated with ring seals joints to BS EN 681-1; Outside diameter size: 110 mm. all in accordance with the Works Requirements and Architects specification clause J21/110 & 340 and installed as per J21/660					
	Pipes					
	110mm diameter					
E	In trenches (Provisional)	10	m			
	Extra over pipes on which they occur for					
F	Bends; 87.5 degrees	2	nr			

To Collection €

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A	Radon duct capping detail; at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm	2	nr			
	Plastic Depressurisation sumps; Manufacturer: Contractor to submit proposals; Product to have Agrement Certification, and must fulfill the following performance requirements: Material: Medium Density Polyethylene.; Diameter of the open base: 283.5 mm; Overall Depth: 149 mm; Short Term Creep Test: Mean deflection at 480N is 6.96mm; Compression Test Result: Mean deflection at 10,260N = 27.33mm; Ground level Termination: System capping detail, at surface paving level; Material: Unplasticized polyvinyl chloride; Cover Assembly Dimensions: 146mm x 166mm; all in accordance with the Works Requirements and Architects specification clause J21/110 & 370A and installed as per J21/635A					
	Chambers					
B	Sump & Sump Cap-Link	1	nr			
	Drainage Channels					
	Drainage channel system with 100mm wide grating; Product to conform to the following performance criteria: CE marked and fully certified to Load Class B125 per BS EN 1433:2002; Channel drain system with stainless steel edge rail.; Fall Constant invert; Overall Depth: 100mm; Grating: Ductile iron with high heel protection; Loading grade to BS EN 124: Load class B125; Other requirements: Including all accessories as required per manufacturer's best practice installation - sumps, end caps etc. bedded in haunched concrete overal size 170 x 150mm high including all nessessary formork; all in accordance with the manufacturers instructions and Architects specification and architects drawing					
	Including all drain unions, ends, outlets etc.					
C	overall length 2000mm	1	nr			

					€	c
	EXTERNAL & INTERNAL WALLS					
	Precast Concrete					
	Precast concrete units; Contractors choice to submit for approval; Components manufacturer's 'proprietary' concrete; to B.S. 8500-2; building into existing masonary walls, ainclude for all necessary reinstatement, bedding in gauged mortar (1:1:6); as per Engineers specification and Architects detail 02 & 05 in drawings 314 and specification					
	Cills smooth finish; 180mm deep x 80mm high, lengths as per window / door opes with each side to be stepped into reveal; Include for wrapping with all necessary polyethene DPC damp proof courses and / or cavity trays to BS6515. Include for all neccesary insulation, concrete backing etc complete, all as per Architects drawings & specification					
A	Door Threhold 1,300mm wide	1	No			
B	Door Threhold 2,050mm wide	1	No			
	Prestressed Concrete Lintels bedded in approved sand cement mortar; all in accordance with Architects Specification & Engineers Specification					
	Include for all temporary propping until blockwork over is mature in accordance with the manufacturers instructions					
C	(L4) 215 x 215mm	5	m			
	Prestressed Concrete Parapet Capping bedded in approved sand cement mortar; include for DPC etc complete, all in accordance with Architects Specification & Engineers Specification. Size					
D	480mm wide x max 140mm high, all per Architect's drawing 909	27	m			
E	Mitres / Corners	4	No			

To Collection €

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	PREFABRICATED STEEL LINTELS:				
	Prefabricated Steel Lintels, to IS EN 845-2. Galvanised Steel. Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. - To be installed in accordance with manufacturers recommendations. Deflection limits, Combined: L/200. Live only: L/360. Refer to Structural GAs for lintel sizes. S/K and HD/K refer to Keystone lintels similar and approved can be submitted. Refer to architectural drawings for U-value requirements. Apex lintel: STXAP/K-150 Stepped apex lintel 35degree pitch, 350mm wall, 450mm step, no wire. Heavy Duty Steel Lintel with Steel plate bottom. All per Engineer's Drawings & Specification and Architect's Drawing and Spectfication				
	Lintels to suit cavity wall construction (consisting of 100mm outer leaf, 100mm cavity and 215mm inner leaf)				
A	Proprietary masonary support / relieving angle suitable for 100mm cavity (4location)	5	m		
	BLOCKWORK & BRICKWORK				
	Brickwork				
	Clay facing brickwork Type A - 'White Brick'. Handmade, fired clay, facing brick with sanded finish. Vandersanden or equivalent, Lima 124A0 or equivalent bricks: to IS EN 771-1. Bricks to be cut on site as required to site brickwork setting out on architectural drawings. Mortar: Lime mortar as section Z21 to IS EN 998-2. Mix: Moderately hydraulic HLM3.5. Bond: Half lap stretcher, Joints Flush. All per Architect's Specification F10-110A				
	Walls				
B	100mm thick	86	m2		
	Labour on Brickwork				
C	Generally		Item		
	Blockwork				
	Concrete blocks; to be category 1 group 1 and to EN 772-1; compressive strength 7.5 N/Sqmm; 440 x 215 x 100mm nominal size; in mortar (1:1:6) min. strength M4; laid stretcher bond; all as per Architects and Engineers Specification				
	Inner Leaf of External Walls, Fair faced pointed finish to inner face				
D	225mm thick	86	m2		

					€	c
	Internal Walls Fair faced pointed finish to both faces					
A	225mm thick	12	m2			
	Bedjoint Reinforcement					
	Provide 3 courses of GBF 35 W60 SC brickforce (or equivalent) reinforcing to horizontal bed joints directly above ope. Extend minimum 750 beyond ope size, all per Engineer's Specification, to;					
B	100mm brickwork	7	m			
	Weep Holes					
	Supply and fit Perpend joint plastics weep holes; Beak weep with reduced front section (beak shaped), transparent, all per Architect's specification and drawings					
C	Fitted through outer leaf immediately above base of cavity, at cavity trays, stepped dpcs, and external openings. 75 mm above top of concrete fill at base of cavity. Spacing (maximum): At not greater than 900 mm centres and not less than two over each opening.	27	m			
	Forming cavities; All Caviity Walls to be tied using suitable S/S wall ties. Ties shall be bedded into the bed joint of brick leaf by not less than 50mm, and shall be spaced in accordance with BS EN 845: Part 1, BS EN 1996 and BS 8000: Part 3. Additional ties shall be provided to sides of openings in accordance with BS EN 1996, as per Engineers & Architect's drawings and Specifications					
	Forming cavities; between new Blockwork Inner Leaf and Brickwork Outer leaf					
D	100mm wide	86	m2			
	Cavity Closer					
	Propritary Cavity Closer to head and reveals of door ope, complete all in accordance with Manufacturer's Recommendations and all per Architect's Drawings & Specification.					
E	To 100mm wide Cavity, with blockwork inner leaf, brick outer leaf	13	m			

					€	c
	Copolymer thermoplastic DPC damp proof courses and / or cavity trays, all per Architects specifications F30					
	Girth > 300mm					
A	Horizontal	18	m2			
	Girth < 300mm					
B	Vertical	10	m			
	PAINTING AND DECORATING: Painting					
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60					
	To walls; Pointed Blockwork					
C	> 300mm wide	80	m2			
D	< 300mm wide	13	m			
	Wire Mesh					
	Supply and fix wire mesh frame for climbing plants. approx 2.25m high. fixed to face of brick wall, all per Architect's drawing 909 and Specification Q31/216					
E	Suitable stainless steel wire trellis in pattern indicated on drawings (Architectural 908 and 909)	53	m2			
	ROOF					
	Reinforced concrete grade C32/40; filling into formwork; tamped around reinforcement all as per Engineers concrete specification:					
	Roof Slab					
F	225mm thick	9	m3			
	Non structural concrete screed laid on concrete roof deck. Include for praparing existing deck to recieve new screed; grade C32/40; laid to falls and crossfalls; as per the Engineers Drawings and Specification and Architect's Specification M10/670					
G	floating screed; average depth 75mm thick with a minimum depth of 50mm and maximum of 100mm as per Architects Drawings	3	m3			

To Collection €

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	Reinforcement					
	Bar reinforcement; all in compliance with Engineers Concrete Specification Section E30; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers drawings and Specification					
	Mesh					
A	A393 Mesh	76	m2			
	Formwork					
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification					
	Soffit of Roof Slab					
B	> 300mm wide	33	m2			
	Sides of Roof Slab					
C	< 300 mm wide	26	m			
	Surface Finishes					
D	Float concrete finish to Roof Slab	38	m2			
E	Float concrete finish to screed to falls	33	m2			
				To Collection €		

					€	c
	Built-up reinforced bitumen membrane cold deck roof covering Waterproof covering; Underlayer: Bauder G4E, OR equivalent, 4 mm thick, 200g/m2 glass-fibre reinforced, elastomeric torch-applied bitumen underlayer. Attachment: As clauses 710, 740. Top layer/ capsheet: Bauder K5K or equivalent 5 mm thick, 250g/m2 polyester reinforced, elastomeric bitumen torch applied capping sheet. Colour: Charcoal grey finish. Attachment: As clauses 710, 750. Flashings and detail work: Additional layer of SBS-modified bitumen membrane, mineral-surfaced. Fire Classification: Roof buildup is required to achieve BroofT4 - provide test certificates to match specific buildup. Include for all necessary Surface protection. Include also for all necessary accessories: Angle fillets, as clause 335, Perimeter trims, as clause 345, Pipe collars, as clause 480. Etc. Overall roof build up to achieve BROOF(t4), in accordance with BS EN 13501-5. Allow for to achieve falls as per architectural drawings. All in accordance with Architects Drawings and Specification Section J41/130 & 430 Laid to falls and cross falls on Concrete deck (elsewhere measured)					
A	> 300mm wide	33	m2			
B	Vertical upstands to parapet compliance with Part L of the current Building Regulations. Include for support brackets, roof fininish to extend in under parapet coping (elsewhere measured) etc. complete, all as per Architect;s Drawing 909	24	m			
C	Form Gutter 350mm wide	8	m			
D	Form watertight Rainwater outlets through reinforced concrete deck. Include for all necessary flashings , expanding foam, sealing, bends with roding eye, etc complete all per Architect's Drawing	1	no.			
E	Form watertight Rainwater outlets through 440mm wide cavity parapet wall with brick outer leaf. Include for all necessary flashings , expanding foam, sealing, bends with roding eye, etc complete all per Architect's Drawing	1	no.			
	Air and Vapour control layer to Architect's spec. J41/395					
F	> 300mm wide	33	m2			

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	Stone Ballast					
	Supply and fit Pebble Stone ballast. Rounded river washed pebbles. Size: 5-30mm. Depth:: minimum 50mm. Colour: white/silver grey. All per Architect's Drawing 909 and SpecificationJ41/460					
A	70mm deep	33	m2			
	Drainage					
	PVC-U pipework internal pipework and fittings, to ISEN 1329-1 or BS 4514, Kitemark-certified. Nominal size: DN110. Brackets: PVC-U clips, black. Fixings: Stainless steel screws. including all required fittings, bends, branches and accessories; brought down within building; all as per Architects drawings and Specification					
B	Downpipe 110mm Diameter	3	m			
C	Extra; bends	2	no			
D	Flat roof outlet to be Anti Vortex cast aluminium c/w metal clamping ring and leaf grate with flange recessed in insulation, inclusive of forming and sealing ope in flat roof inclusive of all required fixings and sealing; all as per Architect's drawings and Specification section R10	1	no			
	Builders Work					
	The Contractor is to allow for all Builders Work Requirements in respect of the rainwater downpipes inclusive of all cutting, forming holes and the like; all as per Architect's Drawings and Specification.					
E	builders work		Item			
	Electronic Roof Integrity Test to all Roof Areas					
F	Electronic roof integrity test; all as per Architect's Drawings and Specification Section J41/920		Item			

To Collection €

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	Metal Doorsets Plant Room					
	Highly insulated aluminium doorset for plant rooms. Outward swinging double doors. Fire resistance: EI60Sa in accordance with IS EN 13501-2. Fire performance. Fire resistance: EI60. Smoke leakage: Sa. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better. Acoustic performance: Rw (C;Ctr) = 33 (-2;-5) dB - 36 (0;-2) dB.. Thermal performance (U-value maximum): 1.6 W/m2K. Security (Intruder resistance): RC2/ WK2 to European standard EN(V)1627-EN(V)1630. Watertightness: Up to 600 Pa (class 3). Air permeability: Up to 300 Pa (class 7A). Resistance to wind load: Up to 800 Pa (class C2). Door leaf. Material: Anodized Aluminium - to match finish as clause L10/410. Type: Flush panel. Frame. Material: Anodized Aluminium - to match finish as clause L10/410. Threshold: Flat aluminium with brush seal. Ironmongery: Handles: Shield handles, natural anodized. Access control: Mortice lock with key and thumb-turn internally. Heavy duty hinges. Perimeter seals: Fire and smoke seal + EPDM weatherseal. Other requirements: Flush threshold drain with lapping DPC/EPDM on exterior side connected to surface water drainage network. Fixing: As per manufacturer's guidelines. Warranty: Ten year. Verification. Submittals etc. complete:					
	Include for Airtight Seals/ Tape and foam as per Specification and as shown on drawings. Include also for all Mastic Pointing, EPDM, mineral wool packer, to perimeter of frames. Include for all necessary fixings to existing masonary wall. Include for all associated ironmongery and opening sections. All as per Architects plans, elevations and Door schedules [dwg 606 and as per Architects specification clauses L20A specifically L20A/485; and all in accordance with the manufacturers instructions.					
	Composite External Doorset					
A	Type DK- Single Doorset size overall 1300mm wide x 2250mm high	1	nr			
B	Type DL- Double Doorset size overall 2030mm wide x 2250mm high	1	nr			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			

To Collection €

					€	c
A	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			

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COLLECTION					
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(20) SITE STRUCTURES - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

					€	c
	(30) SITE ENCLOSURES - SOCIAL HOUSING (WEST BLOCK)					
A	This element of the work has been measured from Architects Drawing No. and Engineers Drawing No.		Note			
B	The Architects and Engineers drawings and specifications are all complementry to each other and should be read in conjunction with one another.		Note			
C	For detailed description of workmanship and materials see specification.		Note			
D	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same		Note			
	RETAINING WALL - A					
E	Proposed 200mm thick Reinforced Concrete Retaining Wall Type A to be installed sequentially to prevent undermining of existing wall foundations. Wall to be installed in 1m sections in hit & miss manner. wall segments to be constructed with a reinforcement lap projecting from each element to tie into the newly constructed adjacent element. Contractors are deemed to have allowed for same within their rates when pricing this work. All per Engineer's Drawing 4020 and Specification.		Note			
	EXCAVATION AND EARTHWORK: Excavation					
	Excavation					
	Foundation Trench					
F	Average depth; < 2.00m	122	m3			
	Extra on excavation items irrespective of depth for					
	Extra over excavating trenches irrespective of depth					
G	Excavating around existing services, parallel / next / alongside excavations	10	m			
H	Excavating around existing services, crossing excavations; ESB	5	No			
J	Excavating around existing services, crossing excavations; Eircom	5	No			
K	Excavating around existing services, crossing excavations; Watermain	5	No			

To Collection €

				€	c
A	Excavating around existing services, crossing excavations; GAS	5	No		
B	Excavating around existing services, crossing excavations; Foul	5	No		
C	Excavating around existing services, crossing excavations; Surface	5	No		
D	Next to existing Boundary Walls; Include for all necessary temporary props etc.	65	m2		
	Working space excavation; Backfill with imported Annex E; deposited in layers 150mm thickness; compacted by mechanical means				
	Working Space Backfill with imported Annex E				
	Foundations				
E	depth <2.00m	98	m2		
	Disposal				
	Water				
F	Surface		Item		
G	Ground		Item		
	Excavated material				
H	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	122	m3		
	Filling;				
	Imported Material				
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; average thickness				
	Filling				
	To make up levels				
J	"Annex E of SR21" Backfill to foundation; >250mm	84	m3		

To Collection €

				€	c
	CONCRETE WORK: In-Situ Concrete				
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Poured on or against earth or unblinded hardcore				
A	under strip foundations	4	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
B	Strip Foundations; Poured against formwork sides and on leanmix fill; Reinforced	23	m3		
	Walls				
C	Walls; >150mm; Reinforced.	13	m3		
	Surface finishes				
	Steel Trowel finish to top of wall				
D	horizontally <300mm wide	49	m		
	CONCRETE WORK: Reinforcement				
	Bar				
	High yield steel bar reinforcement; hot rolled deformed high yield steel bars to shall comply with BS EN 10080 and BS 4449 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30				
	Straight or bent				
E	< 12mm diameter	3.60	tonne		
F	12 - 25mm diameter	3.60	tonne		

					€	c
	CONCRETE WORK: Formwork					
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification E20 610					
	Sides of Foundations					
A	Height = or < 300mm	98	m			
	Walls, > 2.00m high					
B	> 300mm wide wide	128	m2			
C	< 300mm wide wide	3	m			
	Kickers					
	Walls					
D	generally	49	m			
	Labours					
E	Form 75mm diameter Weep Holes in 300mm Reinforced Concrete Wall @ 2,000mm centres	25	no			
	New to Existing Foundation Connection					
F	400mm long H10 steel dowel bars, having one end set into side of existing reinforced concrete foundation with Hilti Hit-Hy Resin or equivalent; include for forming mortices and leave other ends set projecting fully debonded for new reinforced concrete foundations, complete all per Punch Engineers Drawings DR-S-4020	39	m			
	Land Drain					
	Land Drain to base of walls					
G	Supply and lay 150mm diameter PVC land drain wrapped in and including 1000G geotextile. include also for surrounding in peagravel bed and surround and for connecting to stormwater system. All per Engineers drawings and specifications	59	m			
H	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	1	No.			

				€	c
	Fencing Support for New Hedges				
	Treated timber post and general pattern wire mesh,, to be installed before planting hedge (elsewhere measured). to boundary between gardens, complete all as per Architect's Specification Q31/472				
A	1,200mm high	45	m		
B	Extra over for end posts	10	No		
	NEW BLOCKWORK WALL NEXT TO WEST BOUNDARY				
	Excavation				
	Foundation Trenches				
C	depth < or = 2.00m	10	m3		
	Foundation Pits for attached pad foundations				
D	depth < or = 2.00m	3	m3		
	Extra on excavation items for				
	Extra over excavating trenches irrespective of depth				
E	Excavating around existing services, parallel / next / alongside excavations	3	m		
F	Excavating around existing services, crossing excavations	2	No		
	Disposal				
	Water				
G	Surface		Item		
H	Ground		Item		
	Excavated material				
J	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	13	m3		
	Working Space Backfill with imported Annex E				
K	Foundation depth < 2.00m	27	m2		

				€	c
	Filling;				
	Imported Material				
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness				
	Filling				
A	"Annex E of SR21" Backfill to foundation; >250mm	7	m3		
	CONCRETE WORK: In-Situ Concrete				
	Blinding				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete				
	Blinding				
B	Blinding under foundations	1	m3		
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
C	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	3	m3		
D	Foundations (attached pads); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	1	m3		

To Collection €

					€	c
	CONCRETE WORK: Reinforcement					
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30					
	Fabric					
	Reference A393; 6.16 kg/m2; 400mm laps between all adjoining sheets to Engineers specification					
A	Horizontal; Strip with attached Pad Foundations	12	m2			
	CONCRETE WORK: Formwork					
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification					
	Sides of Foundations					
	Height 300mm - 500mm					
B	Strip / Attached Pads	26	m			
	BRICKWORK AND BLOCKWORK: Blockwork					
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A					
	Rising Walls					
C	215mm thick	7	m2			
D	450mm thick to attached piers	1	m2			
	Walls					
E	215mm thick walls	21	m2			
F	215mm thick walls built off reinforced concrete reintaining wall (elsewhere measured)	103	m2			
G	Extra over ditto built next to exiting masonary boundary wall	82	m2			
H	450mm thick attached piers	3	m2			

				€	c
	Labours				
	On blockwork				
A	Generally		Item		
	CONCRETE WORK: In-Situ Concrete				
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete				
	Wall Capping. Overall size;				
B	overall 350mm wide x 100mm high	3	m3		
	Pier Capping. Overall size;				
C	overall 600mm x 600mm wide x 100mm high	1	m3		
	CONCRETE WORK: Formwork				
	Formwork - Wrot Finish; all in accordance with the Works Requirements and Structural Engineers specification E20 610				
	Sides & Underside of Capping				
D	Girth < 250mm	120	m		
	Surface finishes				
	Steel Trowel finish to top of capping				
E	Raking sides >300mm wide	22	m2		
	Damp Proof Course				
	Damp proof courses approved PVC, 150mm laps				
	Width < 225mm				
F	Vertical	59	m		
	Expansion Joint				
	Typical blockwork movement Joint, include for 10mm thick closed cell polyethene sealed neatly with mastic pointing, all per Engineer's drawing, to;				
G	215mm thick blockwork	35	m		
H	440mm thick blockwork	7	m		

To Collection €

					€	c
	FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishings					
	Plaster; scud in cement and sand (1:3); render in cement, lime and sand (1:1:6) with waterproofer added; finish in cement, lime and sand (1:2:9); dry dash plaster finish; 25mm thick overall					
	To blockwork base; 25mm thick; to walls and piers; generally					
A	> 300mm	166	m2			
B	< 300mm wide	17	m			
	Sundries					
	Stainless steel beads, as per Architects Specification M20					
C	Angle bead	13	m			
D	Proprietary movement joint bead fixed with steel washered masonry nails to concrete blockwork	84	m			
	PAINTING AND DECORATING: Painting					
	Masonry Paint to rendered blockwork in three different colours, all as before and in the chosen colour; all in strict accordance with Architects Specification Clause M60					
	To dry dash plaster base					
	To walls and piers; generally					
E	> 300mm wide	166	m2			
F	< 300mm wide	17	m			
	Capping					
G	> 300mm girth	41	m2			
	PLANTER WALLS (2no Locations per Architect's drawings 916)					
	Excavation					
	Foundation Trenches					
H	depth < or = 2.00m	52	m3			
	Disposal					
	Water					
J	Surface		Item			

To Collection €

					€	c
A	Ground		Item			
	Excavated material					
B	Off site; to a location properly licensed by the Local Authority and / or Environmental Protection Agency	52	m3			
	Filling;					
	Imported Material					
	Filling; sub base; selected graded gravel material per engineers specification, spread, levelled and compacted in 200mm thick layers on ground; in making up levels in separate layers; The contractor should note that all fill below floors shall require certification that it is fit for purpose, average thickness					
	Filling					
C	"Annex E of SR21" within backfill to sides of rising walls	26	m3			
	CONCRETE WORK: In-Situ Concrete					
	Blinding					
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C16/20; maximum aggregate size 20mm; exposure classes XC4; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers particular specification for concrete					
	Blinding					
D	Under strip foundations	3	m3			
	In-situ concrete; designed concrete mix to IS EN 206-1; compressive strength class C32/40; reinforced and vibrated; all in accordance with the Works Requirements and the Structural Engineers specification for concrete					
E	Foundations (Strip); Poured against formwork sides and on earth or unblinded hardcore; Reinforced	16	m3			

				€	c
	CONCRETE WORK: Reinforcement				
	Steel fabric reinforcement to BS 4483; Strength grade: B500A; fixing with tying wire and supporting on metal chairs in strict accordance with the manufacturers instructions but at the contractors discretion; all in accordance with the Engineers specification E30				
	Fabric				
	Reference A193; 400mm laps between all adjoining sheets to Engineers specification				
A	Horizontal; Strip Foundations	51	m2		
	CONCRETE WORK: Formwork				
	Wrot Formwork; all in accordance with the Works Requirements and Structural Engineers specification				
	Sides of Foundations				
B	Height < 300mm	113	m		
	BRICKWORK AND BLOCKWORK: Blockwork				
	Concrete blocks to I.S.20; to I.S. 325 and EN 771-3; compressive strength 13.5N/mm2; 440 x 100 x 215mm nominal size; in mortar 1:1:5 or 6 mixture of Cem 1; strenght class M4 to BS EN 998-2; laid in half lap stretcher bondwith neat flush pointing as the work proceeds; all as per Architects Specification F 10 355 and Engineers Specification 355A				
	Rising Walls				
C	215mm thick walls	38	m2		
	Labours				
	On blockwork				
D	Generally		Item		

To Collection €

					€	c
	Brickwork					
	Clay facing brickwork Type B - 'Red Brick'. Handmade, fired clay, facing brick with with sanded finish. Manufacturer: Clay & Co (Formerly Kingscourt Manor Bricks) or equivalent. Product reference: Warnham Teracotta Brick or equivalent. Bricks: to IS EN 771-1. Colour:: Red base colour with patches of slight colour variation. Texture:: Slight wrinkles in surface distinctive of handmade bricks. Configuration: Soild. Clay Type: Keuper Marl. Mould release process:: Sand appled to clat clot prior to insertion into mould. Machinemoulded handmade process of applying sand to the mould is not acceptable. Special shapes: Closer (132.5x102.5x65mm). Pistol brick. Half bricks (102.5 x 102.5 x 65mm) required for masonry curves. Brick slip suitable for use with brick support systems listed in Section F30. Bricks to be cut on site as required to site brickwork setting out on architectural drawings. Bullnose brick and closers for planter wall as drawing 910. Mortar: Lime mortar as section Z21. Standard: To IS EN 998-2. Mix: Moderately hydraulic HLM3.5. Additional requirements: Submit samples for approval. Reaction to fire class: A in accordance with I.S. EN 13501-1: 2002. Sand sourcing: Use locally sourced granite sand to achieve indigeneous mortar appearance. Bond: Half lap stretcher. Joints: Flush. All per Architect's Specification F10-110B					
	Planter Walls					
A	215mm thick	40	m2			
	Matching Bullnose brick capping. Include for DPC to F30/310 under.					
B	215mm wide	57	m			
	Labour on Brickwork					
C	Generally		Item			
	Land Drain					
	Land Drain to back of Planter per Architect's Drawing 916					
D	Supply and lay 100mm diameter PVC land drain wrapped in and including 1000G geotextile. include also for surrounding in peagravel bed and surround and for connecting to stormwater system. All per Engineers drawings and specifications	33	m			
E	Provide silt trap at end of each land drain run before connection to storm water sewer, all per Engineer's drawings and specification	1	No.			

					€	c
	Tanking					
	Tanking applied to blockwork walls. Specialist designed post-applied waterproof membrane composite sheet for tanking. To be used in conjunction with clause 297/B as required by specialist design proposal.. Manufacturer: GCP Applied Technologies or Equivalent, Bituthene 8000 or equivalent membrane. Third-party certification: NSAI Agrement Certificate. Form: Gas resistant, damp-proof and waterproof membrane. Carrier material: High-density polyethylene (HDPE). Primer: Bituthene Primer S2, or equivalent. Number of layers: As per manufacturers guidelines. Thickness/ gauge: 1.5mm. Weight:: 1.49 kg/m2. Water Vapour Transmission: To EN 1931, 105.000) 30% IE= sD/d.. Watertightness: To EN 1928, at 60 kPa: pass. Static Load Resistance: To EN 12730, .20: pass. Tensile Strength: To EN 12311-2, .180 N/50 mm (longitudinal); .180 N/50 mm (transversal). Reaction to Fire: To EN 13501-1, Class E. Joints Surfaces to be joined: Properly seal all joints with waterstop, joint filler and sealant as required. Bituthene membranes are not intended to function as the primary joint seal. Allow sealants to fully cure. Pre-stril all slab and wall cracks over 1/16 in (1.5mm) wide and all construction and control joints with 9in (230mm) wide sheet membrane strip. Laps (minimum): Side and end laps, 50mm at sides and ends, unless otherwise specificed by manufacturer guidelines and Agrement certificate. Sealing: As per manufacturers guidelines and Agrement certificate. Application temperature: -5C to +20C. All per Architects drawing 916 and Specification J40/297C					
	> 300mm					
A	Inner face of Brick Planter Walls	39	m2			
B	Supply and fit Drainage Board to base of planter, approx. 450mm wide	28	m			
	Extar over for					
C	External Return to Double Nose Capping at Corners	4	No			
D	Queen Closers as indicated on Architect's drawing 910	6	m			
	Testing, Surveys, Samples & Warranties					
	Include for all testing, surveys, samples & warranty requirements as set out in the Architects works requirements					
E	Testing		Item			
F	Surveys		Item			
G	Samples		Item			

To Collection €

					€	c
A	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirements as set out in the Engineers works requirements					
B	Testing		Item			
C	Surveys		Item			
D	Samples		Item			
E	Warranties		Item			

				€	c
COLLECTION					
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Page No. West SDW/3/14					
(30) SITE ENCLOSURES - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

					€	c
(40) ROADS, PATHS & PAVINGS - SOCIAL HOUSING (WEST BLOCK)						
	INFORMATION					
A	This element of the work has been measured from the Architects Drawing No's 104, 105, 125 and Engineer's Drawings Nos. C-001, 0401, 0440, 0460, 0550,		Note			
B	The Engineers and Architects drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjunction with one another		Note			
D	For detailed description of workmanship and materials see specification		Note			
E	The tenderers should examine the Architects and Engineers drawings and specifications and satisfy themselves as to the nature and extent of the works outlined below and should include for all costs in connection with same.		Note			
	Circulation Road & Parking Areas					
	Geotextile Membrane					
F	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	143	m2			
	Filling					
	Filling; imported granular material 6F2 to table 6/1 of the NRA specification for roadworks; spread and levelled in road base; average thickness					
G	> 250mm thick	65	m3			
	Filling; imported granular material type B sub-base to clause 808; spread and levelled in road base; compacted in layers in accordance with clause 802 of the TII specification for roadworks; average thickness					
H	< 250mm thick	22	m3			
	Asphalt Base layer					
	AC 32 Dense base 40/60; laid to falls and crossfalls					
J	100mm thick	143	m2			

					€	c
	Surface buildup					
A	60mm AC 20 dense bin 40/60	143	m2			
B	40mm SMA 14 surf PMB 65/105-70 des; in Siac duracolour buff road surface finish	65	m2			
C	Ditto as last with 30% natural red aggregate within surface finish	15	m2			
	Kerbs					
D	150 x 125mm high heavy duty precast concrete kerbs, splayed on one side and cast in 900mm lengths set on and including 300 x 100mm thick concrete Grade 40 / 20	41	m			
E	Extra over for curved kerbs	5	m			
	Road Markings & Thermoplastic Linemarking (per dwg C-0460)					
F	100mm single white line RRM001	38	m			
	Sundries					
G	Fair joint with existing asphalt carpark	11	m			
	Concrete Paths With Exposed Aggregate Finish					
	Geotextile Membrane					
H	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	218	m2			
	Filling					
	Filling; imported cL 804 material; spread and levelled; average thickness					
J	< 250mm thick	44	m3			
	Surface Treatment					
K	50mm thick limestone fines blinding	218	m2			
	Damp Proof Course					
L	1000 gauge "Visqueen" or equivalent DPM laid on blinding in preparation for concrete footpath in accordance with the manufacturers instructions	218	m2			

					€	c
	Concrete To Exposed Aggregate Concrete Paths; all in accordance with Architects Specification Q21/115, filled in on blinded hardcore and vibrated in:					
	Paths					
A	150mm; to ramps & paths, laid to falls	108	m3			
	Surface Finishes					
B	Float finish; steel trowel	218	m2			
C	Apply vegetable based surface retarder, curing agent and associated pressure washing as required for textured finish	218	m2			
D	Bullnose edge	371	m			
	Steel fabric reinforcement all as before in:					
	Reference A142; end laps per Engineers specification					
E	Horizontal	218	m2			
	Formwork					
F	To edges of path; <250mm	175	m			
	Sundries					
G	Designed joints; form 12mm wide expansion joint in concrete footpaths	73	m			
	Resin Bound Gravel Paths					
	Geotextile Membrane					
H	Geotextile membrane laid loose and all in accordance with the Engineers Specification, to be per CL 609 of the TII specification for roadworks	295	m2			
	Filling					
	Filling; imported Cl 804 material; spread and levelled; average thickness					
J	< 250mm thick	59	m3			
	Surface Treatment					
K	50mm thick limestone fines blinding	295	m2			

				€	c
	Surface & Base Course				
A	Course surface resin bonded hand scattered aggregate with finish Sealer, 30mm of 10mm Open Graded Macadam Surface Course (Max 125 Pen) to BS 4987-1 ref 7.2 or 30mm of 10mm SMA (Max 125 Pen), in well compacted layers, on80mm base course in dense bitumen macadam 28mm nominal size (100 pen grade binder) laid to falls.	295	m2		
	Edge Treatment				
B	4.8 x 102mm mill finish aluminium edging to perimiters	249	m		
	Paving Areas				
	Filling; imported min. T2 Perm granular fill material; spread and levelled; average thickness				
C	< 250mm thick	21	m3		
	Surface Treatment				
D	40mm cement mortar bedding layer	134	m2		
	Paving Slabs				
E	1. Manufacturer: Tobermore 1.1. Location: To private open area of Ground Floor Apartments, West Block 1.2. Product reference: Braemar Slabs | Premium Slab Paving 2. Standard: To BS EN 1339:2003, BS 7533-4:2003, BS 7533-4:2006, ISO 9001:2015, ISO 14001:2015. 3. Physical properties 3.1. Colour: Alto silver. 3.2. Finish: Diamond ground finish. 3.3. Profile 3.3.1. Arrises: Chamfered. 3.4. Dimensions and associated tolerances 3.4.1. Nominal sizes: 600 x 400 x 50 mm. 3.4.2. Tolerances on plan dimension and thickness (nominal): Length: +/-2mm; width: +/-2mm; thickness: +/-3mm. 3.5. Weathering resistance: > 1.5 kg/m2 Class 3. 3.6. Abrasion resistance: Class 3. 3.7. Slip resistance: Low. 3.8. Skid resistance: Low. 3.9. Environmental performance requirements 3.9.1. Recycled content (minimum): 6%. 4. TensileStrength: >5MPa (Class 3). 5. Granite content: Not less than 63.3% of granite aggregate in surface layer. 6. Efflorescence: Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence. 7. Durability Class: Class 3. 8. Reaction to fire: Class A1. 9. BREEAM rating: A (A+ can be achieved when used with recycled sub-base). 10. Finishing surface: Hard-wearing surface layer with a minimum of 4 mm and >390 kg/m3 cement. 11. Verification: Provide samples. All per Architects Specification Q25/315	134	m2		

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	Ramp & Stairs To Rear Of West Block					
	Excavation & Earthworks					
	Separating membrane; Terram 1000 Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions					
	Horizontal					
A	Generally	43	m2			
	Reduce levels					
B	Depth < or = 2.0m	22	m3			
	Foundation trenches					
C	Depth < or = 2.0m	12	m3			
	Filling					
	Filling; T2 granular material in accordance with Annex E of S.R.21:2016; spread and levelled; in making up levels; average thickness					
D	< 0.25m	25	m3			
	Surface Treatments					
E	50mm minimum thickness T3 blinding material	43	m2			
	Lean Mix Blinding;					
F	75mm minimum thickness, poured on or against earth or unblinded hardcore	30	m2			
	Damp Proof Course					
G	1000 gauge "Visqueen" or equivalent DPM laid on blinding in preparation for concrete footpath in accordance with the manufacturers instructions	43	m2			
	Concrete Grade C32/40;					
	filled in on blinded hardcore / leanmix concrete and vibrated in:					
H	Concrete Slab, 150mm thick; laid to falls	7	m3			
J	Foundations; reinforced; cast against sides of excavation	9	m3			
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	To walls; varying heights around ramp					
A	200mm thick	4	m3			
	Sundries					
	Surface Finish; to falls and crossfalls					
B	Trowel finish and subsequently star roll upper surface	43	m2			
C	Trowel finish to top of in situ concrete upstand kerb; 200mm wide	99	m			
	Steel fabric reinforcement all as before in:					
	Reference A393; end laps per Engineers specification					
D	Horizontal	73	m2			
E	Vertical	20	m2			
	Formwork					
	Wrot formwork having to Engineers Specification					
	Upstand					
F	Form 125 x 75mm deep concrete upstand to top of retaining walls inclusive of all concrete, reinforcement, formwork, surface finish etc. complete	99	m			
	Paving					
G	Curdoroy profile Tactile Flags & Slabs landings	8	m2			
	Sundries					
H	Form fair joint with existing tarmacadam surface	2	m			
J	Allow for making good as necessary existing curved steps to Convent Main Entrance	1	Item			
	Metalwork; Non Structural					
K	45mm Tubular stainless steel balustrade with 2Nr horizontal bars; vertical posts @ 1200mm c/c	50	m			

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	Stairs				
	Excavation & Earthworks				
	Separating membrane; Terram 1000 Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions				
	Horizontal				
A	Generally	10	m2		
	Foundation trenches				
B	Depth < or = 2.0m	2	m3		
	Filling				
	Filling; T2 granular material in accordance with Annex E of S.R.21:2016; spread and levelled; in making up levels; average thickness				
C	< 0.25m	9	m3		
	Surface Treatments				
D	50mm minimum thickness T3 blinding material	10	m2		
	Lean Mix Blinding;				
E	75mm minimum thickness, poured on or against earth or unblinded hardcore	4	m2		
	Damp Proof Course				
F	1000 gauge "Visqueen" or equivalent DPM laid on blinding in preparation for concrete footpath in accordance with the manufacturers instructions	10	m2		
	Concrete Grade C32/40;				
	filled in on blinded hardcore / leanmix concrete and vibrated in:				
G	Concrete Stairs, 150mm thick going; laid to falls	3	m3		
H	Foundations; reinforced; cast against sides of excavation	2	m3		
	Surface Finish; to falls and crossfalls				
J	Trowel finish to treads	24	m		

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	Steel fabric reinforcement all as before in:					
	Reference A393; end laps per Engineers specification					
A	Horizontal	14	m2			
	Formwork					
	Wrot formwork having to Engineers Specification					
B	Edge of steps; <250mm high	22	m			
	Nosing					
C	50 x 25mm recessed slip resistant nosing in contrasting colour; per Architects Drawing 905 detail 05	22	m			
	Paving					
D	Curdoroy profile Tactile Flags & Slabs landings	8	m2			
	Walls					
E	215mm Blockwork	18	m2			
F	Render	14	m2			
	Metalwork; Non Structural					
G	45mm Tubular stainless steel balustrade with 2Nr horizontal bars; vertical posts @ 1200mm c/c	9	m			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
H	Testing		Item			
J	Surveys		Item			
K	Samples		Item			
L	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
M	Testing		Item			
N	Surveys		Item			
P	Samples		Item			

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A	Warranties		Item			

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COLLECTION					
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(40) ROADS, PATHS & PAVINGS - SOCIAL HOUSING (WEST BLOCK) Carried to Summary					

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(50) SITE SERVICES (PIPED AND DUCTED) - SOCIAL HOUSING (WEST BLOCK)						
General Information						
	LOCATION DRAWINGS: Location drawings for this Element are listed in the drawing registers.		Note			
	WORKS REQUIREMENTS: The Contractor is referred to the Drawing and Specifications which accompany this Pricing Document. All Bill of Quantities descriptions shall be read in conjunction with ths information.		Note			
	PRICING DOCUMENT: The Contractor must refer to the Drawings and Specifications for full specification notes and details relating to particular items of work. The Contractor shalll be deemed to have studied the Drawings and Specifications in detail and included for all items necessary for the proper completion of the Works as defined therein.		Note			
	New watermain, foul & storm water pipework to be installed and commissioned BEFORE removal or diversion of existing services & before commencement of proposed building works. Existing school water services to be operational throughout the construction works.		Note			
	In accordance with sub-clause 1.7 of Irish Water Codes of Practice, the Contractor shall procure a Chartered Engineer to issue the below confirmations in writing, as part of their final documents submission to Irish Water for a Conformance Certificate. For the avoidance of any doubt this Chartered Engineer is NOT the Civil/Structural Engineer retained by the Employer as part of the Design Team.					
A	Confirmation by a Chartered Engineer in writing that the Works has been installed in accordance with the design submitted in the Connection Application.		item			
B	Confirmation by a Chartered Engineer in writing that the Works has been installed in accordance with Codes of Practice and Standard Details.		item			
C	Confirmation by a Chartered Engineer in writing indicating that the Work have undergone appropriate on-site testing, off-site testing and commissioning and provision of associated test result certificates.		item			
	FOUL WATER DRAINAGE					

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	DRAINAGE: Below Ground					
	The Wastewater Installation must comply with all aspects of Irish Water`s (1) Code of Practice for Wastewater Infrastructure, and (2) Wastewater Infrastructure Standard Details, included at Volume D for information.		Note			
	Excavating trenches					
	Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clause 808 granular material in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; non degradable marker tape complying with STD-WW-08					
	Pipes < or = 250mm nominal diameter					
A	depth 1000 - 1500mm	61	m			
	Breaking up rock					
B	trench depth 1000 - 1500mm; rock thickness 500mm	5	m			
	Disposal					
	Water					
C	surface		item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242 and complying with WIS 4-08-02, IGN 4-08-01 and STD-WW-07					
	550mm wide x 550mm thick					
D	100mm diameter pipes	17	m			
	600mm wide x 600mm thick					
E	150mm diameter pipes	44	m			
	In-situ concrete bed and surround grade C16/20 to IS EN 206-1; maximum 20mm aggregate; vibrated; expansion joint with compressible filler board at pipe joints; complying with STD-WW-08					
	550mm wide x 550mm thick					
F	100mm diameter pipes	5	m			

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	600mm wide x 500mm thick				
A	150mm diameter pipes	5	m		
	Pipes				
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification section 6 and Irish Water compliant				
	In trenches				
B	100mm diameter	17	m		
C	Extra over for short lengths < or = 3.00m	2	nr		
D	150mm diameter	44	m		
E	Extra over for short lengths < or = 3.00m	3	nr		
	Extra over pipes on which they occur for				
	Swept Bends; double socketed				
F	150mm diameter x 45/90 degrees	3	nr		
	D/S Moulded Mid Radius Rest Bend - 87.5 degrees				
G	150mm diameter	1	nr		
	Branches; triple socketed				
H	150mm x 100mm x 45/90 degrees	4	nr		
	Swept Bends; double socketed				
J	100mm diameter x 45/90 degrees	4	nr		

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	Pipe accessories					
	Gully Trap; S/S universal gully trap, combined with P/E universal gully hopper; galvanised metal grid cover; bed and surround in concrete					
	Gully Traps					
A	150mm diameter outlet	16	nr			
	Armstrong Junction					
	uP.V.C. Armstrong junction having two 150mm diameter inlets and one 150mm outlet, having 300 x 300mm galvanised hinged and lockable steel cover and frame set in cement mortar					
	Armstrong Junctions					
B	depth 500 - 1000mm	10	nr			
C	300mm diameter PVC raising pieces in forming access chambers to AJ's and include for surrounding with 150mm concrete and any necessary formwork	10	No			
D	Extra over for ditto with recessed covers to take concrete paving (elsewhere measured)	5	nr			
	Inspection Chambers					
	Irish Water approved precast concrete private side inspection chamber; excavation, disposal, earthwork support, working space, backfilling in SR21 Annex E material; 225mm thick precast base or 225mm in-situ concrete grade C25/30; pipes built into chamber wall or joint formed with watertight seals; provide rocker pipe with flexible joints where pipelines pass through structures; forming channels, benching and the like for a complete installation; all as per Irish Water Code of Practice and STD-WW-13					
	600mm diamater or 600 x 600mm internal dimensions					
E	1000 - 1500mm deep	1	nr			
F	Extra over for 600mm diameter load class D400 ductile iron cover and frame, including concrete biscuit	1	nr			

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	Manholes					
	Precast concrete manhole units complying with the requirements of IS EN 1917 and BS 5911-Part 3; excavation, disposal, earthwork support, working space, backfilling in clause 808 material; BASE: 75mm thick grade C/12/15 concrete blinding layer; grade C30/37 reinforced concrete base; invert formed with cast in-situ concrete grade C25/30, 20mm aggregate finished with a 1:3 cement sand mortar with steel trowel finish at 1:30 slope towards the channel; benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes; RINGS: precast concrete chamber rings to IS 420 and IS EN 1917:2004; first ring sunk into in-situ concrete base minimum 75mm; elastometric joint seals to EN 681; minimum 150mm thick grade C16/20 in-situ concrete surround externally; ROOF: reinforced concrete slab of in-situ concrete grade C30/37, with a minimum thickness of 225mm designed to carry all live and dead loads, alternatively approved precast concrete roof slabs may be used subject to Irish Water review and compliance with BS 5911-Part 4: 2002; 600mm diameter clear opening for cover and frame (measured elsewhere); SUNDRIES: galvanised mild steel and plastic encapsulated manhole steps complying with IS EN 13101, Type D, Class 1, spaced at 300mm staggered centres, for manholes up to 3.00m deep; including channels, benching and the like necessary for a complete installation; 600mm long rocket pipes on all inlet and outlet pipework; all as per Engineers specification section 6, Irish Water Code of Practice and STD-WW-10					
	1200mm internal diameter					
A	1000 - 1500mm deep	6	nr			
B	1000 - 1500mm deep; constructing on existing live foul sewer	1	nr			
	Ductile iron manhole cover and frame to BS EN 124:1994; bedding frame in cement and sand mortar (1:2); on Class B engineering bricks to IS 91 (min. 1 course, max. 3 courses high) to series 2400 of RCD; laid in cement and sand mortar (1:3) in upstand for manhole cover					
	Covers					
C	load class D400 - 600 x 600mm clear opening	7	nr			
D	Extra over for ditto recessed to take concrete paving (elsewhere measured)	3	nr			

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	Testing and Commissioning				
	Testing and Commissioning				
	Foul water drainage system in accordance with Irish Water Code of Practice which includes; Air test on all pipelines to IS EN 752. Each section of pipeline to be tested on two occasions namely after installation but before backfilling AND after backfilling. All manholes to be tested for exfiltration to IS EN 1610 PRIOR to backfilling. All manholes to be tested for infiltration to CESWI AFTER backfilling. All As built information required by IW including as build layouts and details, CCTV survey footage and reporting, manhole condition surveys. Refer to CoP for full details of requirements.				
A	testing of foul water pipelines, manholes and inspection chambers; all as per Engineers specification clause R12 and IW CoP	1	item		
B	CCTV survey of foul water pipelines and manholes; all as per Engineers specification clause R12 and IW CoP	1	item		
	*****SURFACE WATER DRAINAGE*****				
	DRAINAGE: Below Ground				
	Excavating trenches				
	Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clean washed uniform graded stone (30% voids, no fines) in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; include for water permeable terrram lining to trench; non degradable marker tape; trench width 900mm; all as per Engineers Drawing				
	Pipes < or = 250mm nominal diameter				
C	depth 1000 - 1500mm	54	m		
D	depth 1500 - 2000mm	27	m		
E	depth 2000 - 2500mm	8	m		

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	Extra over excavating trenches irrespective of depth					
	Breaking up rock					
A	trench depth 1500 - 2000mm; rock thickness 500mm	5	m			
	Excavating trenches to receive perforated pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with filter material to Clause 505 (Type B) in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space; include for water permeable terrram lining to trench; non degradable marker tape; trench width 900mm; all as per Engineers Drawing C-0500					
	Pipes < or = 250mm nominal diameter					
B	depth 1500 - 2000mm	36	m			
	Extra over excavating trenches irrespective of depth					
	Breaking up rock					
C	trench depth 1500 - 2000mm; rock thickness 500mm	5	m			
	Water					
D	surface		item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242					
	550mm wide x 550mm thick					
E	100mm diameter pipes	43	m			
	600mm wide x 500mm thick					
F	150mm diameter pipe	41	m			
	750mm wide x 575mm thick					
G	225mm diameter pipe	5	m			
	Granular material to Clause 503.3 (i) to IS EN 13242					
	600mm wide x 500mm thick					
H	150mm diameter pipe	36	m			

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	In-situ concrete to IS EN 206-1, compressive strength class C16/20; maximum aggregate size 20mm; vibrated; expansion joint with compressible filler board at pipe joints					
	450mm wide x 450mm thick					
A	100mm diameter pipe	20	m			
	450mm wide x 450mm thick					
B	150mm diameter pipe	20	m			
	Pipes					
	"WavSpec SN8" or equivalent PVC-U structure wall pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification					
	In trenches					
C	100mm diameter	43	m			
D	Extra over for short lengths < or = 3.00m	2	nr			
E	150mm diameter	41	m			
F	Extra over for short lengths < or = 3.00m	2	nr			
G	225mm diameter	5	m			
H	Extra over for short lengths < or = 3.00m	1	nr			
	Extra over pipes on which they occur for					
	Swept Bends; double socketed					
J	150mm diameter x 45/90 degrees	3	nr			
	Branches; triple socketed					
K	150mm x 100mm x 45/90 degrees	1	nr			
L	225mm x 150mm x 45/90 degrees	1	nr			

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	"WavSpec SN8" or equivalent PVC-U structure wall pipes; Perforated pipes; STANDARD: to IS EN 13476-2: 2007. Type A multi-layer and certified to comply with the requirements of WIS 4-35-01 (2008). Third party approved by National Standards Institute and Kitemark Certified. MATERIAL: PVC-U smooth internal and external with either a foamed or recycled PVC-U core; APPLICATION AREA CODE: designation "UD", suitable for buried applications under and outside a building; STIFFNESS CLASS: SN8 (8Kn/m2); SOCKET: integral socket at one end, fitted with rubber sealing manufactured to IS EN 681-1; PLAIN END: chamfered; QUALITY: manufactured in accordance with Quality Management System IS EN ISO 9001:2008 and Environmental Quality System IS EN ISO 14001:2004; all as per Engineers specification Section 6				
	In trenches				
A	150mm diameter; perforated	36	m		
B	Extra over for short lengths < or = 3.00m	2	nr		
	Extra over pipes on which they occur for				
	Swept Bends; double socketed				
C	150mm diameter x 45/90 degrees	1	nr		
	Pipe accessories				
	Gully Trap; S/S universal gully trap, combined with universal gully hopper; galvanised metal grid cover; bed and surround in concrete				
	Gully Traps				
D	150mm diameter outlet	16	nr		
	Armstrong Junction				
	uP.V.C. Armstrong junction having two 150mm diameter inlets and one 150mm outlet, having 300 x 300mm galvanised hinged and lockable steel cover and frame set in cement mortar				
	Armstrong Junctions				
E	depth 500 - 1000mm	10	nr		
F	300mm diameter PVC raising pieces in forming access chambers to AJ's and include for surrounding with 150mm concrete and any necessary formwork	10	No		
G	Extra over for ditto with recessed covers to take concrete paving (elsewhere measured)	5	nr		

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	"Wavin 450" or equivalent 450mm internal diameter non-entry PVC-U soild wall inspection chamber, manufactured and independently certified to EN13598-1; consisting of universal base unit to suit 150mm diameter inlet and outlet pipework, 450mm long shafts cut to suit depth; bed and surround unit in grade C12/15 in-situ concrete in accordance with the manufacturers written instructions; all as per Engineers specification					
	Inspection chambers - 450mm diameter					
A	depth 500 - 1000mm	7	nr			
	Drainage Channels					
	Drainage channel system with grating; CHANNEL: Aco M100D drainage channel, bedded and surrounded in reinforced concrete Grade C35; on 75mm thick concrete blinding; reinfocement bars and mesh, compacted Clause 804 granular fill, isolation joint both sides; COVER GRATING: heelguard cast iron grating all as per Engineers Drawing C-0500 and specification					
	Size 138mm wide x 150mm deep, including all drain unions, ends, outlets etc.					
B	generally	12	m			

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	Manholes					
	Precast concrete manhole units complying with the requirements of IS EN 1917 and BS 5911-Part 3; excavation, disposal, earthwork support, working space, backfilling in clause 808 material; BASE: 75mm thick grade C/12/15 concrete blinding layer; grade C30/37 reinforced concrete base; invert formed with cast in-situ concrete grade C25/30, 20mm aggregate finished with a 1:3 cement sand mortar with steel trowel finish at 1:30 slope towards the channel; benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes; RINGS: precast concrete chamber rings to IS 420 and IS EN 1917:2004; first ring sunk into in-situ concrete base minimum 75mm; elastometric joint seals to EN 681; minimum 150mm thick grade C16/20 in-situ concrete surround externally; ROOF: reinforced concrete slab of in-situ concrete grade C30/37, with a minimum thickness of 225mm designed to carry all live and dead loads, alternatively approved precast concrete roof slabs may be used subject to Irish Water review and compliance with BS 5911-Part 4: 2002; 600mm diameter clear opening for cover and frame (measured elsewhere); SUNDRIES: galvanised mild steel and plastic encapsulated manhole steps complying with IS EN 13101, Type D, Class 1, spaced at 300mm staggered centres, for manholes up to 3.00m deep; including channels, benching and the like necessary for a complete installation; 600mm long rocket pipes on all inlet and outlet pipework; all as per Engineers specification					
	1200mm internal diameter					
A	1000 - 1500mm deep	1	nr			
	Ductile iron manhole cover and frame to BS EN 124:1994; bedding frame in cement and sand mortar (1:2); on Class B engineering bricks to IS 91 (min. 1 course, max. 3 courses high) to series 2400 of RCD; laid in cement and sand mortar (1:3) in upstand for manhole cover					
	Covers					
B	load class D400 - 600 x 600mm clear opening	1	nr			
C	Extra over for ditto recessed to take concrete paving (elsewhere measured)	1	nr			

					€	c
	Testing and Commissioning					
	Surface water drainage system in accordance with Irish Water Code of Practice which includes; Air test on all pipelines to IS EN 752. Each section of pipeline to be tested on two occasions namely after installation but before backfilling AND after backfilling. All manholes to be tested for exfiltration to IS EN 1610 PRIOR to backfilling. All manholes to be tested for infiltration to CESWI AFTER backfilling. All As built information required by IW including as build layouts and details, CCTV survey footage and reporting, manhole condition surveys. Refer to CoP for full details of requirements.					
A	testing of surface water pipelines, manholes and inspection chambers; all as per Engineers specification	1	item			
B	CCTV survey of surface water pipelines and manholes; all as per Engineers specification	1	item			
	WATERMAIN					
	<u>WATERMAIN: Below Ground</u>					
	The Water Installation must comply with all aspects of Irish Water`s (1) Code of Practice for Water Infrastructure, and (2) Water Infrastructure Standard Details, included at Volume D for information.		Note			
	Excavating trenches					
	<u>Excavating trenches to receive pipes; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with clause 808 granular material in accordance with the NRA Specification for Roadworks, compacted as per clause 802; working space</u>					
	Pipes < or = 250mm nominal diameter					
C	depth 500 - 1000mm	15	m			
D	depth 1000 - 1500mm	72	m			
E	Extra for 400mm wide blue polyethylene marker tape to EN 12163, incorporating reinforcing band bracing wire and complying with STD-W-13	87	m			

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	Disposal					
	Water					
A	surface	1	item			
	Beds and surrounds					
	Granular material, 14mm to 5mm graded aggregate or 10mm single sized aggregate to IS EN 13242 and complying with WIS 4-08-02, IGN 4-08-01 and STD-WW-08					
	300mm wide x 300mm thick bed and surround					
B	32mm diameter pipe	15	m			
	400mm wide x 300mm thick bed and surround					
C	65mm diameter pipe	72	m			
	Pipes					
	Polyethylene service pipe, MDPE (PE-80) SDR 11 pipes and fittings in accordance with IS EN 12201; JOINTS: not permitted; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
D	65mm nominal diameter	72	m			
	Polyethylene service pipe, MDPE (PE-80) SDR 11 pipes and fittings in accordance with IS EN 12201; JOINTS: not permitted; all as per Engineers specification section 6 and Irish Water compliant					
	In trenches					
E	32mm nominal diameter	15	m			
	Extra over pipes on which they occur for					
	Swept Bend					
F	100mm diameter x 45/90 degrees	8	nr			
	Swept Bend					
G	65mm diameter x 45/90 degrees	3	nr			
	Branch					
H	65mm diameter x 32mm diameter	9	nr			

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	Testing and Commissioning Watermains in accordance with Irish Water Code of Practice which includes swabbing, disinfecting, flushing and chlorinating; the need for certified operatives, short term burst test and joint toughness test (prior to pipe laying) both undertaken by accredited laboratory, electrofusion welds are to be cut out from completed Works and subjected to destructive testing as indicated by IW. Allow for 2 electrofusion samples to be cut out per week or 8 in total whichever is greater, for testing by accredited laboratory. The frequency of destructive testing shall increase if failure as defined by IW of a sample occurs. All necessary as build information required by IW including as build drawings and GPS information on all fittings/joints. All as per Engineers specification section 6 and IW CoP.				
A	weld testing	1	item		
B	pressure testing	1	item		
C	scouring and swabbing	1	item		
D	disinfection	1	item		
E	bacteriological and chemical sampling	1	item		
F	flushing	1	item		
G	final documents	1	item		

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COLLECTION					
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(50) SITE SERVICES (PIPED AND DUCTED) - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

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	(60) SITE SERVICES (MAINLY ELECTRICAL) - SOCIAL HOUSING (WEST BLOCK)					
	General Information					
	LOCATION DRAWINGS: Location drawings for this Element are listed in the drawing registers.		Note			
	WORKS REQUIREMENTS: The Contractor is referred to the Drawings and Specifications which accompany this Pricing Document. All Bill of Quantities descriptions shall be read in conjunction with this information.		Note			
	PRICING DOCUMENT: The Contractor must refer to the Drawings and Specifications for full specification notes and details relating to particular items of work. The Contractor shall be deemed to have studied the Drawings and Specifications in detail and included for all items necessary for the proper completion of the Works as defined therein.		Note			
	WORK BY OTHERS ENGAGED DIRECTLY BY THE EMPLOYER					
	Utility Providers					
	Manage, co-ordinate and provide all general and special attendances as required to the following utility providers:					
A	ESB Networks - mini-pillars, micro-pillars, mains cabling and unit connections	1	item			
	ESB ELECTRICAL DUCTING					
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground					
	Excavating trenches					
	Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material					
	Pipes < or = 250mm nominal diameter					
B	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	18	m			
C	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	18	m			

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	Disposal				
	Water				
A	surface		item		
	Beds and surrounds				
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier				
	350mm wide x 350mm thick				
B	1 nr. 125mm diameter cable duct	18	m		
	Cable ducts				
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end				
	In trenches				
C	125mm diameter	18	m		
	Extra over pipes on which they occur for				
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling				
	Cable duct bends; 22.5 degrees				
D	125mm diameter	2	nr		
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend				
E	125mm diameter	2	nr		

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	Chambers ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125 Draw pit / access chamber					
A	960mm x 875mm x 1025mm deep	1	nr			
	Mains Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks Connection to existing ESB Mini Pillar					
B	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning Cleaning and proving each duct as per ESB Networks specification					
C	brush and mandrel	1	item			
	*****SITE LIGTING DUCTING*****					
D						
	ELECTRICAL INSTALLATION: Sundries and Builders Work / DRAINAGE: Below Ground **Excavating trenches** Excavating trenches to receive ducts; starting from existing or reduced levels; earthwork support; preparation of surfaces; disposal of excavated material off site; backfilling trenches with cement bound granular material (CBGM) and compacted Clause 804 imported fill material Pipes < or = 250mm nominal diameter					
E	depth 1000 - 1500mm [1 nr. 125mm diameter cable duct]	101	m			

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A	Extra for Yellow Marker Warning Tape; 250mm wide; ESB Code 2955090	101	m			
	Disposal					
	Water					
B	surface		item			
	Beds and surrounds					
	ESN Networks approved sand bedding and surround to cable ducts; EN 12620 natural unwashed sand from approved supplier					
	350mm wide x 350mm thick					
C	1 nr. 125mm diameter cable duct	101	m			
	Cable ducts					
	ESB Networks approved red electric solid wall uPVC cable duct to IS 370 colour standard and ESB Networks Specification 16113 (3.8mm minimum wall thickness), with socket and spigot joints along the running length; DRAW ROPE: provide each duct with a strong continuous 12mm diameter polypropylene draw rope free of knots and securely anchored at each end					
	In trenches					
D	125mm diameter	101	m			
	Extra over pipes on which they occur for					
	ESB Networks approved 1200mm long radius bends; enclose all duct bends in 15 Newton CBM4 concrete to secure them against movement during cable pulling					
	Cable duct bends; 22.5 degrees					
E	125mm diameter	8	nr			
	Cable duct bends; 11/22.5/45/90 degrees; including minimum 200mm thickness of CBM4 on inside of bend					
F	125mm diameter	8	nr			

				€	c
	Chambers				
	ESB Networks approved precast concrete / preformed plastic draw pit / access chamber; 150mm thick grade C25/30 concrete base slab, A393 fabric mesh reinforcement, formwork; excavation; disposal; backfilling with clause 804 granular sub base material; COVER AND FRAME: ESB Networks approved VC2 ductile iron cover in a galvanised steel frame, load class B125				
	Draw pit / access chamber				
A	615mm x 615mm x 850mm deep	2	nr		
B	960mm x 875mm x 1025mm deep	1	nr		
	Polypropylene duct chamber adjacent to each light column; 450 x 450mm square, minium Class C250 C/W cast iron lid and frame; refer to Engineers specification and drawing (6-)E001				
	Duct Chamber				
C	generally	6	nr		
	Bases				
	Composite item, lamp standard base; mass concrete grade C25/30 base; include for all necessary excavation, disposal of excavated material off site, backfilling and formwork; include for 450mm diameter vertical pipe sleeve, include for wedges and non shrink grout to position lamp standard; complete with 125mm duct at 45 degree fall; include for draw wire for cable entry				
	Lamp standard base				
D	750 x 750 x 1500mm deep - [6m high above ground lighting column]	6	nr		
E	750 x 750 x 1500mm deep - [6m high above ground CCTV poles]	2	nr		
	Testing and Commissioning				
	Cleaning and proving each duct as per specification				
F	brush and mandrel	1	item		

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	Mains					
	Connection to existing ESB mini pillar; locating and connecting 1 no. 125mm dia. cable duct into existing chamber; all pipework and fittings necessary to complete installation; make good all structures and finishes on completion; including attendances on ESB Networks					
	Connection to existing ESB Mini Pillar					
A	average depth 1000 - 1500mm	1	nr			
	Testing and commissioning					
	Cleaning and proving each duct as per ESB Networks specification					
B	brush and mandrel	1	item			

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COLLECTION					
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Page No. West SDW/6/3					
Page No. West SDW/6/4					
Page No. West SDW/6/5					
Page No. West SDW/6/6					
(60) SITE SERVICES (MAINLY ELECTRICAL) - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

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	(70) SITE FITTINGS - SOCIAL HOUSING (WEST BLOCK)					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 104, 105, 710, 711 & Architects Specification		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Cycle Stands					
F	Stainless Steel Cycle Stands; 1. Quantity - as shown on Architectural Drawing 105 2. Manufacturer: Submit proposal 2.1. Product reference: Sheffield Cycle Parking Stand (BXMW/GS0 Senior With Tapping Bar Sheffield Cycle Stand) 3. Stand type: Sheffield Cycle Stand 4. Number of stands: Single. 5. Base: Submerged baseplate. 6. Finish as delivered: Stainless steel. 7. Size:: 800 x 715 mm. Inclusive of all fixings, base plates etc. Inclusive also of bases and required excavation, disposal off site, concrete, formwork, reinforcement etc. complete, fixings, base plates. All in accordance with Architects Specification Q50	24	No			

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	Seating					
	Composite Item					
	1. Description: Location - refer Architectural Drawing 105. 2. Manufacturer: Omos 2.1. Product reference: S56 Bench 3. Material: Hardwood timber seat with cut stone ends and galvanized mild steel frame 4. Size: 2m length x 615 width x 455 height 5. Accessories/ Special requirements: Anti-graffiti coating 6. Method of fixing: Anchored base with concealed fixing. Inclusive also of bases and required excavation, disposal off site, concrete, formwork, reinforcement etc. complete. All in accordance with Architects Specification Q50					
A	Overall 2000mm long x 615mm wide x 455mm high; hardwood timber seat with cut stone ends and galvanised mild steel frame	11	No			
	Litter Bins					
B	1. Description: bin locations to be agreed with architect 2. Manufacturer: Omos 2.1. Product reference: s50 steel litter bin 3. Material: 316 Grade Stainless steel 4. Method of fixing: Base plate bolted to 400 x 400 x 400 mm concrete base 100 mm below paving surface and inclusive of all associated excavation, disposal off site, concrete, formwork, reinforcement etc. complete, fixings, base plates. All in accordance with Architects Specification Q50	2	No			
	Signage					
	Signage; supply and fix complete; including backing board, post and all fittings; excavation, disposal off site, backfilling with selected excavated material compacted in layers; 450 x 450 x 700mm deep in-situ concrete grade C30/20 base; formwork; reinforcement complete					
	External Signage as per Architects Drawing 710, 711 and Specification N14/200; powdercoated aluminium sign and frame; lettering and translations into Irish Language to Architects later selection and approval					
C	Sign Type EX-06 - External Information Panel; 1000 x 460mm high sign; fixed to support posts	1	no			

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	External Signage as per Architects Drawing 710, 711 and Specification N14/200; Grade 316 stainless plate; lettering and translations into Irish Language to Architects later selection and approval; with Braille included in colour band					
A	Sign Type EX-03 - External Room Signs; 200 x 200mm high sign; fixed to wall	1	no			
B	Sign Type EX-04 - Housing Front Door Sign; 1000 x 230mm high sign; fixed to wall	1	no			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

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COLLECTION					
Page No. West SDW/7/1					
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Page No. West SDW/7/3					
(70) SITE FITTINGS - SOCIAL HOUSING (WEST BLOCK) Carried to Summary					

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	(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - SOCIAL HOUSING (WEST BLOCK)					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 104, 105 & Architects Specification		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
	Play Equipment					
	Supply and fix in position the following equipment including all necessary bolts, anchorages and fixings, treatment of timber, on site painting generally; include also for all necessary Reinforced Concrete Foundations / Bases, digging, disposal of excaved materal off site, etc. complete. all to the satisfaction of the Architect and as per Specification Section Q52 in the following:					
	Play Swings					
F	Play Swings in accordance with Architects Specification Q52/340A	1	No			
	Climbing frame					
G	Climbing Frame in accordance with Architects Specification Q52/340B	1	No			
	Imaginative play structures					
H	Imaginative play structures in accordance with Architects Specification Q52/340C	3	No			
	See-saws					
J	See-saws in accordance with Architects Specification Q52/340D	1	No			

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	Combined play structures					
A	Combined play structure in accordance with Architects Specification Q52/340F	1	No			
	Combined play structures					
B	Combined play structure in accordance with Architects Specification Q52/340G	3	No			
	Play slides					
C	Play slides in accordance with Architects Specification Q52/340H	1	No			
	Wheelchair Accessible Carousel					
D	Wheelchair Accessible Carousel in accordance with Architects Specification Q52/340J	1	No			
	PlayGround Surfacing					
	Filling; hardcore to Clause 804 granular sub-base material Type B to NRA Specification; spread and levelled; in making up levels; compacted in layers in accordance with Clause 802 of the NRA Specification; average thickness:-					
E	< 0.25m	10	m3			
	Surface Treatments					
F	50mm thick limestone fines blinding	64	m2			
	In-situ synthetic safety surface - PlayGround					
	1. Sub-base: Coated macadam paving 1.1. Thickness: 100mm - or to manufacturer's recommendations 2. Surface course: Wet pour, in situ laid polyurethane bound EPDM rubber crumb surface. 2.1. Manufacturer: HMS Decorative Surfacing Limited 2.1.1. Product reference: DecraPlay EPDM Wet Pour Safety Surfacing 2.2. Standard: To BS 7188. 2.3. Colour: Allow for full colour range 2.4. Recycled content: 75%. 2.5. Slip resistance - water wet (minimum): PTV of >40. 2.6. Curing time: 6-24 hours. 2.7. Critical fall height when tested to BS EN 1177: 3.0 m 3. Submit 3.1. Resistance to abrasive wear, slip resistance, resistance to indentation and ease of ignition: Evidence of testing to BS 7188. 3.2. Critical fall height: Evidence of testing to BS EN 1177.					
G	>300mm	64	m2			

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	Fencing					
	Secure & safe designated enclosure to Play Areas, to be 'Paladin Classic' open mesh steel panel fencing and inclusive of all associated fixings, posts @ 3m c/c with concrete foundations to comply with the design loading requirements specified by Manufacturers technical specifications, excavation, disposal of excavated material off site, concrete, reinforcement etc. complete. All as per Architects specifcation and in accordance with Manufacturers specification and instructions					
	Fence					
	Supply and fit Paladin Fence complete					
A	1800mm high	41	m			
	Extra Over for					
B	Matching Single Access Gates, including steel posts, civils works, etc.	1	No			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

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COLLECTION					
Page No. West SDW/8/1					
Page No. West SDW/8/2					
Page No. West SDW/8/3					
(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

					€	c
	(80) LANDSCAPING - SOCIAL HOUSING (WEST BLOCK)					
	INFORMATION					
A	This element of the work has been measured from the Architects Drawings Nos. 103, 104, 125, 105, 900, 901, 902, 910, 916, Specification, Engineers Drawings C0500, 0501, 0550 & Specifications		Note			
B	The Architects and Engineers drawings and specifications are all complementary to each other and should be read in conjunction with one another		Note			
C	The Contractor is advised that the Works Requirements and Pricing Documents are all complementary to each other and should be read in conjuction with one another		Note			
D	For detailed description of workmanship and materials refer to Specifications		Note			
E	The tenderers should examine the Architects drawings and specifications and satisfy themselves as to the nature and extent of works outlined below and should include for all costs in connection with same.		Note			
F	Meeting and adhering to all relevant statutory Health & Safety reqruiements, including provision of documentation & administration to comply with Health & Safety (Construction) Act 2001	1	Item			
G	Existing trees to be retained and protected in accordance with BS5873.	1	Item			
	Landscaping					
	Topsoil					
H	Take suitable excavated topsoil stored on site; spread and levelled; assume 250mm thick throughout	110	m3			
	Topsoil					
	Approved imported topsoil in accordance with Architects Specification Q28 and deposited in :					
J	450mm thick layer	1,187	m2			
K	Infill to planters	11	m3			
	Spray with Weedkiller					
L	Spray all planting and grass areas with approved herbicide prior to planting and all as per Landscape Architects Specification	1,187	m2			

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	Cultivate					
	Cultivate topsoil as per Landscape Architect's specification. Note the layer of soil should be raked or harrowed to remove stones and even out all planting areas					
A	Planting areas	1,187	m2			
	Mulch					
B	Supply and spread mulch per Architects Specification; 75mm deep	178	m2			
	Planting					
C	Stainless Steel Wire Mesh trellis frame to Refuse Store as per Architect Drawing 908	60	m2			
D	Extra over last for climbing plants per Architects Specification Q21/216 planted and set to stainless steel trellis	27	m			
	Planting. Areas per Architects Drawing 105; all in accordance with Architects Specification Q31					
	Plants					
	Planting rates to include for all associated excavation, backfilling with specified materials, preparation and application methods all as outlined in Landscape Architects Specification					
E	Areas 'A' Wildflower Seed mix: per Architects Drawing 105. 50% wildflower mix 50% general amenity grass seed mix. Wildflower seed mix: Trifolium pratense (red clover) Trifolium repens (white clover) Valeriana officinalis Anemone nemorosa Caltha palustris Digitalis purpurea Cardamine pratensis Leucanthemum vulgare Hypericum elodes Primula veris Primula vulgaris Succisa pratensis	402	m2			
F	Areas 'B' Planting - Low shrub planting decorative: per Architects Drawing 105. Species: Achillea milefolium Allium Holandicum 'Purple Sensation' Aquilega Vulgaris Asplenium Scolopendrium Bellis perennis Betonica Officinalis 'Hummelo' Carex Flacca Crocosmia Masoniorum Deschampsia Cespitosa Dryopteris Filix-mas Geranium Pratense Helicotrichon Sempervirens Hermerocallis 'Lemon Bells' Kniphofia 'Tawny King' Lavendula angustifolia 'Hidcote' Luecanthemum Vulgare Muscari Americanum Narcissuss Poeticus Origanum Vulgare Plomis Russeliana Primula Veris Primula Vulgaris Rudbeckia Fulgida 'Goldstrum' Sanguisorba Officanalis Veronicastrum Virgimicrum 'Album' Veronicastrum Virginicum 'Erica' plants approc 30cm height, 30cm spacing	207	m2			

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A	Area 'M' Planting - Woodland Planting 40-60cm high Species: Rosa pimpinelligolia Rosa Canina Viburnum opulus Phyllitis Scolopendrium (20-30cm high) Oxalis acetosella Anemone x Honorine Jobert (japanese anemone)	188	m2			
B	Area 'N' Grass Mix - General amenity grass seed mix	312	m2			
C	Planting - Garden Hedges Ilex Aquiform Rosa Canina 3ft plants 30cm apart	50	m			
D	Timber post and wire fence 1200mm high	50	m			
	<u>Trees</u>					
	Excavate and dispose of surplus subsoil off site, include for backfilling with topsoil to 75mm deeper than root system and wide enough to accomodate roots when fully spread, supply and plant semi mature trees each having double stake and crossbar, protect as required, all as per Architects Specification					
E	'F' Clear Stemmed semi-mature trees Species: Alder Downey Birch Bird Cherry Sessile Oak	15	No			
F	'G' Multi Stemmed Semi Mature Trees Species: Spindle Goat Willow Hawthorn Sloe	24	No			
	<u>Tree pit root barriers</u>					
G	Greenleaf ReBoot 2000 or equivalent, all per Architects Specfication Q31/510	39	No			
	<u>Tree pit irrigation and ventilation accessories</u>					
H	Mona plant irrigation system ring 77 or equivalent, all per Architects Specification Q31/512	39	No			
	<u>Tree Pit Drainage</u>					
J	1. Depth of excavation: Increase from specified size to allow for aggregate layer, with base slightly falling to outlet 2. Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm 2.1. Depth: 200 mm 3. Geotextile filter: Contractor's choice, submit proposals 3.1. Position: Lay over aggregate before installing tree or backfill 4. Completed pits: Test for free drainage before planting	39	No			

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	Underground Guying					
A	1. Manufacturer: Platipus Anchors Limited 1.1. Product reference: Platypus RF1P for Multistem Trees 2. Anchoring system: Three no. drive-in anchors 3. Installation: Ensure that tree is positioned correctly and vertically, prior to tightening of guy linetensioners	39	No			
	Tree Ties					
B	Tree ties in accordance with Architects Specification Q31/530	39	No			
	Staking - Double Staking					
C	Double staking in accordance with Architects Specification Q31/550	39	No			
	Tree Protection					
D	1. Type: Spiral 2. Material: Tubex Spiral Guards, PVC 600mm high x 38mm diameter 3. Size: 0.6m high x 150mm diameter 4. Colour: Brown 5. Support: Single timber stake (where no support for small trees) 6. Additional requirements: Ensure that protection methods do not impede natural movement of trees or restrict growth	41	No			
	Fencings/Edgings					
	Allow for timber edgings in dividing Allotments					
E	Timber Edgings; Softwood LARCH board- Size: 225 mm x 15 mm; Fixing: Nailed to 50 mm x 50 mm x 600 mm long softwood pegs driven into the ground at 1200 mm centres; Installation height: 30 mm below grass surface; Curved boards: Closely spaced vertical grooves cut in the back to achieve smooth flowing lines; Preservative treatment: As section Z12 and British Wood Preserving and Damp proofing Association Commodity Specification C4.	57	m			

					€	c
	MAINTENANCE					
	1. Duration: Carry out the operations in the following clauses from completion of planting until 24 months after Substantial Completion. 2. Frequency of maintenance visits: Monthly during growing season. More frequent, as required eg for watering					
	Failures of planting					
A	1. Defects due to materials or workmanship not in accordance with the contract: Plants/ trees/shrubs that have failed to thrive 1.1. Exclusions: Theft or malicious damage after completion. 1.2. Rectification: Replace with equivalent plants/ trees/ shrubs. 2. Replacements: To match size of adjacent or nearby plants of the same species or to match the original specification: whichever is the greater 3. Timing of making good: As soon as possible and at the suitable time of year. All in accordance with Architects Specification Q31/720	1	Item			
	Cleanliness					
B	1. Soil and arisings: Remove from hard surfaces and grassed areas 2. General: Leave the works in a clean, tidy condition at completion and after any maintenance operations. All in accordance with Architects Specification Q31/740	1	Item			

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	Planting maintenance generally					
A	1. Weed control: Maintain weed-free area around each tree and shrub 1.1. Diameter (minimum): The larger of 1m or the surface of original planting pit 1.2. Keep planting beds clear of weeds: By maintaining full thickness of mulch 2. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch 3. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools 4. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs 5. Trees: Spray crown when in leaf during warm weather. 5.1. Timing: After dusk. 6. Tree accessories: Check condition of stakes, ties, guys, guards, and irrigation and ventilation systems 6.1. Broken or missing items: Replace. 6.2. Loose stakes: Re-firm in the ground or replace as necessary to provide support to the tree. 6.3. Loose guys: Re-firm anchor points and adjust as necessary to provide support to the tree. 6.4. Ties: Adjust to accommodate growth and prevent constriction or abrasion. 6.5. Damage to bark: Cut back neatly with sharp knife. Prevent further damage. 6.6. Frequency of checks: Every month 7. Watering: As required for healthy establishment, depending on weather conditions. All in accordance with Architects Specification Q31/750	1	Item			
	Planting maintenance - pruning					
B	1. General: Prune to promote healthy growth and natural shape 1.1. Dead, dying, diseased wood and suckers: Remove. 1.2. Timing: As appropriate to the species 1.3. Trees: Favour a single central leading shoot 2. Arisings: Remove. All in accordance with Architects Specification Q31/760	1	Item			
	Woodland planting maintenance					
C	1. Watering: Only as necessary to prevent plants wilting 2. Loose plants: Re-firm surrounding soil, without compacting 3. Weed control: Cut down and remove weeds prior to setting seed in a 1 m-diameter area around each tree 4. Vegetation except trees and coppice shoots to be retained: Cut within the plantation area 4.1. Height (maximum): 50 mm 4.2. Arisings: Leave between rows. 5. Mechanical, chemical or mulching methods of vegetation control: Submit proposals. 6. Ditches and drains: Keep clear 7. Watering: As required to maintain healthy planting. All in accordance with Architects Specification Q31/770	1	Item			

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	Maintenance instructions					
A	1. General: Before end of the maintenance period, submit printed instructions recommending procedures to be established by the employer for the maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the rectification period.	1	Item			
	790 Final mulching					
B	1. Timing: At end of the maintenance period 2. Watering: Ensure that soil is thoroughly moistened prior to re-mulching, applying water where necessary 3. Planting beds: Re-mulch 4. Depth (minimum): 75 mm 5. Trees: Re-mulch 6. Depth (minimum): 75 mm	178	m2			
	Testing, Surveys & Samples					
	Include for all testing, surveys, samples & warranty requirments as set out in the Architects works requirements					
C	Testing		Item			
D	Surveys		Item			
E	Samples		Item			
F	Warranties		Item			
	Include for all testing, surveys, samples & warranty requirments as set out in the Engineers works requirements					
G	Testing		Item			
H	Surveys		Item			
J	Samples		Item			
K	Warranties		Item			

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COLLECTION					
Page No. West SDW/9/1					
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Page No. West SDW/9/5					
Page No. West SDW/9/6					
Page No. West SDW/9/7					
(80) LANDSCAPING - SOCIAL HOUSING (WEST BLOCK) **Carried to Summary**					

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SUMMARY	**Page No.**				
(10) PREPARED SITE - SOCIAL HOUSING (WEST BLOCK)	West SDW/1/4				
(20) SITE STRUCTURES - SOCIAL HOUSING (WEST BLOCK)	West SDW/2/18				
(30) SITE ENCLOSURES - SOCIAL HOUSING (WEST BLOCK)	West SDW/3/15				
(40) ROADS, PATHS & PAVINGS - SOCIAL HOUSING (WEST BLOCK)	West SDW/4/10				
(50) SITE SERVICES (PIPED AND DUCTED) - SOCIAL HOUSING (WEST BLOCK)	West SDW/5/15				
(60) SITE SERVICES (MAINLY ELECTRICAL) - SOCIAL HOUSING (WEST BLOCK)	West SDW/6/7				
(70) SITE FITTINGS - SOCIAL HOUSING (WEST BLOCK)	West SDW/7/4				
(70) SITE FITTINGS - PLAY AREAS & EQUIPMENT - SOCIAL HOUSING (WEST BLOCK)	West SDW/8/4				
(80) LANDSCAPING - SOCIAL HOUSING (WEST BLOCK)	West SDW/9/8				
TOTAL AMOUNT CARRIED TO MAIN SUMMARY					
West SDW/1/1 - West SDW/9/8 .					

Ref	Description			
	Preliminaries & Insurances (Option 1 - No Phasing)			€
	Convent Building - DVR			€
	East Block - DVR			€
	West Block - Social Housing			€
	Site Development Works - DVR			€
	Site Development Works - Social Housing			€
	<u>Project Supervisor - Construction Stage</u> Provide for acting as Project Supervisor (Construction Stage), including co-operating with the the Project Supervisor Design Process in the preparation and hand over to the client of the safety file on Substantial Completion.	Item		
	The form of appointment of Project Supervisor for Construction Stage shall be as per the current model form issued by the Department of Finance for Public Works	Item		
	<u>Performance Bond</u> Provide for entering into a bond with an approved Insurance company for the due performance of the contract within the time limited by the contract to the value of 10% of the amount tendered. The bond is required for a minimum period of fifteen months after the date of issue of the Cerificate of Practical Completion and the cost of this requirement is to be included here.	Item		
	The form of performance bond shall be as per the current model form issued by the Department of Finance for Public Works Construction Contracts	Item		
	Total (Excluding VAT)			**€**