

Description	Qty	Unit	Rate	Total
			€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)</u> <u>GENERALLY</u> The Contractor should note the following <u>Notes</u> 1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details. 2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Mechanical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included. <u>WATER INSTALLATION</u> <u>HOT & COLD WATER</u> <u>PRIMARY EQUIPMENT</u> Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Storage Tank</u> 5000L Cold water storage Tank with lid -2650mm x 1150mm x 2000mm; ricel or equal and approved; Cold water tank to be insulated to format 30 and fitted with drip trays piped to outside or to foul drain via tundish <u>Water Heater</u> under-sink heater shall have a minimum of 10 litres capacity. The electrical circuit serving the under-sink heaters shall be controlled by relay operated by a 7-day, 24-hour time clock located in an agreed location. <u>Pumps</u>		note note		
	1	nr		
	9	nr		

Ref: 2793

BOQ 1/1

To Collection €:

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	Booster as per specification	1	nr		
<u>Water Treatment</u>					
B	Water Treatment	1	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
<u>Accessories associated with Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Ballofix Isolation valve	78	nr		
D	Thermostatic mixing Valve	16	nr		
E	Safety Relief valve	16	nr		
F	Pleasure reducing valve	6	nr		
G	Isolating gate valve	20	nr		
H	Drain Cock	4	nr		
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	pipework; complete	1	Item		
K	connection; cold water storage tank	1	nr		
L	connection; sink (Mains Supply)	1	nr		
M	connection; WC	10	nr		
N	connection; WHB	16	nr		
P	Connection shower	2	nr		
Q	Connection to appliances	2	nr		
<u>INSULATION</u>					
Ref: 2793		BOQ 1/2		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
<u>Insulation; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	insulation; complete	1	Item		
<u>GENERAL</u>					
<u>Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	testing and commissioning	1	Item		
C	operating and maintenance manuals	1	Item		
D	working drawings	1	Item		
E	co-ordinated drawings	1	Item		
F	as built drawings	1	Item		
G	marking the positions of holes, mortice's and chases	1	Item		
H	identification plates and labels	1	Item		
<u>VENTILATION / HVAC INSTALLATION</u>					
<u>PRIMARY EQUIPMENT</u>					
<u>Primary Equipment; Extract Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	Outdoor; PURYEP350YNWA2 OU 01 & OU 03	2	nr		
K	Outdoor; MUZAP25VG OU02	1	nr		
L	Indoor; PLFY-M40VEM6-E	2	nr		
M	Indoor; PLFY-M63VEM6-E	1	nr		
N	Indoor; PLFY-M32VEM6-E	1	nr		
P	Indoor; PLFY-P20VFM-E	4	nr		
Q	Indoor; PLFY-P15VFM-E	18	nr		
R	Indoor; MSZ-AY25VGK	1	nr		
Ref: 2793		BOQ 1/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	Indoor; PLFY-P25VFM-E	7	nr		
B	Indoor ; Heat recovery unit ; LGH-65RVX3-E	2	nr		
C	Indoor ; Heat recovery unit ; LGH-35RVX3-E	2	nr		
D	Indoor ; Heat recovery unit ; LGH-25RVX3-E	15	nr		
E	Indoor ; Heat recovery unit ; LGH-15RVX3-E	11	nr		
F	Indoor ; Heat recovery unit ; LGH-50RVX3-E	2	nr		
G	Indoor ; Heat recovery unit ; SYSTEMAIR K 100 EC Sileo	1	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
Accessories associated with Primary Equipment; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
H	Supply Grilles: 125mm diameter; SX125	1	nr		
J	Supply Grilles: 300mm x 300mm; DG4	17	nr		
K	Supply Grilles: 225mm x 225mm; DG4	11	nr		
L	Supply Grilles: 375mm x 375mm; DG4	2	nr		
M	Supply Grilles: 450mm x 450mm; DG4	1	nr		
N	Extract Grilles; 100mm diameter ; GX100	1	nr		
P	Extract Grilles; 300mm x 300mm series GE	19	nr		
Q	Extract Grilles; 225mm x 225mm series GE	11	nr		
R	Extract Grilles: 450mm x 450mm; series GE	1			
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
S	ductwork; complete	1	Item		
<u>INSULATION</u>					
Ref: 2793		BOQ 1/4		To Collection €:	

Description	Qty	Unit	Rate	Total
			€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>				
<u>Insulation; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
insulation; complete	1	Item		
<u>GENERAL</u>				
<u>Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
testing and commissioning	1	Item		
operating and maintenance manuals	1	Item		
working drawings	1	Item		
co-ordinated drawings	1	Item		
as built drawings	1	Item		
marking the positions of holes, mortice's and chases	1	Item		
identification plates and labels	1	Item		
<u>DRAINAGE INSTALLATION</u>				
<u>SOILS AND WASTES</u>				
<u>TERMINAL EQUIPMENT AND FITTINGS</u>				
Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications				
connection; WC	10	nr		
connection; WHB	16	nr		
Connection shower	2	nr		
Connection to appliances	2	nr		
<u>ACCESSORIES ASSOCIATED WITH TERMINAL EQUIPMENT AND FITTINGS</u>				

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BOQ 1/5

To Collection €:

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
<u>Accessories associated with Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
Wavin or Equivalent; Internal Downpipes rainwater disposal system; standard fittings, clips & fixings; to selected colour; supplied & fitted in strict accordance with the manufacturers instructions					
A	110mm diameter	16	m		
B	extra; Roof Terminal	2	nr		
C	final connections & associated traps; WC	10	nr		
D	final connections & associated traps; WHB	16	nr		
E	final connections & associated traps; shower	2	nr		
F	final connections & associated traps; Appliances	2	nr		
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	pipework; complete	1	Item		
H	connection; WC	10	nr		
J	connection; WHB	16	nr		
K	Connection shower	2	nr		
L	Connection to appliances	2	nr		
<u>INSULATION</u>					
<u>Insulation; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
M	insulation; complete	1	Item		
Ref: 2793				BOQ 1/6	
				To Collection €:	

**Brennan
Associates**

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**Brennan
Associates**

BOQ 1/8

Tender Addendum

Description	Qty	Unit	Rate	Total
			€	€
<u>(66) TRANSPORT SERVICES</u> <u>GENERALLY</u> The Contractor should note the following <u>Notes</u> Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details. The Contractor is deemed to have visited the site and familiarise themselves with all existing site conditions / features to ascertain the nature and extent of the work required for pricing purposes The Contractor shall include for Preliminaries associated with the Project under the relevant Preliminaries Section included within Volume C. Unless provided for elsewhere, Sub-contractors & Suppliers Preliminaries / On-Costs are deemed to be included within the rates for the relevant item of work. Where an "Any Other Items" section is included within an element, Contractors may include for such costs under this item if they consider it is more appropriate. A full breakdown of any costs included under "Any Other Items" will be required in Quantity-Unit-Rate format Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Mechanical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included. <u>ELECTRICAL INSTALLATIONS</u> <u>GENERALLY</u>		Note Note Note Note		
Ref: 2793 BOQ 2/1 To Collection €:				

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(66) TRANSPORT SERVICES (Continued)</u>					
Transport Services Installations; Lift installations complete; MRL lift type for Transportation of passengers; 1,630kg load wit a speed of 1.0m/s; 2 nr stops with 2 nr entrances central opening doors 900mm; Simplex Full Collective control 240motor starts per hour; Walls to be Brushed stainless steel 304; Non slip Rubber flooring ; brushed stainless steel ceiling with LED lighting; Brushed stainless steel handrail on ONE wall with rounded ends; Half Height to side wall above handrail fixed with Stainless Steel fixing; Digital Dot matrix with direction Indicators; guarantee of material and workmanship must be provided; including lift Supplier to allow for supply of GSM unit and 24 month prepaid SIM all as detailed & described in the Building Services Engineer's Drawings & Specification's;					
<u>Transport Installations</u>					
A	Lift to suit 1,800mm x 1,800mm lift shaft	1	nr		
B	Lift pit ladder	1	nr		
<u>EQUIPMENT, CONTROL GEAR AND SUPPLY</u>					
Fittings					
<u>Lift Installations: complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Modular Light	1	item		
D	Emergency Call Point (Disabled Call)	1	item		
E	Telephone Point	1	item		
F	Fire Alarm Recall	1	item		
G	Remote Monitoring	1	item		
H	CCTV Outlet (Power + CAT. 6)	1	item		
J	Emergency Lighting to IS3217:2013 (Inc. Testing Facility)	1	item		
K	PA Speaker	1	item		
Ref: 2793				BOQ 2/2	
				To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(66) TRANSPORT SERVICES (Continued)</u>					
A	Data Point for Message Relay Point (CAT. 6)	1	item		
B	Voice annunciation	1	item		
C	Deaf Aid loop	1	item		
<u>CABLES AND CABLE COMPARTMENTS</u>					
Sub Mains; Lift					
<u>Cables including all associated terminations; Lift Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
D	cabling; complete	1	item		
Mains; 3 Phase					
<u>Cables including all associated terminations; Lift Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
E	cabling; complete	1	item		
Cable Tray including all associated fittings, tees, bends, grounds, etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Sub Mains Tray</u>					
F	Cable Tray with Fittings: Channel Cable Tray	1	item		
<u>FINAL SUB-CIRCUITS</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Lift Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Modular Light	1	item		
H	Emergency Call Point (Disabled Call)	1	item		
J	Telephone Point	1	item		
K	Fire Alarm Recall	1	item		
Ref: 2793		BOQ 2/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(66) TRANSPORT SERVICES (Continued)</u>					
A	Remote Monitoring	1	item		
B	CCTV Outlet (Power + CAT. 6)	1	item		
C	Emergency Lighting to IS3217:2013 (Inc. Testing Facility)	1	item		
D	PA Speaker	1	item		
E	Data Point for Message Relay Point (CAT. 6)	1	item		
F	Voice annunciation	1	item		
G	Deaf Aid loop	1	item		
<u>SUNDRIES & BUILDERS WORK</u>					
General					
H	Testing and commissioning	1	item		
J	Operating and maintenance manuals	1	item		
K	Drawings including working drawings, co-ordinated drawings, as built drawings	1	item		
L	Marking the positions of holes, mortices and chases	1	item		
M	Identification plates and labels	1	item		
Lifting and Hoisting					
<u>Lifting, hoisting and moving into position</u>					
N	Pipework, Structural supports and Accessories	1	item		
<u>Fireproofing</u>					
<u>Fireproofing services; same standard and integrity as fire rating of structure</u>					
P	generally	1	item		
Supporting Structures					
<u>Grounds & Supports</u>					
Q	Call System	1	item		
R	Name plates	1	item		
Ref: 2793		BOQ 2/4		To Collection €:	

**Brennan
Associates**

BOQ 2/5

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>GENERALLY</u>					
The Contractor should note the following					
<u>Notes</u>					
1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details.			note		
2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Electrical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included.			note		
<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</u>					
<u>LV INSTALLATIONS</u>					
System; supply, install and commission of LV Electrical Centre and Main distribution installations in accordance with Electrical Engineer's Drawings and Specifications					
<u>LV installations</u>					
A	System	1	Item		
Equipment					
<u>Equipment including all associated bus switchgear, enclosures, breakers, fuses, glands, switches, meters, transformers, indicators, supports, fixings, hangers, grounds, loops, casings, plating, isolators, contractors and surge protection; to include all associated bracketing, supports, secondary steelwork, earthing, tags, accessories, etc.; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Mains-distribution board	1	nr		
C	Sub-distribution board	27	nr		
Ref: 2793		BOQ 3/1		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
Mains and sub-mains cables					
<u>Sub Mains cables including all associated terminations; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
General					
<u>LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Testing and commissioning	1	Item		
C	Warranty requirements	1	Item		
D	Operating and maintenance manuals	1	Item		
E	Working drawings	1	Item		
F	Co-ordinated drawings	1	Item		
G	As built drawings	1	Item		
H	Marking the positions of holes, mortices and chases	1	Item		
J	Identification plates and labels	1	Item		
K	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>CABLE LADDER / TRAY / TRUNKING INSTALLATION</u>					
System; Galvanised steel cable ladder / tray / trunking. conduits, baskets, 2 compartment trunking, wiring; including all associated fittings, tees, bends, brackets, supports, fixings, hangers, bends, headers, grounds, casing, covers, plating and mounting etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Cable ladder / tray / trunking installations</u>					
L	System	1	Item		
Ref: 2793		BOQ 3/2		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Cable Tray including all associated fittings, tees, bends, grounds, etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>ELV Tray; Fire Alarm (2 Hour Fire Rated)</u>					
A	50mm x 50mm	216	m		
<u>ELV, Data, General Services</u>					
B	Cable Tray with Fittings: Channel Cable Tray 100 mm x 50 mm	216	m		
C	Cable Tray with Fittings: Channel Cable Tray 100 mm x 50 mm (lights)	50	m		
D	Cable Tray with Fittings: Channel Cable Tray 300 mm x 50 mm	216	m		
Cable Trunking including all associated fittings, tees, bends, grounds, etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications Floor Trunking					
E	Twin Compartment floor trunking	75	m		
Final circuits (including wiring, trunking and concealed conduits and points terminations)					
F	Galvanised steel conduits	1	Item		
General					
<u>Cable Ladder / Tray / Trunking Installation; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Testing and commissioning	1	Item		
H	Warranty requirements	1	Item		
J	Operating and maintenance manuals	1	Item		
K	Working drawings	1	Item		
L	Co-ordinated drawings	1	Item		
Ref: 2793		BOQ 3/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	As built drawings	1	Item		
B	Marking the positions of holes, mortices and chases	1	Item		
C	Identification plates and labels	1	Item		
D	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(62) POWER</u>					
<u>GENERAL SERVICES AND SMALL POWER INSTALLATIONS</u>					
<u>GENERAL SERVICES OUTLETS</u>					
System; supply, install and commission of Power installation in accordance with Electrical Engineer's Drawings and Specifications <u>Power installations</u>					
E	System	1	Item		
<u>FITTINGS</u>					
Fittings; General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Dado Trunking</u>					
F	Dado Trunking; 3 Compartment including internal, external corners, ends, junctions and intersections <u>Wall Mounted</u>	527	m		
G	sockets; Single Switched	69	nr		
H	sockets; Double Switched	330	nr		
J	Floor Box	27	nr		
K	Spur	22	nr		
L	Isolator 32A 400V	1	nr		
M	Isolator 16A 250V	1	nr		
Ref: 2793		BOQ 3/4		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	Isolator 50A 400V	1	nr		
B	Isolator	2	nr		
C	Switch (Kitchen)	6	nr		
D	Isolator For PV	1	nr		
E	AC controller	40	nr		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	sockets; Single Switched	69	nr		
G	sockets; Double Switched	330	nr		
H	Floor Box	27	nr		
J	Spur	22	nr		
K	Isolator 32A 400V	1	nr		
L	Isolator 16A 250V	1	nr		
M	Isolator 50A 400V	1	nr		
N	Isolator	2	nr		
P	One way switch (Kitchen)	6	nr		
Q	Isolator For PV	1	nr		
R	AC controller	40	nr		
General					
<u>General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
S	Testing and commissioning	1	Item		
T	Warranty requirements	1	Item		
Ref: 2793		BOQ 3/5		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	Operating and maintenance manuals	1	Item		
B	Working drawings	1	Item		
C	Co-ordinated drawings	1	Item		
D	As built drawings	1	Item		
E	Marking the positions of holes, mortices and chases	1	Item		
F	Identification plates and labels	1	Item		
G	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EARTHING & BONDING INSTALLATION</u>					
<u>LIGHTNING PROTECTION</u>					
System; supply, install and commission of Earthing and Bonding installations in accordance with Electrical Engineer's Drawings and Specifications <u>Earthing and bonding installations</u>					
H	System	1	Item		
Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with E.T.C.I regulations and the Service Engineer's Drawings and Specifications <u>Fittings; supply and install all as per Engineer's drawings and the Electrical Specification.</u>					
J	earthing & bonding; complete	1	Item		
<u>FITTINGS</u>					
<u>Fittings; Earthing & Bonding; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
K	Horizontal; - PVC covered earth tape (25x3mm)	126	m		
L	Vertical PVC covered earth tape (25x3mm)	64	m		
M	Earth Electrode Inspection Pit Assembly	8	nr		
Ref: 2793		BOQ 3/6		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	Connecting to rails & PV panels	1	item		
<u>EARTHING & BONDING</u>					
<u>Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	earthing & bonding; complete	1	Item		
C	testing and commissioning	1	Item		
D	operating and maintenance manuals	1	Item		
E	working drawings	1	Item		
F	co-ordinated drawings	1	Item		
G	as built drawings	1	Item		
H	marking the positions of holes, mortices and chases	1	Item		
J	identification plates and labels	1	Item		
<u>(63) LIGHTING</u>					
<u>LIGHTING INSTALLATIONS</u>					
System; lighting installations; supply, install and commission of Lighting installations in accordance with Electrical Engineer's Drawings and Specifications <u>Lighting installations</u>					
K	System	1	Item		
Fittings; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Luminaries; Internal</u>					
L	Light1 600mm x 600mm LED panel	165	nr		
M	Light 2 - Circular Recessed LED	56	nr		
N	Light 3 - Surface LED fitting	31	nr		
Ref: 2793		BOQ 3/7		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	Light 4 - Moisture proof LED fitting	6	nr		
B	Light 5 - Circular Recessed LED	4	nr		
C	Light 7 - Surface mounted LED	14	nr		
<u>LIGHTING SWITCHES</u>					
Switches; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Switches; Internal</u>					
<u>Light Switches</u>					
D	One Gang; One way Switch	40	nr		
<u>LIGHTING CONTROL SYSTEM</u>					
Fittings; Lighting Control Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>PIR Daylight Sensors; Internal</u>					
E	PIR	65	nr		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	lighting point; internal	276	nr		
G	One Gang; One way Switch; internal	40	nr		
H	Sensors; Internal	65	nr		
General					
<u>Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	Testing and commissioning	1	Item		
Ref: 2793		BOQ 3/8		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	Warranty requirements	1	Item		
B	Operating and maintenance manuals	1	Item		
C	Working drawings	1	Item		
D	Co-ordinated drawings	1	Item		
E	As built drawings	1	Item		
F	Marking the positions of holes, mortices and chases	1	Item		
G	Identification plates and labels	1	Item		
H	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EMERGENCY LIGHTING INSTALLATIONS</u>					
System; Emergency Lighting Installations; complete; to provide safe exit from the building in event of fire and the Service Engineer's Drawings and Specifications					
<u>Emergency lighting installations</u>					
J	System	1	item		
Fittings; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Luminaries; Internal</u>					
K	Light E1 - Recessed LED Emergency Light	104	nr		
L	Light E2 - Surface Direction Exit Light	43	nr		
M	Light E4 - Industrial Emergency Light	1	nr		
<u>Luminaries; External</u>					
N	Light E3 - External Emergency Bulkhead	7	nr		
Final Circuits (including points terminations)					
Ref: 2793		BOQ 3/9		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	emergency lighting point; internal	148	nr		
B	emergency lighting point; External	7			
General					
<u>Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Testing and commissioning	1	Item		
D	Warranty requirements	1	Item		
E	Operating and maintenance manuals	1	Item		
F	Working drawings	1	Item		
G	Co-ordinated drawings	1	Item		
H	As built drawings	1	Item		
J	Marking the positions of holes, mortices and chases	1	Item		
K	Identification plates and labels	1	Item		
L	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(64) COMMUNICATIONS</u>					
<u>COMMS CABINET</u>					
Equipment					
<u>Equipment; comms cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
M	Main Comms cabinet	1	nr		
N	Room comms cabinet	27	nr		
Ref: 2793		BOQ 3/10		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	cabling; complete	1	Item		
General					
<u>Comms Cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Testing and commissioning	1	Item		
C	Warranty requirements	1	Item		
D	Operating and maintenance manuals	1	Item		
E	Working drawings	1	Item		
F	Co-ordinated drawings	1	Item		
G	As built drawings	1	Item		
H	Marking the positions of holes, mortices and chases	1	Item		
J	Identification plates and labels	1	Item		
K	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>DATA / I.T. INSTALLATION</u>					
System; supply, install and commission of DATA/ I.T. installations; in strict accordance with the Service Engineer's drawings and specifications					
<u>Data / IT installations</u>					
L	System	1	Item		
Fittings; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Data; Wall Mounted</u>					
M	data outlet; 2 Gang	142	nr		
N	Wi-Fi point	37	nr		
P	HDMI	1	nr		
<u>Mains and Sub-mains cables</u>					
Ref: 2793		BOQ 3/11		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
Sub Mains					
<u>Cables including all associated terminations; Data / I.T.</u>					
<u>Installations; complete in strict accordance with the Service</u>					
<u>Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling</u>					
<u>and terminations, etc.; Data / I.T. Installations; complete in</u>					
<u>strict accordance with the Service Engineer's Drawings and</u>					
<u>Specifications</u>					
B	data outlet; 2 Gang	142	nr		
C	Wi-Fi point	37	nr		
D	HDMI	1	nr		
General					
<u>Data / I.T. Installations; complete in strict accordance with</u>					
<u>the Service Engineer's Drawings and Specifications</u>					
E	Testing and commissioning	1	Item		
F	Warranty requirements	1	Item		
G	Operating and maintenance manuals	1	Item		
H	Working drawings	1	Item		
J	Co-ordinated drawings	1	Item		
K	As built drawings	1	Item		
L	Marking the positions of holes, mortices and chases	1	Item		
M	Identification plates and labels	1	Item		
N	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(65) SECURITY AND PROTECTION</u>					
<u>FIRE ALARM</u>					
Ref: 2793		BOQ 3/12		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
System; supply, install and commission of Fire Alarm Installation; in strict accordance with the Service Engineer's drawings and specifications					
<u>Fire Alarm</u>					
A	System	1	Item		
Equipment					
<u>Equipment including all associated bus bars, switchgear, etc.; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	fire alarm control panel	1	nr		
C	fire alarm interface panel	0	nr		
D	disabled refuge alarm panel	1	nr		
E	Disabled Alarm Call point	2	nr		
Fittings					
<u>Fittings; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	smoke detector / sounder	62	nr		
G	smoke detector Ceiling Void	15	nr		
H	smoke detector / sounder / Flashing Beacon	2	nr		
J	Fire Alarm / sounder external	1	nr		
K	heat detector / sounder	1	nr		
L	Input/output module	12	nr		
M	Pull Cord: Pull Cord	4	nr		
N	Disabled alarm reset - Pull cord	2	nr		
P	Door Hold	8	nr		
Q	Manual Call Point (Break Glass Unit)	13	nr		
R	Input/output module - A	12	nr		
Ref: 2793		BOQ 3/13		To Collection €:	

Tender Addendum

	Description	Qty	Unit	Rate	Total
				€	€
	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>				
A	aspirating smoke detector	1	nr		
	<u>MAINS AND SUB-MAINS CABLES</u>				
	Sub Mains; Fire				
	<u>Cables including all associated terminations; Fire Alarm</u> <u>Installations; complete in strict accordance with the Service</u> <u>Engineer's Drawings and Specifications</u>				
B	cabling; complete	1	Item		
	<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>				
	<u>Final Circuit Wiring including all associated conduit, cabling</u> <u>and terminations, etc.; Fire Alarm Installations; complete in</u> <u>strict accordance with the Service Engineer's Drawings and</u> <u>Specifications</u>				
C	smoke detector / sounder	62	nr		
D	smoke detector Ceiling Void	15	nr		
E	smoke detector / sounder / Flashing Beacon	2	nr		
F	Fire Alarm / sounder external	1	nr		
G	heat detector / sounder	1	nr		
H	Input/output module	12	nr		
J	Pull Cord: Pull Cord	4	nr		
K	Disabled alarm reset - Pull cord	2	nr		
L	Door Hold	8	nr		
M	Manual Call Point (Break Glass Unit)	13	nr		
N	Input/output module - A	12	nr		
P	aspirating smoke detector	1	nr		
	General				
	<u>Fire Alarm Installations; complete in strict accordance with</u> <u>the Service Engineer's Drawings and Specifications</u>				
Q	Testing and commissioning	1	Item		
Ref: 2793		BOQ 3/14		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	Warranty requirements	1	Item		
B	Operating and maintenance manuals	1	Item		
C	Working drawings	1	Item		
D	Co-ordinated drawings	1	Item		
E	As built drawings	1	Item		
F	Marking the positions of holes, mortices and chases	1	Item		
G	Identification plates and labels	1	Item		
H	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>PROTECTIVE SERVICES / INTRUDER ALARM</u>					
System; supply, install and commission of Protective Services / Intruder Alarm Installations; in strict accordance with the Service Engineer's drawings and specifications					
<u>Protective Services / Intruder Alarm</u>					
J	System	1	Item		
Equipment					
<u>Equipment including all associated bus bars, switchgear, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
K	Intruder Alarm Panel	1	nr		
Fittings					
<u>Fittings; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
L	Security Motion Detector	30	nr		
M	Door Contact: Door Contact	12	nr		
N	Internal CCTV	8	nr		
Ref: 2793		BOQ 3/15		To Collection €:	

Description	Qty	Unit	Rate	Total
			€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>				
External CCTV	8	nr		
Mortised electrical abloy lock	5	nr		
Door access control module	8	nr		
security alarm sounder	1	nr		
intercom display (with door release)	1	nr		
<u>Mains and Sub-mains cables</u>				
Sub Mains; Protective Services / Intruder Alarm				
<u>Cables including all associated terminations; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
cabling; complete	1	Item		
Final Circuits (including points terminations)				
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
Security Motion Detector	30	nr		
Door Contact: Door Contact	12	nr		
Internal CCTV	8	nr		
External CCTV	8	nr		
Mortised electrical abloy lock	5	nr		
Door access control module	8	nr		
security alarm sounder	1	nr		
intercom display (with door release)	1	nr		
General				

Ref: 2793

BOQ 3/16

To Collection €:

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Testing and commissioning	1	Item		
B	Warranty requirements	1	Item		
C	Operating and maintenance manuals	1	Item		
D	Working drawings	1	Item		
E	Co-ordinated drawings	1	Item		
F	As built drawings	1	Item		
G	Marking the positions of holes, mortices and chases	1	Item		
H	Identification plates and labels	1	Item		
J	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>ELECTRICAL INSTALLATIONS: Generally</u>					
Electrical Services Installations; all as detailed & described in the Building Services Engineer's Drawings & Specifications; total brought forward from the Electrical Services Installations Tender Breakdown as included within the Building Services Engineer's Tender Documents and appended to this Pricing Document (Appendix B); complete					
<u>Electrical Installations</u>					
K	total for Electrical Installations; Brought Forward from Appendix B	1	item		
<u>BUILDERS WORK</u>					
<u>ELECTRICAL INSTALLATIONS: Sundries and Builders Work</u>					
<u>Notes</u>					
Ref: 2793		BOQ 3/17		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Filling and sealing voids around pipework, ductwork etc. shall achieve a decibel rating equivalent to the structure in which the ope is formed. The filling and sealing shall finish neatly flush with the structure and finishes on both face.			Note		
Fire seal opes shall include for all works included in Architect's Specification; intumescent compound for sealing around service members on both faces to provide a 1 hour period of fire resistance. The fire seal is to finish neatly flush with the structure and finishes on both faces. This specification applies to all sections of the Bill of Quantities. Rates are to allow for making good in all trades complete.			Note		
Holes, mortices, chases and the like; Forming or cutting holes; making good structure and finishes, sealing around ope including fire-stopping, flashings, temporary protection works, weathering, disposal of segregated material off site, etc. as required; complete					
<u>Forming Opes; blockwork structure complete including flashings airtight seals; fire stopping etc</u>					
A	25mm diameter	100	nr		
B	100mm Diameter	20	nr		
C	150mm Diameter	10	nr		
D	150mm x 150mm	20	nr		
E	150mm x 75mm	20	nr		
<u>Forming Opes; Precast floor complete including flashings airtight seals; fire stopping etc</u>					
F	100mm Diameter	6	nr		
<u>Forming Opes; metal and insulation roof complete including flashings airtight seals; fire stopping etc</u>					
G	100mm diameter	6	nr		
Ref: 2793		BOQ 3/18		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>Forming Opes; Architectural finishes internal plasterboard wall 12.5mm; complete including forming ope; fire sealing; Making good as per Engineers drawings</u>					
A	Lights	120	nr		
<u>Chases; Blockwork Walls; marking and cutting</u>					
B	25mm x 25mm chase	200	m		
Fireproofing					
<u>Fireproofing; intumescent pillow and Fire batt and mastic to cable containment; to same standard and integrity as fire rating of respective fire compartment / structure; all as detailed on Architects drawing;</u>					
C	25mm diameter	100	nr		
D	100mm Diameter	20	nr		
E	150mm Diameter	10	nr		
F	150mm x 150mm	20	nr		
G	150mm x 75mm	20	nr		
<u>Supporting Structures</u>					
<u>Grounds & Supports</u>					
H	Main Distribution Board	1	nr		
J	Fire alarm	1	nr		
K	Intruder alarm	1	nr		
L	Lights 200mm x 200mm m	100	nr		
Attendances					
<u>Special Attendances to Mechanical Contractor</u>					
M	Offloading and moving heavy electrical equipment	1	item		
N	safe, permanent, or temporary stairs/ladders to roof	1	item		
<u>distribution boards and solar panels</u>					
Ref: 2793		BOQ 3/19		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Fireproofing services; same standard and integrity as fire rating of structure</u>					
A	generally	1	item		
<u>Supporting Structures</u>					
<u>Grounds & Supports</u>					
B	Electrical Distribution board 200kg	1	nr		
C	Lights	120	nr		
D	Fire Panel	1	nr		
E	Alar panel	1	nr		
F	Radiators	15	nr		
G	PV panels (25KG each 2,00mm x 1,000mm)	132	nr		
<u>Painting</u>					
<u>One coat primer; two coats undercoat; one coat enamel high gloss paint</u>					
H	not exceeding 300mm girth; surface mounted conduit including wire brushing priming and paint	20	m		
<u>ANY OTHER ITEMS</u>					
<u>Appendix to Bill of Quantities</u>					
The contractor should include for the total cost including all on-costs required within the Electrical Consultants Pricing Document			note		
<u>(12) OTHER INSTALLATIONS; HEATING</u>					
<u>FITTINGS</u>					
<u>Fittings; Heating; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	Electric Heaters - PLSTi150SSE; 1,500 watts	12	nr		
K	Electric Heaters - PLSTi050SSE; 500 watts	6	nr		
L	Electric Heaters - PLSTi100SSE; 1,000 watts	4	nr		
Ref: 2793		BOQ 3/20		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>MAINS AND SUB-MAINS CABLES</u>					
Sub Mains; Heating					
<u>Cables including all associated terminations; Heating</u>					
<u>Installations; complete in strict accordance with the Service</u>					
<u>Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling</u>					
<u>and terminations, etc; Heating Installations; complete in strict</u>					
<u>accordance with the Service Engineer's Drawings and</u>					
<u>Specifications</u>					
B	Electric Heaters - PLSTi150SSE; 1,500 watts	12	nr		
C	Electric Heaters - PLSTi050SSE; 500 watts	6	nr		
D	Electric Heaters - PLSTi100SSE; 1,000 watts	4	nr		
<u>GENERAL</u>					
<u>Heating Installations; complete in strict accordance with the</u>					
<u>Service Engineer's Drawings and Specifications</u>					
E	testing and commissioning	1	Item		
F	operating and maintenance manuals	1	Item		
G	working drawings	1	Item		
H	co-ordinates drawings	1	Item		
J	as built drawings	1	Item		
K	marking the positions of holes, mortices and chases	1	Item		
L	identification plates and labels	1	Item		
Ref: 2793		BOQ 3/21		To Collection €:	

Tender Addendum

Description	Qty	Unit	Rate	Total
			€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>				
COLLECTION				
BOQ 3/1:				
BOQ 3/2:				
BOQ 3/3:				
BOQ 3/4:				
BOQ 3/5:				
BOQ 3/6:				
BOQ 3/7:				
BOQ 3/8:				
BOQ 3/9:				
BOQ 3/10:				
BOQ 3/11:				
BOQ 3/12:				
BOQ 3/13:				
BOQ 3/14:				
BOQ 3/15:				
BOQ 3/16:				
BOQ 3/17:				
BOQ 3/18:				
BOQ 3/19:				
BOQ 3/20:				
BOQ 3/21:				
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> Carried to Summary:				
Ref: 2793	BOQ 3/22			

Description	Qty	Unit	Rate	Total
			€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)</u> <u>GENERALLY</u> The Contractor should note the following <u>Notes</u> 1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details. 2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Mechanical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included. <u>WATER INSTALLATION</u> <u>HOT & COLD WATER</u> <u>PRIMARY EQUIPMENT</u> Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Storage Tank</u> 340L Cold water storage Tank with lid - 565mm x 565mm x 1410mm; ricel or equal and approved; Cold water tank to be insulated to format 30 and fitted with drip trays piped to outside or to foul drain via tundish <u>Water Heater</u> under-sink heater shall have a minimum of 10 litres capacity. The electrical circuit serving the under-sink heaters shall be controlled by relay operated by a 7-day, 24-hour time clock located in an agreed location. <u>Pumps</u>		note note		
	2	nr		
	3	nr		

Ref: 2793

BOQ 4/1

To Collection €:

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	Booster as per specification	2	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
<u>Accessories associated with Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Ballofix Isolation valve	30	nr		
C	Thermostatic mixing Valve	6	nr		
D	Safety Relief valve	6	nr		
E	Pleasure reducing valve	4	nr		
F	Isolating gate valve	32	nr		
G	Drain Cock	8	nr		
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
H	pipework; complete	1	Item		
J	connection; cold water storage tank	2	nr		
K	connection; sink (Mains Supply)	2	nr		
L	connection; WC	4	nr		
M	connection; WHB	6	nr		
N	Connection shower	2	nr		
P	Connection to appliances	2	nr		
<u>INSULATION</u>					
<u>Insulation; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	insulation; complete	1	Item		
<u>GENERAL</u>					
<u>Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	testing and commissioning	1	Item		
C	operating and maintenance manuals	1	Item		
D	working drawings	1	Item		
E	co-ordinated drawings	1	Item		
F	as built drawings	1	Item		
G	marking the positions of holes, mortice's and chases	1	Item		
H	identification plates and labels	1	Item		
<u>VENTILATION / HVAC INSTALLATION</u>					
<u>PRIMARY EQUIPMENT</u>					
<u>Primary Equipment; Extract Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	Outdoor; MXZ- 3F54VF4; OU-01 & OU-02	2	nr		
K	Indoor; MSZ-HR25VF	3	nr		
L	Indoor; SLZ-M25FA2	3	nr		
M	Indoor ; Heat recovery unit ; Lo-Carbon Tempra SELV P	12	nr		
N	Indoor; Vent Axia LC Centra	3	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
Accessories associated with Primary Equipment; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
P	Supply Grilles: 125mm diameter; SX125	3	nr		
Q	Extract Grilles; 100mm diameter ; GX100	3	nr		
Ref: 2793		BOQ 4/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts;</u>					
<u>Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	ductwork; complete	1	Item		
<u>INSULATION</u>					
<u>Insulation; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	insulation; complete	1	Item		
<u>GENERAL</u>					
<u>Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	testing and commissioning	1	Item		
D	operating and maintenance manuals	1	Item		
E	working drawings	1	Item		
F	co-ordinated drawings	1	Item		
G	as built drawings	1	Item		
H	marking the positions of holes, mortice's and chases	1	Item		
J	identification plates and labels	1	Item		
<u>DRAINAGE INSTALLATION</u>					
<u>SOILS AND WASTES</u>					
<u>TERMINAL EQUIPMENT AND FITTINGS</u>					
Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications					
K	connection; WC	4	nr		
Ref: 2793		BOQ 4/4		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	connection; WHB	6	nr		
B	Connection shower	2	nr		
C	Connection to appliances	2	nr		
<u>ACCESSORIES ASSOCIATED WITH TERMINAL EQUIPMENT AND FITTINGS</u>					
<u>Accessories associated with Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
Wavin or Equivalent; Internal Downpipes rainwater disposal system; standard fittings, clips & fixings; to selected colour; supplied & fitted in strict accordance with the manufacturers instructions					
D	110mm diameter	12	m		
E	extra; Roof Terminal	3	nr		
F	final connections & associated traps; WC	4	nr		
G	final connections & associated traps; WHB	6	nr		
H	final connections & associated traps; shower	2	nr		
J	final connections & associated traps; Appliances	2	nr		
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
K	pipework; complete	1	Item		
L	connection; WC	4	nr		
M	connection; WHB	6	nr		
N	Connection shower	2	nr		
Ref: 2793		BOQ 4/5		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
A	<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>				
	Connection to appliances	2	nr		
B	<u>INSULATION</u>				
	<u>Insulation; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
B	insulation; complete	1	Item		
	<u>GENERAL</u>				
C	<u>Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
	testing and commissioning	1	Item		
D	operating and maintenance manuals	1	Item		
E	working drawings	1	Item		
F	co-ordinated drawings	1	Item		
G	as built drawings	1	Item		
H	marking the positions of holes, mortice's and chases	1	Item		
J	identification plates and labels	1	Item		
Ref: 2793		BOQ 4/6		To Collection €:	

**Brennan
Associates**

BOQ 4/7

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>GENERALLY</u>					
The Contractor should note the following					
<u>Notes</u>					
1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details.			note		
2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Electrical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included.			note		
<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</u>					
<u>LV INSTALLATIONS</u>					
System; supply, install and commission of LV Electrical Centre and Main distribution installations in accordance with Electrical Engineer's Drawings and Specifications					
<u>LV installations</u>					
A	System	1	Item		
Equipment					
<u>Equipment including all associated bus switchgear, enclosures, breakers, fuses, glands, switches, meters, transformers, indicators, supports, fixings, hangers, grounds, loops, casings, plating, isolators, contractors and surge protection; to include all associated bracketing, supports, secondary steelwork, earthing, tags, accessories, etc.; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Mains-distribution board	1	nr		
C	Sub-distribution board	2	nr		
Ref: 2793		BOQ 5/1		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
Mains and sub-mains cables					
<u>Sub Mains cables including all associated terminations; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
General					
<u>LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Testing and commissioning	1	Item		
C	Warranty requirements	1	Item		
D	Operating and maintenance manuals	1	Item		
E	Working drawings	1	Item		
F	Co-ordinated drawings	1	Item		
G	As built drawings	1	Item		
H	Marking the positions of holes, mortices and chases	1	Item		
J	Identification plates and labels	1	Item		
K	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>CABLE LADDER / TRAY / TRUNKING INSTALLATION</u>					
System; Galvanised steel cable ladder / tray / trunking. conduits, baskets, 2 compartment trunking, wiring; including all associated fittings, tees, bends, brackets, supports, fixings, hangers, bends, headers, grounds, casing, covers, plating and mounting etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Cable ladder / tray / trunking installations</u>					
L	System	1	Item		
Ref: 2793		BOQ 5/2		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Cable Tray including all associated fittings, tees, bends, grounds, etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>ELV Tray; Fire Alarm (2 Hour Fire Rated)</u>					
A	50mm x 50mm	170	m		
<u>ELV, Data, General Services</u>					
B	Cable Tray with Fittings: Channel Cable Tray 100 mm x 50 mm	84	m		
C	Cable Tray with Fittings: Channel Cable Tray 200 mm x 50 mm	158	m		
Final circuits (including wiring, trunking and concealed conduits and points terminations)					
D	Galvanised steel conduits	1	Item		
General					
<u>Cable Ladder / Tray / Trunking Installation; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
E	Testing and commissioning	1	Item		
F	Warranty requirements	1	Item		
G	Operating and maintenance manuals	1	Item		
H	Working drawings	1	Item		
J	Co-ordinated drawings	1	Item		
K	As built drawings	1	Item		
L	Marking the positions of holes, mortices and chases	1	Item		
M	Identification plates and labels	1	Item		
N	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(62) POWER</u>					
Ref: 2793		BOQ 5/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
A	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> <u>GENERAL SERVICES AND SMALL POWER</u> <u>INSTALLATIONS</u> <u>GENERAL SERVICES OUTLETS</u> System; supply, install and commission of Power installation in accordance with Electrical Engineer's Drawings and Specifications <u>Power installations</u>	1	Item		
	<u>FITTINGS</u> Fittings; General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Dado Trunking</u>				
B	Dado Trunking; 3 Compartment including internal, external corners, ends, junctions and intersections <u>Wall Mounted</u>	64	m		
C	sockets; Single Switched	14	nr		
D	sockets; Double Switched	86	nr		
E	Spur	32	nr		
F	Isolator	2	nr		
G	Switch (Kitchen)	6	nr		
H	Isolator For PV	1	nr		
J	Thermostat	8	nr		
K	AC controller	6	nr		
Final Circuits (including points terminations) <u>Final Circuit Wiring including all associated conduit, cabling</u> <u>and terminations, etc.; General Services & Small Power</u> <u>Installations; complete in strict accordance with the Service</u> <u>Engineer's Drawings and Specifications</u>					
Ref: 2793		BOQ 5/4		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	sockets; Single Switched	14	nr		
B	sockets; Double Switched	86	nr		
C	Spur	32	nr		
D	Isolator	2	nr		
E	Switch (Kitchen)	6	nr		
F	Isolator For PV	1	nr		
G	Thermostat	8	nr		
H	AC controller	6	nr		
General					
<u>General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	Testing and commissioning	1	Item		
K	Warranty requirements	1	Item		
L	Operating and maintenance manuals	1	Item		
M	Working drawings	1	Item		
N	Co-ordinated drawings	1	Item		
P	As built drawings	1	Item		
Q	Marking the positions of holes, mortices and chases	1	Item		
R	Identification plates and labels	1	Item		
S	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EARTHING & BONDING INSTALLATION</u>					
<u>LIGHTNING PROTECTION</u>					
System; supply, install and commission of Earthing and Bonding installations in accordance with Electrical Engineer's Drawings and Specifications					
Ref: 2793		BOQ 5/5		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Earthing and bonding installations</u>					
A	System	1	Item		
Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with E.T.C.I regulations and the Service Engineer's Drawings and Specifications					
<u>Fittings; supply and install all as per Engineer's drawings and the Electrical Specification.</u>					
B	earthing & bonding; complete	1	Item		
<u>FITTINGS</u>					
<u>Fittings; Earthing & Bonding; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Horizontal; - PVC covered earth tape (25x3mm)	105	m		
D	Vertical PVC covered earth tape (25x3mm)	32	m		
E	Earth Electrode Inspection Pit Assembly	4	nr		
F	Connecting to rails & PV panels	1	item		
<u>EARTHING & BONDING</u>					
<u>Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	earthing & bonding; complete	1	Item		
H	testing and commissioning	1	Item		
J	operating and maintenance manuals	1	Item		
K	working drawings	1	Item		
L	co-ordinated drawings	1	Item		
M	as built drawings	1	Item		
N	marking the positions of holes, mortices and chases	1	Item		
Ref: 2793		BOQ 5/6		To Collection €:	

Tender Addendum

	Description	Qty	Unit	Rate	Total
				€	€
A	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> identification plates and labels	1	Item		
	<u>(63) LIGHTING</u> <u>LIGHTING INSTALLATIONS</u> System; lighting installations; supply, install and commission of Lighting installations in accordance with Electrical Engineer's Drawings and Specifications <u>Lighting installations</u>				
B	System Fittings; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Luminaries; Internal</u>	1	Item		
C	Light 4 - Moisture proof LED fitting	2	nr		
D	Light 5 - Circular Recessed LED	65	nr		
E	Light 6 - Industrial LED high-bay luminaire	12	nr		
	<u>LIGHTING SWITCHES</u> Switches; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Switches; Internal</u> <u>Light Switches</u> One Gang; One way Switch		nr		
	<u>LIGHTING CONTROL SYSTEM</u> Fittings; Lighting Control Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>PIR Daylight Sensors; Internal</u>				
F	PIR	26	nr		
Ref: 2793 BOQ 5/7 To Collection €:					

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	lighting point; internal	79	nr		
	One Gang; One way Switch; internal		nr		
B	Sensors; Internal	26	nr		
General					
<u>Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Testing and commissioning	1	Item		
D	Warranty requirements	1	Item		
E	Operating and maintenance manuals	1	Item		
F	Working drawings	1	Item		
G	Co-ordinated drawings	1	Item		
H	As built drawings	1	Item		
J	Marking the positions of holes, mortices and chases	1	Item		
K	Identification plates and labels	1	Item		
L	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EMERGENCY LIGHTING INSTALLATIONS</u>					
System; Emergency Lighting Installations; complete; to provide safe exit from the building in event of fire and the Service Engineer's Drawings and Specifications					
<u>Emergency lighting installations</u>					
M	System	1	item		
Ref: 2793		BOQ 5/8		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Fittings; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Luminaries; Internal</u>					
A	Light E1 - Recessed LED Emergency Light	32	nr		
B	Light E2 - Surface Direction Exit Light	13	nr		
C	Light E4 - Industrial Emergency Light	10	nr		
<u>Luminaries; External</u>					
D	Light E3 - External Emergency Bulkhead	19	nr		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
E	emergency lighting point; internal	55	nr		
F	emergency lighting point; External	7	nr		
General					
<u>Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Testing and commissioning	1	Item		
H	Warranty requirements	1	Item		
J	Operating and maintenance manuals	1	Item		
K	Working drawings	1	Item		
L	Co-ordinated drawings	1	Item		
M	As built drawings	1	Item		
N	Marking the positions of holes, mortices and chases	1	Item		
P	Identification plates and labels	1	Item		
Ref: 2793		BOQ 5/9		To Collection €:	

Tender Addendum

	Description	Qty	Unit	Rate	Total
				€	€
A	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> provide for earthing in accordance with ETCI and IEE Wiring Regulations <u>(64) COMMUNICATIONS</u> <u>COMMS CABINET</u> Equipment <u>Equipment; comms cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>	1	Item		
B	Main Comms cabinet	2	nr		
C	cabling; complete	1	Item		
	General <u>Comms Cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
D	Testing and commissioning	1	Item		
E	Warranty requirements	1	Item		
F	Operating and maintenance manuals	1	Item		
G	Working drawings	1	Item		
H	Co-ordinated drawings	1	Item		
J	As built drawings	1	Item		
K	Marking the positions of holes, mortices and chases	1	Item		
L	Identification plates and labels	1	Item		
M	provide for earthing in accordance with ETCI and IEE Wiring Regulations <u>DATA / I.T. INSTALLATION</u> System; supply, install and commission of DATA/ I.T. installations; in strict accordance with the Service Engineer's drawings and specifications <u>Data / IT installations</u>	1	Item		
Ref: 2793 BOQ 5/10 To Collection €:					

Tender Addendum

	Description	Qty	Unit	Rate	Total
				€	€
	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>				
A	System	1	Item		
	Fittings; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Data; Wall Mounted</u>				
B	data outlet; 2 Gang	31	nr		
C	WI-Fi point	9	nr		
	<u>Mains and Sub-mains cables</u>				
	Sub Mains				
	<u>Cables including all associated terminations; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
D	cabling; complete	1	Item		
	Final Circuits (including points terminations)				
	<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
E	data outlet; 2 Gang	31	nr		
F	WI-Fi point	9	nr		
	General				
	<u>Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
G	Testing and commissioning	1	Item		
H	Warranty requirements	1	Item		
J	Operating and maintenance manuals	1	Item		
K	Working drawings	1	Item		
L	Co-ordinated drawings	1	Item		
Ref: 2793		BOQ 5/11		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	As built drawings	1	Item		
B	Marking the positions of holes, mortices and chases	1	Item		
C	Identification plates and labels	1	Item		
D	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(65) SECURITY AND PROTECTION</u>					
<u>FIRE ALARM</u>					
System; supply, install and commission of Fire Alarm Installation; in strict accordance with the Service Engineer's drawings and specifications					
<u>Fire Alarm</u>					
E	System	1	Item		
Equipment					
<u>Equipment including all associated bus bars, switchgear, etc.; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	fire alarm control panel	2	nr		
Fittings					
<u>Fittings; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	smoke detector / sounder	19	nr		
H	smoke detector Ceiling Void	5	nr		
J	smoke detector / sounder / Flashing Beacon	2	nr		
K	heat detector / sounder	2	nr		
L	Pull Cord: Pull Cord	3	nr		
M	Disabled alarm reset - Pull cord	2	nr		
N	Manual Call Point (Break Glass Unit)	10	nr		
Ref: 2793		BOQ 5/12		To Collection €:	

Tender Addendum

	Description	Qty	Unit	Rate	Total
				€	€
	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>				
A	Input/output module - A	2	nr		
	<u>MAINS AND SUB-MAINS CABLES</u>				
	Sub Mains; Fire				
	<u>Cables including all associated terminations; Fire Alarm</u> <u>Installations; complete in strict accordance with the Service</u> <u>Engineer's Drawings and Specifications</u>				
B	cabling; complete	1	Item		
	<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>				
	<u>Final Circuit Wiring including all associated conduit, cabling</u> <u>and terminations, etc.; Fire Alarm Installations; complete in</u> <u>strict accordance with the Service Engineer's Drawings and</u> <u>Specifications</u>				
C	smoke detector / sounder	19	nr		
D	smoke detector Ceiling Void	5	nr		
E	smoke detector / sounder / Flashing Beacon	2	nr		
F	heat detector / sounder	2	nr		
G	Pull Cord: Pull Cord	3	nr		
H	Disabled alarm reset - Pull cord	2	nr		
J	Manual Call Point (Break Glass Unit)	10	nr		
K	Input/output module - A	2	nr		
	General				
	<u>Fire Alarm Installations; complete in strict accordance with</u> <u>the Service Engineer's Drawings and Specifications</u>				
L	Testing and commissioning	1	Item		
M	Warranty requirements	1	Item		
N	Operating and maintenance manuals	1	Item		
P	Working drawings	1	Item		
Q	Co-ordinated drawings	1	Item		
Ref: 2793		BOQ 5/13		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
A	As built drawings	1	Item		
B	Marking the positions of holes, mortices and chases	1	Item		
C	Identification plates and labels	1	Item		
D	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>PROTECTIVE SERVICES / INTRUDER ALARM</u>					
System; supply, install and commission of Protective Services / Intruder Alarm Installations; in strict accordance with the Service Engineer's drawings and specifications <u>Protective Services / Intruder Alarm</u>					
E	System	1	Item		
Equipment <u>Equipment including all associated bus bars, switchgear, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	Intruder Alarm Panel	2	nr		
Fittings <u>Fittings; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Security Motion Detector	10	nr		
H	Door Contact: Door Contact	14	nr		
J	intercom display (with door release)	3	nr		
K	Indication LED	2	nr		
<u>Mains and Sub-mains cables</u> Sub Mains; Protective Services / Intruder Alarm					
Ref: 2793		BOQ 5/14		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Cables including all associated terminations; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Security Motion Detector	10	nr		
C	Door Contact: Door Contact	14	nr		
D	intercom display (with door release)	3	nr		
E	Indication LED	2	nr		
General					
<u>Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	Testing and commissioning	1	Item		
G	Warranty requirements	1	Item		
H	Operating and maintenance manuals	1	Item		
J	Working drawings	1	Item		
K	Co-ordinated drawings	1	Item		
L	As built drawings	1	Item		
M	Marking the positions of holes, mortices and chases	1	Item		
N	Identification plates and labels	1	Item		
P	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(12) OTHER INSTALLATIONS; HEATING</u>					
Ref: 2793		BOQ 5/15		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> <u>FITTINGS</u>					
<u>Fittings; Heating; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Electric Heaters - PH-01; AW600u; ATC 600 watts	14	nr		
<u>MAINS AND SUB-MAINS CABLES</u>					
Sub Mains; Heating					
<u>Cables including all associated terminations; Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	cabling; complete	1	Item		
<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc; Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Electric Heaters - PH-01; AW600u; ATC 600 watts	14	nr		
<u>GENERAL</u>					
<u>Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
D	testing and commissioning	1	Item		
E	operating and maintenance manuals	1	Item		
F	working drawings	1	Item		
G	co-ordinates drawings	1	Item		
H	as built drawings	1	Item		
J	marking the positions of holes, mortices and chases	1	Item		
K	identification plates and labels	1	Item		
Ref: 2793		BOQ 5/16		To Collection €:	

**Brennan
Associates**

[illegible]

Description	Qty	Unit	Rate	Total
			€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)</u> <u>GENERALLY</u> The Contractor should note the following <u>Notes</u> 1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details. 2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Mechanical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included. <u>WATER INSTALLATION</u> <u>HOT & COLD WATER</u> <u>PRIMARY EQUIPMENT</u> Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Storage Tank</u> 340L Cold water storage Tank with lid - 565mm x 565mm x 1410mm; ricel or equal and approved; Cold water tank to be insulated to format 30 and fitted with drip trays piped to outside or to foul drain via tundish <u>Water Heater</u> under-sink heater shall have a minimum of 10 litres capacity. The electrical circuit serving the under-sink heaters shall be controlled by relay operated by a 7-day, 24-hour time clock located in an agreed location. <u>Pumps</u>		note note		
	1	nr		
	2	nr		

Ref: 2793

BOQ 6/1

To Collection €:

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
A	Booster as per specification	1	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
<u>Accessories associated with Primary Equipment; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Ballofix Isolation valve	12	nr		
C	Thermostatic mixing Valve	2	nr		
D	Safety Relief valve	2	nr		
E	Pleasure reducing valve	2	nr		
F	Isolating gate valve	16	nr		
G	Drain Cock	4	nr		
<u>DISTRIBUTION SYSTEM</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
H	pipework; complete	1	Item		
J	connection; cold water storage tank	1	nr		
K	connection; sink (Mains Supply)	1	nr		
L	connection; WC	2	nr		
M	connection; WHB	2	nr		
N	Connection shower	1	nr		
<u>INSULATION</u>					
<u>Insulation; Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
P	insulation; complete	1	Item		
Ref: 2793		BOQ 6/2		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
<u>GENERAL</u>					
<u>Hot & Cold Water Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	testing and commissioning	1	Item		
B	operating and maintenance manuals	1	Item		
C	working drawings	1	Item		
D	co-ordinated drawings	1	Item		
E	as built drawings	1	Item		
F	marking the positions of holes, mortice's and chases	1	Item		
G	identification plates and labels	1	Item		
<u>VENTILATION / HVAC INSTALLATION</u>					
<u>PRIMARY EQUIPMENT</u>					
<u>Primary Equipment; Extract Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
H	Outdoor; MXZ- 3F33VF4; OU-02	1	nr		
J	Indoor; SLZ-M25FA2	1	nr		
K	Indoor ; Heat recovery unit ; Lo-Carbon Temptra SELV P	3	nr		
L	Indoor; Vent Axia LC Centra	1	nr		
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>					
Accessories associated with Primary Equipment; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
M	Supply Grilles: 125mm diameter; SX125	1	nr		
N	Extract Grilles; 100mm diameter ; GX100	1	nr		
<u>DISTRIBUTION SYSTEM</u>					
Ref: 2793		BOQ 6/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>					
<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts;</u>					
<u>Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	ductwork; complete	1	Item		
<u>INSULATION</u>					
<u>Insulation; Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	insulation; complete	1	Item		
<u>GENERAL</u>					
<u>Ventilation Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	testing and commissioning	1	Item		
D	operating and maintenance manuals	1	Item		
E	working drawings	1	Item		
F	co-ordinated drawings	1	Item		
G	as built drawings	1	Item		
H	marking the positions of holes, mortice's and chases	1	Item		
J	identification plates and labels	1	Item		
<u>DRAINAGE INSTALLATION</u>					
<u>SOILS AND WASTES</u>					
<u>TERMINAL EQUIPMENT AND FITTINGS</u>					
Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications					
K	connection; WC	2	nr		
L	connection; WHB	2	nr		
Ref: 2793		BOQ 6/4		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
A	<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>				
	Connection shower	1	nr		
	<u>ACCESSORIES ASSOCIATED WITH TERMINAL EQUIPMENT AND FITTINGS</u>				
	<u>Accessories associated with Terminal Equipment and Fittings; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
	Wavin or Equivalent; Internal Downpipes rainwater disposal system; standard fittings, clips & fixings; to selected colour; supplied & fitted in strict accordance with the manufacturers instructions				
B	110mm diameter	8	m		
C	extra; Roof Terminal	2	nr		
D	final connections & associated traps; WC	2	nr		
E	final connections & associated traps; WHB	2	nr		
F	final connections & associated traps; shower	1	nr		
	<u>DISTRIBUTION SYSTEM</u>				
	<u>Distribution System including all joints, brackets, and supports, etc. in running lengths of pipes and ducts; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
G	pipework; complete	1	Item		
H	connection; WC	2	nr		
J	connection; WHB	2	nr		
K	Connection shower	1	nr		
	<u>INSULATION</u>				
	<u>Insulation; Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
Ref: 2793		BOQ 6/5		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
A	<u>(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED) (Continued)</u>				
	insulation; complete	1	Item		
	<u>GENERAL</u>				
	<u>Drainage Installations - Soils & Wastes; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>				
B	testing and commissioning	1	Item		
C	operating and maintenance manuals	1	Item		
D	working drawings	1	Item		
E	co-ordinated drawings	1	Item		
F	as built drawings	1	Item		
G	marking the positions of holes, mortice's and chases	1	Item		
H	identification plates and labels	1	Item		
Ref: 2793		BOQ 6/6		To Collection €:	

**Brennan
Associates**

BOQ 6/7

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>GENERALLY</u>					
The Contractor should note the following					
<u>Notes</u>					
1. Refer to Architect's / Civil & Structural / Building Service Engineer's Drawings & Specifications for full details.			note		
2. Notwithstanding that this Pricing Document is measured in accordance with the Agreed Rules of Measurement 5, the following element is not measured in accordance with ARM5. Tenderers shall refer to agreed Rules of Measurement 4 supplement 2 for guidance on the below measurements; The Electrical design packages are to be priced in accordance with the Contract Specifications and drawings as prepared by the Building Services Engineer (RMCE). All relevant services co-ordination should be included.			note		
<u>(61) ELECTRICAL SUPPLY AND MAIN DISTRIBUTION</u>					
<u>LV INSTALLATIONS</u>					
System; supply, install and commission of LV Electrical Centre and Main distribution installations in accordance with Electrical Engineer's Drawings and Specifications					
<u>LV installations</u>					
A	System	1	Item		
Equipment					
<u>Equipment including all associated bus switchgear, enclosures, breakers, fuses, glands, switches, meters, transformers, indicators, supports, fixings, hangers, grounds, loops, casings, plating, isolators, contractors and surge protection; to include all associated bracketing, supports, secondary steelwork, earthing, tags, accessories, etc.; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Mains-distribution board	1	nr		
C	Sub-distribution board	1	nr		
Ref: 2793		BOQ 7/1		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
Mains and sub-mains cables					
<u>Sub Mains cables including all associated terminations; LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
General					
<u>LV Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Testing and commissioning	1	Item		
C	Warranty requirements	1	Item		
D	Operating and maintenance manuals	1	Item		
E	Working drawings	1	Item		
F	Co-ordinated drawings	1	Item		
G	As built drawings	1	Item		
H	Marking the positions of holes, mortices and chases	1	Item		
J	Identification plates and labels	1	Item		
K	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>CABLE LADDER / TRAY / TRUNKING INSTALLATION</u>					
System; Galvanised steel cable ladder / tray / trunking. conduits, baskets, 2 compartment trunking, wiring; including all associated fittings, tees, bends, brackets, supports, fixings, hangers, bends, headers, grounds, casing, covers, plating and mounting etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Cable ladder / tray / trunking installations</u>					
L	System	1	Item		
Ref: 2793		BOQ 7/2		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Cable Tray including all associated fittings, tees, bends, grounds, etc.; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>ELV Tray; Fire Alarm (2 Hour Fire Rated)</u>					
A	50mm x 50mm	42	m		
<u>ELV, Data, General Services</u>					
B	Cable Tray with Fittings: Channel Cable Tray 100 mm x 50 mm	30	m		
C	Cable Tray with Fittings: Channel Cable Tray 200 mm x 50 mm	62	m		
Final circuits (including wiring, trunking and concealed conduits and points terminations)					
D	Galvanised steel conduits	1	Item		
General					
<u>Cable Ladder / Tray / Trunking Installation; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
E	Testing and commissioning	1	Item		
F	Warranty requirements	1	Item		
G	Operating and maintenance manuals	1	Item		
H	Working drawings	1	Item		
J	Co-ordinated drawings	1	Item		
K	As built drawings	1	Item		
L	Marking the positions of holes, mortices and chases	1	Item		
M	Identification plates and labels	1	Item		
N	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(62) POWER</u>					
Ref: 2793		BOQ 7/3		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
A	<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> <u>GENERAL SERVICES AND SMALL POWER</u> <u>INSTALLATIONS</u> <u>GENERAL SERVICES OUTLETS</u> System; supply, install and commission of Power installation in accordance with Electrical Engineer's Drawings and Specifications <u>Power installations</u>	1	Item		
	<u>FITTINGS</u> Fittings; General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Dado Trunking</u>				
B	Dado Trunking; 3 Compartment including internal, external corners, ends, junctions and intersections <u>Wall Mounted</u>	17	m		
C	sockets; Single Switched	5	nr		
D	sockets; Double Switched	14	nr		
E	Spur	8	nr		
F	Isolator	1	nr		
G	Isolator For PV	1	nr		
H	Thermostat	4	nr		
J	AC controller	2	nr		
K	Final Circuits (including points terminations) <u>Final Circuit Wiring including all associated conduit, cabling</u> <u>and terminations, etc.; General Services & Small Power</u> <u>Installations; complete in strict accordance with the Service</u> <u>Engineer's Drawings and Specifications</u>				
	sockets; Single Switched	5	nr		
Ref: 2793		BOQ 7/4		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	sockets; Double Switched	14	nr		
B	Spur	8	nr		
C	Isolator	1	nr		
D	Isolator For PV	1	nr		
E	Thermostat	4	nr		
F	AC controller	2	nr		
General					
<u>General Services & Small Power Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Testing and commissioning	1	Item		
H	Warranty requirements	1	Item		
J	Operating and maintenance manuals	1	Item		
K	Working drawings	1	Item		
L	Co-ordinated drawings	1	Item		
M	As built drawings	1	Item		
N	Marking the positions of holes, mortices and chases	1	Item		
P	Identification plates and labels	1	Item		
Q	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EARTHING & BONDING INSTALLATION</u>					
<u>LIGHTNING PROTECTION</u>					
System; supply, install and commission of Earthing and Bonding installations in accordance with Electrical Engineer's Drawings and Specifications					
<u>Earthing and bonding installations</u>					
R	System	1	Item		
Ref: 2793		BOQ 7/5		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with E.T.C.I regulations and the Service Engineer's Drawings and Specifications					
<u>Fittings; supply and install all as per Engineer's drawings and the Electrical Specification.</u>					
A	earthing & bonding; complete	1	Item		
<u>FITTINGS</u>					
<u>Fittings; Earthing & Bonding; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Horizontal; - PVC covered earth tape (25x3mm)	51	m		
C	Vertical PVC covered earth tape (25x3mm)	32	m		
D	Earth Electrode Inspection Pit Assembly	4	nr		
E	Connecting to rails & PV panels	1	item		
<u>EARTHING & BONDING</u>					
<u>Earthing & Bonding including all associated testing and commissioning, etc. as required; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	earthing & bonding; complete	1	Item		
G	testing and commissioning	1	Item		
H	operating and maintenance manuals	1	Item		
J	working drawings	1	Item		
K	co-ordinated drawings	1	Item		
L	as built drawings	1	Item		
M	marking the positions of holes, mortices and chases	1	Item		
N	identification plates and labels	1	Item		
<u>(63) LIGHTING</u>					
Ref: 2793		BOQ 7/6		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u> <u>LIGHTING INSTALLATIONS</u>					
System; lighting installations; supply, install and commission of Lighting installations in accordance with Electrical Engineer's Drawings and Specifications <u>Lighting installations</u>					
A	System	1	Item		
Fittings; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>Luminaries; Internal</u>					
	Light 4 - Moisture proof LED fitting		nr		
B	Light 5 - Circular Recessed LED	13	nr		
C	Light 6 - Industrial LED high-bay luminaire	4	nr		
<u>LIGHTING CONTROL SYSTEM</u>					
Fittings; Lighting Control Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications <u>PIR Daylight Sensors; Internal</u>					
D	PIR	8	nr		
Final Circuits (including points terminations) <u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
E	lighting point; internal	17	nr		
F	Sensors; Internal	8	nr		
General <u>Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
Ref: 2793		BOQ 7/7		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	Testing and commissioning	1	Item		
B	Warranty requirements	1	Item		
C	Operating and maintenance manuals	1	Item		
D	Working drawings	1	Item		
E	Co-ordinated drawings	1	Item		
F	As built drawings	1	Item		
G	Marking the positions of holes, mortices and chases	1	Item		
H	Identification plates and labels	1	Item		
J	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>EMERGENCY LIGHTING INSTALLATIONS</u>					
System; Emergency Lighting Installations; complete; to provide safe exit from the building in event of fire and the Service Engineer's Drawings and Specifications					
<u>Emergency lighting installations</u>					
K	System	1	item		
Fittings; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Luminaries; Internal</u>					
L	Light E1 - Recessed LED Emergency Light	9	nr		
M	Light E2 - Surface Direction Exit Light	6	nr		
N	Light E4 - Industrial Emergency Light	4	nr		
<u>Luminaries; External</u>					
P	Light E3 - External Emergency Bulkhead	5	nr		
Final Circuits (including points terminations)					
Ref: 2793		BOQ 7/8		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	emergency lighting point; internal	19	nr		
B	emergency lighting point; External	5	nr		
General					
<u>Emergency Lighting Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	Testing and commissioning	1	Item		
D	Warranty requirements	1	Item		
E	Operating and maintenance manuals	1	Item		
F	Working drawings	1	Item		
G	Co-ordinated drawings	1	Item		
H	As built drawings	1	Item		
J	Marking the positions of holes, mortices and chases	1	Item		
K	Identification plates and labels	1	Item		
L	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(64) COMMUNICATIONS</u>					
<u>COMMS CABINET</u>					
Equipment					
<u>Equipment; comms cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
M	Main Comms cabinet	1	nr		
N	cabling; complete	1	Item		
Ref: 2793		BOQ 7/9		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
General					
<u>Comms Cabinet Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Testing and commissioning	1	Item		
B	Warranty requirements	1	Item		
C	Operating and maintenance manuals	1	Item		
D	Working drawings	1	Item		
E	Co-ordinated drawings	1	Item		
F	As built drawings	1	Item		
G	Marking the positions of holes, mortices and chases	1	Item		
H	Identification plates and labels	1	Item		
J	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>DATA / I.T. INSTALLATION</u>					
System; supply, install and commission of DATA/ I.T. installations; in strict accordance with the Service Engineer's drawings and specifications					
<u>Data / IT installations</u>					
K	System	1	Item		
Fittings; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications					
<u>Data; Wall Mounted</u>					
L	data outlet; 2 Gang	5	nr		
M	Wi-Fi point	3	nr		
<u>Mains and Sub-mains cables</u>					
Sub Mains					
Ref: 2793		BOQ 7/10		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Cables including all associated terminations; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	cabling; complete	1	Item		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	data outlet; 2 Gang	5	nr		
C	Wi-Fi point	3	nr		
General					
<u>Data / I.T. Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
D	Testing and commissioning	1	Item		
E	Warranty requirements	1	Item		
F	Operating and maintenance manuals	1	Item		
G	Working drawings	1	Item		
H	Co-ordinated drawings	1	Item		
J	As built drawings	1	Item		
K	Marking the positions of holes, mortices and chases	1	Item		
L	Identification plates and labels	1	Item		
M	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(65) SECURITY AND PROTECTION</u>					
<u>FIRE ALARM</u>					
System; supply, install and commission of Fire Alarm Installation; in strict accordance with the Service Engineer's drawings and specifications					
Ref: 2793		BOQ 7/11		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
<u>Fire Alarm</u>					
A	System	1	Item		
Equipment					
<u>Equipment including all associated bus bars, switchgear, etc.; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	fire alarm control panel	1	nr		
Fittings					
<u>Fittings; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
C	smoke detector / sounder	6	nr		
D	smoke detector Ceiling Void	2	nr		
E	smoke detector / sounder / Flashing Beacon	1	nr		
F	Pull Cord: Pull Cord	2	nr		
G	Disabled alarm reset - Pull cord	1	nr		
H	Manual Call Point (Break Glass Unit)	4	nr		
<u>MAINS AND SUB-MAINS CABLES</u>					
Sub Mains; Fire					
<u>Cables including all associated terminations; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
J	cabling; complete	1	Item		
<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
K	smoke detector / sounder	6	nr		
Ref: 2793		BOQ 7/12		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
A	smoke detector Ceiling Void	2	nr		
B	smoke detector / sounder / Flashing Beacon	1	nr		
C	Pull Cord: Pull Cord	2	nr		
D	Disabled alarm reset - Pull cord	1	nr		
E	Manual Call Point (Break Glass Unit)	4	nr		
General					
<u>Fire Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	Testing and commissioning	1	Item		
G	Warranty requirements	1	Item		
H	Operating and maintenance manuals	1	Item		
J	Working drawings	1	Item		
K	Co-ordinated drawings	1	Item		
L	As built drawings	1	Item		
M	Marking the positions of holes, mortices and chases	1	Item		
N	Identification plates and labels	1	Item		
P	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>PROTECTIVE SERVICES / INTRUDER ALARM</u>					
System; supply, install and commission of Protective Services / Intruder Alarm Installations; in strict accordance with the Service Engineer's drawings and specifications					
<u>Protective Services / Intruder Alarm</u>					
Q	System	1	Item		
Equipment					
Ref: 2793		BOQ 7/13		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Equipment including all associated bus bars, switchgear, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Intruder Alarm Panel	1	nr		
Fittings					
<u>Fittings; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	Security Motion Detector	2	nr		
C	Door Contact: Door Contact	5	nr		
D	intercom display (with door release)	1	nr		
E	Indication LED	1	nr		
<u>Mains and Sub-mains cables</u>					
Sub Mains; Protective Services / Intruder Alarm					
<u>Cables including all associated terminations; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
F	cabling; complete	1	Item		
Final Circuits (including points terminations)					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc.; Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
G	Security Motion Detector	2	nr		
H	Door Contact: Door Contact	5	nr		
J	intercom display (with door release)	1	nr		
K	Indication LED	1	nr		
Ref: 2793		BOQ 7/14		To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u>					
<u>(Continued)</u>					
General					
<u>Protective Services / Intruder Alarm Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Testing and commissioning	1	Item		
B	Warranty requirements	1	Item		
C	Operating and maintenance manuals	1	Item		
D	Working drawings	1	Item		
E	Co-ordinated drawings	1	Item		
F	As built drawings	1	Item		
G	Marking the positions of holes, mortices and chases	1	Item		
H	Identification plates and labels	1	Item		
J	provide for earthing in accordance with ETCI and IEE Wiring Regulations	1	Item		
<u>(12) OTHER INSTALLATIONS; HEATING</u>					
<u>FITTINGS</u>					
<u>Fittings; Heating; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
K	Electric Heaters - PH-01; AW600u; ATC 600 watts	5	nr		
<u>MAINS AND SUB-MAINS CABLES</u>					
Sub Mains; Heating					
<u>Cables including all associated terminations; Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
L	cabling; complete	1	Item		
<u>FINAL CIRCUITS (INCLUDING POINTS TERMINATIONS)</u>					
Ref: 2793				BOQ 7/15	
				To Collection €:	

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(69) BUILDING SERVICES (MAINLY ELECTRICAL)</u> <u>(Continued)</u>					
<u>Final Circuit Wiring including all associated conduit, cabling and terminations, etc; Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
A	Electric Heaters - PH-01; AW600u; ATC 600 watts	5	nr		
<u>GENERAL</u>					
<u>Heating Installations; complete in strict accordance with the Service Engineer's Drawings and Specifications</u>					
B	testing and commissioning	1	Item		
C	operating and maintenance manuals	1	Item		
D	working drawings	1	Item		
E	co-ordinates drawings	1	Item		
F	as built drawings	1	Item		
G	marking the positions of holes, mortices and chases	1	Item		
H	identification plates and labels	1	Item		
Ref: 2793		BOQ 7/16		To Collection €:	

**Brennan
Associates**

[illegible]

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(42) WALL FINISHES INTERNALLY</u>					
<u>Floor, Wall and Ceiling Finishings: Finishings</u>					
<u>IN SITU FINISHES</u>					
Plaster, to concrete block base; 2nr coats; scud, render; spatter dash first coat using ready-mix mortar; second coat 1:4-5 masonry cement:sand 8-12mm thick; ; to include Expanet mesh or equivalent where breathable air tightness membrane is jointed; All in accordance with the Architects drawings and specifications					
<u>Walls</u>					
A	exceeding 300mm wide	2,787	m2		
<u>Reveals</u>					
B	Skim coat; not exceeding 300mm wide	425	m		
Ref: 2793		BOQ 8/1		To Collection €:	

**Brennan
Associates**

Description	Qty	Unit	Rate	Total
			€	€
(42) WALL FINISHES INTERNALLY (Continued)				
COLLECTION				
BOQ 8/1:				
(42) WALL FINISHES INTERNALLY				
Carried to Summary:				
Ref: 2793 BOQ 8/2				

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(42) WALL FINISHES INTERNALLY</u>					
<u>Floor, Wall and Ceiling Finishings: Finishings</u>					
<u>IN SITU FINISHES</u>					
Plaster, to concrete block base; 2nr coats; scud, render; spatter dash first coat using ready-mix mortar; second coat 1:4-5 masonry cement:sand 8-12mm thick; ; to include Expanet mesh or equivalent where breathable air tightness membrane is jointed; All in accordance with the Architects drawings and specifications					
<u>Walls</u>					
A	Skim coat; exceeding 300mm wide	781	m2		
<u>Reveals</u>					
B	Skim coat; not exceeding 300mm wide	83	m		
Ref: 2793		BOQ 9/1		To Collection €:	

**Brennan
Associates**

BOQ 9/2

Tender Addendum

Description		Qty	Unit	Rate	Total
				€	€
<u>(42) WALL FINISHES INTERNALLY</u>					
<u>Floor, Wall and Ceiling Finishings: Finishings</u>					
<u>IN SITU FINISHES</u>					
Plaster, to concrete block base; 2nr coats; scud, render; spatter dash first coat using ready-mix mortar; second coat 1:4-5 masonry cement:sand 8-12mm thick; ; to include Expanet mesh or equivalent where breathable air tightness membrane is jointed; All in accordance with the Architects drawings and specifications					
<u>Walls</u>					
A	exceeding 300mm wide	209	m2		
<u>Reveals</u>					
B	Skim coat; not exceeding 300mm wide	29	m		
Ref: 2793		BOQ 10/1		To Collection €:	

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GENERAL SUMMARY

Element	Page No	Total
		€
Collection Summary		
(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)	1/1 - 1/7	
(66) TRANSPORT SERVICES	2/1 - 2/4	
(69) BUILDING SERVICES (MAINLY ELECTRICAL)	3/1 - 3/21	
(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)	4/1 - 4/6	
(69) BUILDING SERVICES (MAINLY ELECTRICAL)	5/1 - 5/16	
(59) BUILDING SERVICES (MAINLY PIPED AND DUCTED)	6/1 - 6/6	
(69) BUILDING SERVICES (MAINLY ELECTRICAL)	7/1 - 7/16	
(42) WALL FINISHES INTERNALLY	8/1	
(42) WALL FINISHES INTERNALLY	9/1	
(42) WALL FINISHES INTERNALLY	10/1	
Total Amount To Form of Tender (Excluding VAT):		