

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

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

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

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(31) EXTERNAL WALL COMPLETIONS				(Continued)
A	>300mm high; refer to Architects detail 10 on drawing 4002-D2-P01; to protruding curtain wall sill; Annex building <u>Insulation; structural foam with thermal conductivity of 0.68W/m2k to bottom of curtain walls; all in accordance with manufacturers specification and Architects drawings and specification</u> <u>Thermal</u>	16 m2		
B	<300mm high; refer to Architects detail 8 on Architects drawing 4001-D2-P01; Architects building	14 m		
C	<300mm high; refer to Architects detail 1 on Architects drawing 4002-D2-P01; Annex building	32 m		
D	<300mm high; refer to Architects detail 10 on drawing 4101-D2-P01; Aras HQ METALWORK <u>COMPOSITE ITEMS</u> <u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; thermal performance 0.85W/m2K; curtain walling retrofitted into existing openings; include for all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings</u> <u>Curtain walling</u> <u>All curtain walling below shall to be to the Architects building</u>	20 m		
E	Curtain wall type 1; overall size 1740 x 3250mm high; ref CW0.01; Architects building	1 nr		
F	^^^^extra over for leaf and half door glazed with safety glass; overall size 1740 x 2190mm high	1 nr		
G	^^^^extra over for manifestation	4 m2		
H	^^^^extra over for cane detection rail	1 nr		
I	Curtain wall type 2; overall size 570 x 3300mm high; glazed with safety glass; ref CW0.02; Architects building	1 nr		
J	^^^^extra over for spandrel panel; approx size 570 x 420mm high	1 nr		
K	^^^^extra over for acid etched glass for privacy	1 nr		
L	Curtain wall type 3; overall size 570 x 3290mm high; glazed with safety glass; ref CW0.03; Architects building	1 nr		
M	^^^^extra over for spandrel panel; approx size 570 x 160mm high	1 nr		
N	Curtain wall type 4; overal size 570 x 3360mm high; glazed with safety glass; ref CW1.02; Architects building	1 nr		
O	^^^^extra over for acid etched glass for privacy; panel size 570 x 3360mm high	1 nr		
P	Curtain wall type 5; overall size approx 7611 x 3245mm high; ref CW0.04; Architects building	1 nr		
Q	^^^^extra over for panels glazed with safety glass; panel size approx 1200 x 970mm high	6 nr		
R	^^^^extra over for insulated frame extender piece to be installed at head of curtain wall; 7611mm long	1 nr		
S	Curtain wall type 6; overall size approx 1702 x 3250mm high; ref CW0.05; Architects building	1 nr		
T	^^^^extra over for leaf and half door glazed with safety glass; size 1702 x 2135mm high	1 nr		
U	^^^^extra over for manifestation	4 m2		
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(31) EXTERNAL WALL COMPLETIONS				(Continued)
A	^^^^extra over for cane detection rail	1	nr	
B	^^^^extra over for electrical works and builders works associated with automation of the door	1	nr	
C	Curtain wall type 7; overall size approx 1750 x 4181mm high ; ref CW1.01; Architects building	1	nr	
D	^^^^extra over for panel glazed with acid etched sanitised glass for privacy	1	nr	
E	^^^^extra over for safety glass; panels size approx 951 x 800mm high	2	nr	
F	^^^^extra over for safety glass; panels size approx 951 x 800mm high	2	nr	
G	^^^^extra over for openable sections with 100mm restrictor with manual override; panel size approx 600 x 810mm high	1	nr	
H	^^^^extra over for openable sections with 100mm restrictor with manual override; panel size approx 600 x 1385mm high	1	nr	
I	^^^^extra over for spandrel panel; approx size 951 x 180mm high	1	nr	
J	^^^^extra over for spandrel panel; approx size 541 x 180mm high	1	nr	
	<u>All windows below shall be to the Annex building :</u>			
K	Window type 1; overall size approx 4313 x 2070mm high	1	nr	
L	^^^^extra over for one and half door; overall size approx 1653 x 2070mm high	1	nr	
M	^^^^extra over for automated single door; size approx 925 x 2070mm high	1	nr	
N	^^^^extra over for metal rail with cane protection fixed to door at ground level	1	nr	
O	^^^^extra over for electrical works associated with access control	1	nr	
P	^^^^extra over for manifestation	9	m2	
Q	Window type 2; L-shaped; overall size approx 8100 x 2090mm high	1	nr	
R	^^^^extra over for double sliding door; overall size approx 3376 x 2090mm high	1	nr	
S	^^^^extra over for spandrel panel approx 255mm x 2090mm high	1	nr	
T	^^^^extra over for spandrel panel approx 305mm x 2090mm high	1	nr	
U	^^^^extra over for support steelwork to corner window	1	nr	
V	^^^^extra over for manifestation	17	m2	
	<u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; with 100mm restrictor with manual override to openable sections; thermal performance 0.85W/ m2K; curtain walling retrofitted into existing openings; include for all necessary fixings; include for actuators to openable sections in accordance with Electrical Engineers specification; all in accordance with manufacturers instructions and Architects specification and drawings and schedules</u>			
	<u>Curtain walling</u>			
	<u>All windows below shall be to the Annex building :</u>			
W	Window type 15; L-shaped; overall size approx 6270mm x 4530mm high	1	nr	
X	^^^^extra over for spandrel panel approx 930 x 580mm high	1	nr	
Y	^^^^extra over for spandrel panel approx 910 x 580mm high	1	nr	
Z	^^^^extra over for spandrel panel approx 2200 x 580mm high	1	nr	
AA	^^^^extra over for spandrel panel approx 2225 x 580mm high	1	nr	
AB	^^^^extra over for works associated with electrical and BMS requirements	4	nr	
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A	^^^^extra over for support steelwork to corner window	1	nr	
B	^^^^extra over for manifestation	28	m2	
C	^^^^extra over for openable sections; panel size approx 930 x 570mm high	1	nr	
D	^^^^extra over for openable sections; panel size approx 910 x 570mm high	1	nr	
E	^^^^extra over for openable sections; panel size approx 930 x 1295mm high	1	nr	
F	^^^^extra over for openable sections; panel size approx 910 x 1295mm high	1	nr	
G	Window type 19; overall size approx 12015mm x 3434mm high	1	nr	
H	^^^^extra over for works associated with electrical and BMS requirements	8	nr	
I	^^^^extra over for spandrel panel approx 12015 x 300mm high	1	nr	
J	^^^^extra over for spandrel panel approx 12015 x 180mm high	1	nr	
K	^^^^extra over for spandrel panel approx 3004 x 180mm high	1	nr	
L	^^^^extra over for spandrel panel approx 3004 x 985mm high	4	nr	
M	^^^^extra over for AOV; size approx 1502 x 985mm high	8	nr	
N	Window type 20; overall size approx 1060mm x 3500mm high	1	nr	
O	^^^^extra over for AOV; approx size 1060 x 570mm high	2	nr	
P	^^^^extra over for safety glass glazing	1	nr	
Q	Window type 27; overall size approx 600mm x 4200mm high	1	nr	
R	^^^^extra over for AOV n.e 1m2	2	nr	
S	^^^^extra over for spandrel panel 600 x 315mm high	1	nr	
T	^^^^extra over for safety glass glazing	1	nr	
U	^^^^extra over for works associated with electrical and BMS requirements	2	nr	
<u>Supply and install;curtain walling; thermally broken aluminium pressure equalised stick system; triple glazed; thermal performance 0.85W/m2K; curtain walling retrofitted into existing openings; fitted with 100mm restrictor with manual override to openable sections; include for all necessary fixings; all in accordance with manufacturers instructions and Architects specification and drawings and schedules</u> <u>Curtain walling</u> <u>All windows below shall be to the Aras HQ building :</u>				
V	Curtain wall type 1; 940 x 8330mm high	2	nr	
W	^^^^extra over for AOV, size approx 940 x 1599mm high	2	nr	
X	^^^^extra over for openable sections; size approx 940 x 1709mm high	2	nr	
Y	^^^^extra over for openable sections; size approx 940 x 949mm high	2	nr	
Z	^^^^extra over for spandrel panels; size 940 x 1050mm high	2	nr	
AA	^^^^extra over for spandrel panels; size approx 940 x 820mm high	2	nr	
AB	^^^^extra over or spandrel panels; size approx 940 x 200mm high	2	nr	
AC	Curtain wall type 2; overall size 900 x 10320mm high	1	nr	
AD	^^^^extra over for single swing single door; size 900 x 2040mm high	1	nr	
AE	^^^^extra over for AOV; size approx 900 x 949mm high	1	nr	
AF	^^^^extra over for AOV; size approx 900 x 1709mm high	1	nr	
AG	^^^^extra over for AOV; size approx 900 x 1565mm high	1	nr	

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

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A	^^^^extra over for openable section; with acid etched glass for privacy; size approx 960 x 1185mm high	1	nr		
B	^^^^extra over for acid etched glass for privacy to fixed panel; size approx 960 x 565mm high	1	nr		
C	^^^^extra over for spandrel panel; size 960 x 1515mm high	1	nr		
D	^^^^extra over for spandrel panel; size 960 x 2315mm high	1	nr		
E	^^^^extra over for spandrel panel; size 960 x 200mm high	1	nr		
F	Curtain wall type 8; overall size 3810 x 2830mm high	1	nr		
G	^^^^extra over for openable sections; size approx 1276 x 930mm high	1	nr		
H	^^^^extra over for openable sections; size approx 1265 x 930mm high	1	nr		
I	^^^^extra over for spandrel panels; size 1276 x 920mm high	1	nr		
J	^^^^extra over for spandrel panels; size 1269 x 920mm high	1	nr		
K	^^^^extra over for spandrel panels; size 1265 x 920mm high	1	nr		
L	Curtain wall type 9; overall size 3840 x 2830mm high	1	nr		
M	^^^^extra over for openable sections; size approx 1300 x 950mm high	1	nr		
N	^^^^extra over for openable sections; size approx 1264 x 950mm high	1	nr		
O	^^^^extra over for spandrel panels; size 1300 x 950mm high	1	nr		
P	^^^^extra over for spandrel panels; size 1276 x 950mm high	1	nr		
Q	^^^^extra over for spandrel panels; size 1264 x 950mm high	1	nr		
R	Curtain wall type 10; overall size 1584 x 2919mm high	1	nr		
S	^^^^extra over for spandrel panels; size 1584 x 951mm high	1	nr		
T	Curtain wall type 11; overall size 10681 x 3290mm high	1	nr		
U	^^^^extra over for sliding door; size 1060 x 2080mm high	1	nr		
V	^^^^extra over for safety glass glazing	1	nr		
W	^^^^extra over for electrical works associated with access control and automation of door	1	nr		
X	^^^^extra over for manifestation	35	m2		
Y	Curtain wall type 12; overall size 720 x 6440mm high	2	nr		
Z	^^^^extra over spandrel panel; size 720 x 1050mm high	2	nr		
AA	^^^^extra over for AOV n.e 2m2	2	nr		
AB	^^^^extra over for safety glass glazing; panel size approx 720 x 1185mm high	2	nr		
<u>WINDOWS</u>					
<u>Supply and install; thermally broken triple glazed aluminium window system; with fixed panels; u-value requirement <=0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u>					
<u>Windows and framesets</u>					
<u>All windows below shall be to the Architects building :</u>					
AC	Window Type 1; size 1200 x 1350mm high; to Architects building	1	nr		
AD	Window Type 3; size 1180 x 3200mm high; to Architects building	1	nr		
AE	^^^^extra over for spandrel panel; size approx 1180 x 1150mm high	1	nr		
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A	^^^^extra over for openable section; size 1180 x 1000mm high	1	nr	
B	Window Type 6; size 570 x 1240mm high; to Architects building	1	nr	
C	^^^^extra over for openable section; size 570 x 1240mm high			
D	Window Type 7; size 210 x 1340mm high; to Architects building	4	nr	
E	Window Type 9; size 570 x 570mm high; to Architects building	2	nr	
F	Window Type 2; size 1380 x 1210mm high; to Architects building	2	nr	
G	^^^^extra over for glazing with acid etched sanitised glass for privacy	2	nr	
H	^^^^extra over for openable section; size approx 670 x 1240mm high	2	nr	
<u>Supply and install; thermally broken triple glazed aluminium window system; with 100mm restrictor with manual override to openable sections; u-value requirement <=0.85W/m2K; powder coated finish; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u> <u>Windows and framesets</u> <u>All windows below shall be to the Annex building :</u>				
I	Window Type 3; size 870 x 1130mm high	1	nr	
J	Window Type 34; size 1800 x 1150mm high	1	nr	
K	Window Type 6; size 2965 x 1130mm high	1	nr	
L	^^^^extra over for acid etched sanitised glazing	1	nr	
M	^^^^extra over for spandrel panel; size 275 x 1130mm high	1	nr	
N	Window Type 9; size 3370 x 1140mm high	1	nr	
O	Window Type 21; size 4088 x 850mm high	1	nr	
P	Window Type 30; size 2000 x 650mm high	1	nr	
Q	Window Type 31; size 1325 x 650mm high	1	nr	
R	Window Type 32; L-shape ; size approx 5760 x 850mm high	1	nr	
S	^^^^extra over for steel support at corner; 850mm high	1	nr	
T	extra over for spandrel panel; size 625 x 850mm high	1	nr	
U	extra over for spandrel panel; size 430 x 850mm high	2	nr	
V	Window Type 33; size 1620 x 1150mm high	2	nr	
<u>Supply and install; thermally broken triple glazed aluminium window system; u-value requirement <=0.85W/m2K; powder coated finish; include for all associated ironmongery; windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification, window schedules and drawings</u> <u>Windows and framesets</u> <u>All windows below shall be to the Annex building :</u>				
W	Window Type 4; size 1800 x 1150mm high	1	nr	
<u>Supply and install; thermally broken triple glazed aluminium window system; window frame to be slimline frame; u-value requirement <=0.85W/m2K; powder coated finish; all in accordance with Architects specification, window schedules and drawings</u> <u>All windows below shall be to the Architects building :</u>				
X	Window Type 4; size 450 x 1240mm high; to Architects building	4	nr	

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

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

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

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Description		Quantity	Rate	Total (€)
(31) EXTERNAL WALL COMPLETIONS				(Continued)
	<u>DOORS</u>			
	<u>Supply and install; solid aluminium doors; high performance solid insulated door leaf and thermally broken aluminium frame; thermal performance u-value <=0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u>			
	<u>Doors and framesets</u>			
A	Door type 1; single swing double door; size 1460 x 2100mm high; ref D0.01; Architects building	1	nr	
B	Door type 1; single swing single door; size 870 x 2080mm high; ref D0.01, D0.02, D0.03; Annex building	3	nr	
	<u>Supply and install; triple glazed doors; glazed with safety glass; thermal performance u-value <=0.85W/m2K; include for all associated ironmongery; all in accordance with Architects specification and drawings and schedules</u>			
	<u>Doors and framesets</u>			
C	Door type 2; single swing single door; size 870 x 2080mm high; ref D0.04; Annex building	1	nr	
D	^^^^extra over for manifestation	1	nr	
E	Door type 1; single swing single door; overall size 1660 x 2390mm high; ref D0.01 and D0.02; Aras HQ	2	nr	
F	^^^^extra over for metal rail with cane protection fixed at ground level	2	nr	
G	^^^^extra over for works associated with installation of power push pad	2	nr	
H	Door type 2; single swing double door; overall size 2096 x 2740mm high; ref D0.03; Aras HQ	1	nr	
I	^^^^extra over for metal rail with cane protection fixed at ground level	1	nr	
J	^^^^extra over for works associated with installation of power push pad	1	nr	
K	Door type 3; single swing single door; overall size 1050 x 2050mm high; ref D1.01; Aras HQ	1	nr	
	<u>Pressed metal steel window cills; fixed at base of windows ; including fixings, gaskets and seals; all fixed in position ; profile and fixings in accordance with Architects specification and drawings</u>			
	<u>Window cills</u>			
L	window cill; approx 260mm wide; to existing blockwalls; refer to detail 8 on drawing 4001-D2-P01; Architects building	45	m	
M	window cill; approx 260mm wide; to existing blockwalls; refer to detail 8 on drawing 4002-D2-P01; Annex building	88	m	
N	aluminium cills; to curtain walling; to Annex building	32	m	
O	window cills; approx 260mm wide; to existing blockwalls; Aras HQ	154	m	
P	aluminium cills; to curtain walling; Aras HQ	29	m	
	<u>Flashings</u>			
Q	Metal flashing to be installed over existing concrete cills; 300-450mm girth; refer to Architects detail 12 on drawing 4002-D2-P01; Architects building	76	m	
R	Pressed metal flashing to protruding curtain wall sill; 950 - 1050mm girth; refer to Architects detail 10 on drawing 4002-D2-P01; Architects building	17	m	
	<u>Louvres</u>			
S	aluminium vents; refer to drawing 2101-D2-P01; Annex building	11	nr	
	<u>Guardrails</u>			
T	guardrails; to internal reveals at second floor level; Aras HQ	7	m	
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Description		Quantity		Rate	Total (€)
(31) EXTERNAL WALL COMPLETIONS					(Continued)
	GLAZING				
	COMPOSITE ITEMS				
	Supply and install; aluminium framed glazed doors; glazed with safety glass; thermal performance u-value <=0.85W/m2K; finish to be confirmed; include for all associated ironmongery; all in accordance with Architects specification and drawings				
	Doors and framesets				
A	Door type 2; single swing single door; size 1200 x 3225mm high; ref D0.02; Architects building	1	nr		
B	Door type 3; single swing single door; size 1140 x 2120mm high; ref D1.01; Architects building	1	nr		
	Supply and install; aluminium framed glazed composite window and door system; doors glazed with safety glass; thermal performance u-value <=0.85W/m2K; finish to be confirmed; include for all associated ironmongery; all in accordance with Architects specification and drawings				
	Composite Window and Door framesets				
	All windows below shall be to the Annex building :				
C	Window type 13; overall size 2070 x 2080mm high	3	nr		
D	^^^^extra over glazed single door; size approximately 870 x 2060mm high	3	nr		
E	^^^^extra over for metal rail with cane protection fixed at ground level	6	nr		
F	^^^^extra over for works associated with installation of power push pad	3	nr		
G	^^^^extra over for builders works associated with access control	3	nr		
H	^^^^extra over for manifestation to door	13	nr		
	Supply and install; aluminium framed glazed composite window and door system; doors glazed with safety glass; window frame to be a slimline frame; thermal performance u-value <=0.85W/m2K; finish to be confirmed; openable windows to be fitted with actuators in accordance with Electrical Engineers specification; include for all associated ironmongery; all in accordance with Architects specification and drawings				
	Composite Window and Door framesets				
	All windows below shall be to the Annex building :				
I	Window type 12; overall size 1530 x 2060mm high	1	nr		
J	^^^^extra over glazed single door; size approximately 870 x 2060mm high	1	nr		
K	^^^^extra over for metal rail with cane protection fixed at ground level	2	nr		
L	^^^^extra over for works associated with installation of power push pad	1	nr		
M	^^^^extra over for works associated with electrical and BMS requirements	1	nr		
N	^^^^extra over for builders works associated with access control	1	nr		
O	^^^^extra over for extender piece to window frame	1	nr		
P	^^^^extra over for manifestation to door	4	nr		
	PAINTING AND DECORATION				
	PAINTING				
	Paint; prepare base, mix and apply; in accordance with manufacturers instructions and Architects specification				
	Second fixings				
Q	window boards; <300mm wide; Architects building	45	m		

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Description		Quantity	Rate	Total (€)
(31) EXTERNAL WALL COMPLETIONS				(Continued)
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(31) EXTERNAL WALL COMPLETIONS Carried to Summary:				

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

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

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

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

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

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Energy Upgrade Works to Aras An Chontae, Castlebar and Westport Leisure Centre, Westport, Co.Mayo
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Description		Quantity	Rate	Total (€)
(45) CEILING FINISHES				(Continued)
A	>300mm wide; horizontal; Aras HQ	201	m2	
B	extra over for perimeter trims	1	item	
<u>Plasterboard ceilings: 15mm type A plasterboard; include for plywood grounds; joints staggered, lapped, scrimmed, taped and sealed with a clean smooth finish ready for skimming; all in accordance with Architects specification and Architects detail 6 on drawing 4001-D2-P01</u> <u>Bulkheads</u>				
C	Vertical plasterboard bulkhead; 335mm high; Architects building	33	m2	
D	Vertical plasterboard bulkhead; 570mm high; Annex building	13	m2	
<u>Suspended tile ceilings; reinstate existing ceiling tiles previously set aside; include for all necessary works; all in accordance with Architects drawings and specification</u> <u>Ceilings</u>				
E	>300mm; horizontal; Aras HQ	108	m2	
F	^^^^extra over for replacement of damaged ceiling tiles	16	m2	
G	^^^^extra over for supply of 1nr box of tiles to match existing	1	item	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
<u>Paint; prepare base, mix and apply; in accordance with manufacturers instructions and Architects specification</u>				
<u>Ceilings</u>				
H	>300mm wide; Architects building	259	m2	
I	>300mm wide; Annex building	432	m2	
J	>300mm wide; Aras HQ	997	m2	
K	>300mm wide; existing plasterboard retained; Aras HQ	165	m2	
<u>Bulkheads</u>				
L	>300mm wide ; Architects building	33	m2	
M	>300mm wide; Annex building; Annex building	13	m2	
(45) CEILING FINISHES				
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Description	Quantity	Rate	Total (€)
(45) CEILING FINISHES COLLECTION Page 61: Page 62: Page 63: (45) CEILING FINISHES Carried to Summary:			(Continued)

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Description		Quantity	Rate	Total (€)
(51) HEATING CENTRE				
	(51) HEATING CENTRE			
	GENERAL NOTES			
A	The Contractor's attention is drawn to the following Services Engineer's tender information associated with this element of the works for the purposes of accurately pricing this section as per Engineers drawings and specification	1	note	
B	The Contractor's attention is drawn to the BQ preliminaries section and the PSDP preliminary safety & health plan and its associated appendices issued as part of this tender for the purposes of pricing this element of the Bill of Quantities	1	note	
C	The tenderer is required to identify any anomalies between this Bill of Quantities and the Architect's & Engineer's drawings and specification for the project through the tender clarification process during the tender period. The specification as issued by the project design team included within the works requirements takes precedence over the descriptions included in this BQ. The client will not accept additional costs claimed for specification/descriptions included within the works requirements which may be described differently here. The contractor is responsible for clarifying such issues during the tender period.	1	note	
D	This element of the BQ is measured in accordance with the Agreed Rules of Measurement 4 Supplement 2 Issue 1, 2013; these are the Agreed Alternative Rules for the Measurement of Services Installations; where quantities of works have been measured & ARM 4/2 only requires itemised works, we have included the quantities in the works description as a guide only for pricing; it is incumbent on the tenderer to verify any of such quantities for themselves	1	note	
E	This is a performance drawing only which should be used for guidance and pricing only.	1	note	
F	Construction/ working drawings are the sole responsibility of the contractor.	1	note	
G	These drawings is to be read in conjunction with all relevant architects This drawing is to be read in conjunction with all relevant architects drawings, indicative survey drawings and mechanical & electrical specifications and schedules.	1	note	
H	Do not scale. This drawing is representative only.	1	note	
I	The consulting engineer shall be notified by the contractor of any errors and/ or omissions on the drawings.	1	note	
J	Exact location of all plant equipment and penetrations are the responsibility of the contractor who shall co-ordinate the installation with other trades.	1	note	
K	Fire cert drawings should be read in conjunction with this drawing.	1	note	
L	The contractor shall note that all pipework and ductwork routes are indicative only.	1	note	
M	Water Service Notes			
N	Automatic air vents to be fitted at all high points throughout the pipework system	1	note	
O	Drain cocks to be fitted at all low points (per level and in each service riser) throughout the system	1	note	
P	Ball-O-Fix valves for external taps shall be fitted internally with easy access.	1	note	
Q	Pipework insulation shall be preformed sections of rigid mineral wool with aluminium foil laminate cover. Insulation shall be fitted to all connections, bends, tees and valves.	1	note	
R	Proprietary jackets with velcro fixing shall be used on all valves over 32mm. Additional taping shall be provided at 2m intervals on insulation within plantrooms	1	note	
S	All hot water outlets shall be provided with TMV3 fail-safe lockable thermostatic blending valves limiting maximum temperature to 43°C. Back-to-back or groups of wash hand basins shall be served by a single blending valve.	1	note	
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Description		Quantity	Rate	Total (€)
(51) HEATING CENTRE				(Continued)
A	All outlets to be provided with quarter turn ball valves to facilitate maintenance.	1	note	
B	Refer to hydronic schematic for primary route valve arrangements. Line size lever-action isolating valves to be provided on ALL branch/tee connections (risers, primary runs, secondary runs and final equipment).	1	note	
C	Pressure reducing valves to be provided onto each floor level at each service riser (refer to schematic)	1	note	
D	Contractor to finalize pump pressure (KPA) once pipes final routes are finalized	1	note	
TRACKING/TRACING				
<u>HEAT TRACING</u>				
E	Contractor to allow for heat tracing to new pipework; all in accordance with Engineers specification	1	item	
STRIP OUT				
<u>EXISTING SERVICES</u>				
<u>Decommission and strip out existing equipment or accessories; include for capping pipework to be retained; disconnect from electrical supply and wiring; include for disposal of equipment as directed by Client /ER ; all in accordance with Engineers specification and drawings</u>				
<u>Existing Equipment or accessories</u>				
F	existing low loss header and piping connection	1	item	
G	existing DHW calorifier, complete with 2nr immersion heaters; at Level 1	1	item	
H	existing pressurization tank; including all associated pipework and accessories	1	item	
I	existing expansion vessel; including all associated pipework and accessories	1	item	
HEATING SERVICES				
<u>PRIMARY EQUIPMENT</u>				
<u>Supply , assemble, install, test & commission the following equipment; in accordance with manufacturers instructions and Engineers specification</u>				
<u>Air Source Heat Pumps</u>				
J	ASHP; Mastertherm or equivalent ; 25kw capacity; ref ASHP-01, ASHP-02, ASHP-03	3	nr	
<u>Buffer vessel</u>				
K	Buffer vessel; Mastertherm or equivalent; 1000L capacity; complete with 3nr internal baffles and 6nr 100mm diameter connection ports; ref BT-01	1	nr	
<u>Heat Pump Control Panel</u>				
L	Heat pump control panel complete with extension box; ref HPCP-RF-01;Aras HQ	1	nr	
<u>Pressurization unit</u>				
M	Pressurization unit; Pumps UK Autopress Twin Pump or equivalent; capacity 18 litres; pressure range exceeding 2.5 bar; include for twim pumps; include for all necessary works; all works in accordance with manufacturers instructions and specification	1	nr	
<u>Expansion vessel</u>				
N	Expansion vessel; Xylem or equivalent; 150 Litre capacity; include for all accessories; all in accordance with manufacturers instructions and specification	1	nr	
<u>ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>				
<u>Supply and install; the following associated with plant and equipment; in accordance with Engineers specification</u>				

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

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

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

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

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

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Description	Quantity	Rate	Total (€)
(61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION COLLECTION Page 80: Page 81: (61) ELECTRICAL SUPPLY AND MAINS DISTRIBUTION Carried to Summary:			(Continued)

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

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

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

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

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

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

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

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

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Description	Quantity	Rate	Total (€)
(57) VENTILATION SERVICES COLLECTION Page 165: Page 166: Page 167: (57) VENTILATION SERVICES Carried to Summary:			(Continued)

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

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

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

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(- -) PV INSTALLATIONS				(Continued)
	<u>PV panels</u>			
A	PV panels; mounted on curved roof	116	nr	
	<u>FITTINGS AND ACCESSORIES ASSOCIATED WITH PRIMARY EQUIPMENT</u>			
	<u>Supply and install; fittings and accessories; all in accordance with Engineers specification and drawing E-60002</u>			
	<u>Fittings</u>			
B	PV inverter; 25kW	2	nr	
C	Emergency disconnect switch	58	nr	
D	63A three pole and neutral isolator switch; IP65 rated; to PV inverter	2	nr	
	<u>CABLING</u>			
	<u>Supply and install; cabling/circuits; including tie-ins, connections, terminations, supports, earthing, bonding, insulation, protection and the like; all in accordance with Engineers specification and drawings</u>			
E	All cabling associated with PV installations	1	item	
	<u>FINAL CIRCUIT (Connection and terminations)</u>			
	<u>Final circuits to PV installations with cable size in accordance with Introba specification</u>			
	<u>PV installation</u>			
F	PV installation	1	item	
	<u>GENERAL</u>			
	<u>Surge Protection</u>			
G	Allow for supply and installation of surge protection devices; in accordance with Engineers specification	1	item	
	<u>Testing and commissioning</u>			
H	Testing and commissioning to PV installations; in accordance with Engineers specification	1	item	
I	Earthing and bonding to PV installations	1	item	
J	Operating and maintenance manuals	1	item	
K	As built drawings	1	item	
L	Identification plates, labels and the like	1	item	
(- -) PV INSTALLATIONS				

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