

CODE	DESCRIPTION	Cost (EURO)	
		Partial	Totals
	<b>TOTAL - Package 03</b>		<b>0.00 €</b>
1	Architecture	0.00 €	
2	Structure	0.00 €	
3	Electricity	0.00 €	
4	ICT	0.00 €	
5a-1	Water Supply	0.00 €	
5a-2	Fire Water Supply	0.00 €	
5b	Waste Water	0.00 €	
5c	Strom Water	0.00 €	
6	Life and Fire Safety	0.00 €	
7	Ventilation and Air Conditioning	0.00 €	
8	Medical Gases	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - ARCHITECTURE</b>					
						<b>0.00 €</b>
	<b>CHAPTER A - CONSTRUCTION SITE</b>					<b>0.00 €</b>
1.	Construction site assembly and disassembly, including plate construction site identifier and fencing; provisional installations namely for the developer; supervision; materials warehouse; equipment and tools; facilities for personnel services; sanitary facilities; provisional networks	a.w	1.0	0.00 €	0.00 €	
2.	Implementation and development of the health, safety and security plan	a.w	1.0	0.00 €	0.00 €	
3.	Implementation and development of the prevention, construction and demolition waste management	a.w	1.0	0.00 €	0.00 €	
4.	Execution of the final cleaning of the work, including all the necessary work and removal from the contractor's deposit of surplus products	a.w	1.0	0.00 €	0.00 €	
	<b>CHAPTER B - DEMOLITIONS</b>					<b>0.00 €</b>
1.	Demolition element by element from the roof, of all the elements proposed for demolition, including removal single element with temporary shoring if necessary, removal and classification of debris and waste, for subsequent transport to the authorised outlet, all necessary work, materials and equipment.	a.w	1.0	0.00 €	0.00 €	
2.	Execution of all necessary survey work/ disassembly of water installations and equipment, existing sewers, electric, telephone, etc., including loading, carriage to and unloading of all cargoes materials.	a.w	1.0	0.00 €	0.00 €	
3.	Demolition of existing brick walls, according to demolition plan, including removal of products from demolition, to dumping ground, to any distance	m2	473.6	0.00 €	0.00 €	
4.	Demolition of existing indoor and outdoor doors and windows according to demolition plan, including removal of products from demolition, to dumping ground, to any distance.	a.w	1.0	0.00 €	0.00 €	
5.	Execution of demolition of existing indoor floors of ceramic tiles, for subsequent application of new coatings including removal of products from demolition, to dumping ground, at any distance.	a.w	1.0	0.00 €	0.00 €	
6.	Execution of removal of existing bathroom fittings, including removal of products from demolition, to dumping ground, at any distance.	a.w	1.0	0.00 €	0.00 €	
	<b>CHAPTER C - GENERAL CIVIL AND INFRASTRUCTURE CONSTRUCTION</b>					<b>0.00 €</b>
1.	WALLS					
1.1	Exterior Walls					
1.1.1	P1 -nominated on the project as Skin Wall; 20cm thick fair faced brick wall	m2	362.6	0.00 €	0.00 €	
1.	WALLS					
1.1	Exterior Walls					
1.1.2	P2- 20cm thick regular Kassala brick both sides plastered and panted (please see detail on sheet A.05.02)	m2	215.8	0.00 €	0.00 €	
1.2	Interior Walls					
1.2.1	P3-15cm internal partition regular Kassala brick wall both sides plastered and panted. (please see detail on sheet A.05.02)	m2	498.7	0.00 €	0.00 €	
1.2.2	P4-20cm thick internal partition regular Kassala brick one side plastered and otherside tiling. (please see detail on sheet A.05.02)	m2	158.0	0.00 €	0.00 €	
1.2.3	P5- 11 cm brick double plastered (please see detail on sheet A.05.02)	m2	n/a			
1.2.4	P6- 15cm brick double plastered (please see detail on sheet A.05.02)	m2	n/a			
1.2.5	P7- 20cm brick double plastered (please see detail on sheet A.05.02)	m2	n.a			
2.	FENCE					
2.1	Proposed/nominated on the project as Skin Wall; with baked terracota pieces (please see sheet number: A.05.03- Constructive Details,Walls Fence)	m/l	n.a			
2.2	Future Expansion: nominated on the project as Skin Wall; with baked terracota pieces (please see sheet number: A.05.03- Constructive Details,Walls Fence)	m/l	n.a			
3.	COATINGS					
3.1	Coatings Interior Walls					
3.2.1	W2- 0.3x0.2m x 5mm white ceramic tiles till 2.10m height	m2	131.6	0.00 €	0.00 €	
3.2	Coatings Interior Flooring					
3.2.1	F2- 0.30x0.30m x 8.5mm for wet areas ,Anti-slip, Coloured to the approval of Architects/Engineers	m2	186.0	0.00 €	0.00 €	
3.2.2	F2- Baseboard	m/l	n.a			
3.2.3	F3- 0.60x0.60m Porcelanic tiles, Anti-slip, Coloured to the approval of Architects/Engineers	m2	326.0	0.00 €	0.00 €	
3.2.4	F3- Baseboard	m/l	545.0	0.00 €	0.00 €	
3.2.5	F4- 0.60x0.60m Porcelanic tiles, Grey colored	m2	n.a			
3.2.6	F4- Baseboard	m/l	n.a			
3.2.7	F5-0.60x0.60m Porcelanic tiles, Yellow colored	m2	n.a			
3.2.8	F5- Baseboard	m/l	n.a			
3.	COATINGS					
3.2	Coatings Interior Flooring					
3.2.9	F6-0.60x0.60m Porcelanic tiles, Purple colored	m2	n.a			
3.2.10	F6- Baseboard	m/l	n.a			
3.2.11	F7-0.60x0.60m Porcelanic tiles, Blue colored	m2	n/a			

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3.2.12	F7- Baseboard	m/l	n/a			
3.2.13	F8-0.60x0.60m Porcelanic tiles, Blue colored	m2	n/a			
3.2.14	F8- Baseboard	m/l	n/a			
3.3	Exterior Paving					
3.3.1	F1 - 10cm thick concrete paving laid on 25cm thick compacted gravel/hardcore	m2	145.0	0.00 €	0.00 €	
4.	CEILINGS					
4.1	Interior Ceilings					
4.1.2	C3-Supply and execution of suspended interior ceiling: waterproofing plasterboard with mineral insulation including transport, unloading, support structure, backstrips, bars and reinforcements, relapses, opening of negatives for lighting, all complementary materials, works and accessories	m2	n/a			
4.2	Painted Ceilings					
4.2.1	C1- Washable acrylic white paint on existing and plasterboard ceilings (RAL 9010)	m2	538.3	0.00 €	0.00 €	
4.2.2	C2-Washable acrylic concrete grey paint on existing ceilings (RAL 7023)	m2	162.8	0.00 €	0.00 €	
5.	INTERIOR PAVING					
5.1	Floor levelling with screed levelling before the appllyance of new coatings	m2	475.0	0.00 €	0.00 €	
6.	PAINTINGS					
6.1	Exterior Paintings					
6.1.1	E2- "terracota" acrylic paint (RAL colour 2013)	m2	586.4	0.00 €	0.00 €	
6.1.2	E3 -"concrete grey" acrylic paint (RAL colour 7023)	m2	188.3	0.00 €	0.00 €	
6.1.3	E4-"pure white" poliuretane paint for metallic structure (RAL colour 9010)	m2	76.4	0.00 €	0.00 €	
6.2	Interior Paintings					
6.2.1	W1-Washable acrylic white paint	m2	1,422.7	0.00 €	0.00 €	
7.	WOODWORK					
7.1	A1:MDF 20mm WITH HPL; 3.40 x 0.70 x 1.10m	un	n.a			
7.2	A2:MDF 20mm WITH HPL; 1.20 x 0.70 x 1.10m	un	n.a			
7.3	A3:MDF 20mm WITH HPL; 1.10 x 0.70 x 1.10m)+(2.50 x 0.70 x 1.10m)	un	n.a			
7.4	A4:MDF 20mm WITH HPL; 2.10 x 0.70 x 1.10m	un	1.0	0.00 €	0.00 €	
7.5	A5: MDF 20mm WITH HPL; 2.55 x 0.70 x 1.10m	un	1.0	0.00 €	0.00 €	
7.8	B2: MDF 20mm WITH HPL; 2.15 x 0.60 x 0.90m	un	n.a			
7.9	A3:MDF 20mm WITH HPL; 2.5 x 0.70 x 1.10m)+(1.10 x 0.70 x 1.10m)	un	n.a			
7.	WOODWORK					
7.10	B2: MDF 20mm WITH HPL; 2.15 x 0.35 x 0.60m	un	n.a			
7.11	B3: MDF 20mm WITH HPL; 1.90 x 0.60 x 0.90m	un	n.a			
7.12	B3:MDF 20mm WITH HPL; 1.90 x 0.35 x 0.60m	un	n.a			
7.13	B4: MDF 20mm WITH HPL; 2.55 x 0.60 x 0.90m	un	1.0	0.00 €	0.00 €	
7.14	B4: MDF 20mm WITH HPL; 2.55 x 0.35 x 0.60m	un	1.0	0.00 €	0.00 €	
7.15	B5: MDF 20mm WITH HPL; 1.80 x 0.60 x 0.90m	un	2.0	0.00 €	0.00 €	
7.16	B6: MDF 20mm WITH HPL; 1.50 x 0.60 x 0.90m	un	n.a			
7.17	C1: MDF 30mm WITH HPL; 1.65 x 0.60 x 0.75m	un	n.a			
7.18	C2: MDF 30mm WITH HPL; 1.70 x 0.60 x 0.75m	un	n.a			
7.19	C3: MDF 30mm WITH HPL; 2.20 x 0.60 x 0.75m	un	n.a			
7.20	C4:MDF 30mm WITH HPL; 2.40 x 0.60 x 0.75m	un	n.a			
7.21	C5: MDF 30mm WITH HPL; 2.10 x 0.60 x 0.75m	un	1.0	0.00 €	0.00 €	
7.22	C6: MDF 30mm WITH HPL; 1.90 x 0.60 x 0.75m	un	n.a			
7.23	D1: MDF 50mm WITH HPL; 4.95 x 0.70 x 0.75m	un	n.a			
7.24	D2: MDF 50mm WITH HPL; 1.70 x 0.70 x 0.75m	un	n.a			
8.	DOORS					
8.1	Exterior Doors					
8.1.1	G.1- Double swing gate with fixed lateral sashes / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047" (dim. 4.22x2.10m). All accessories included.	un	1.0	0.00 €	0.00 €	
8.1.2	G.2- Double swing gate with fixed lateral sashes / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047" (dim. 2.40x2.10m). All accessories included.	un	n.a			
8.1.3	G.3- Single swing gate with 1 fixed lateral sash / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047"(dim. 1.62x2.10m). All accessories included.	un	n.a			
8.1.4	G.4- Double swing gate / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047"(dim. 1.65x2.10m). All accessories included.	un	n.a			
8.1.5	G.5- Double swing gate with fixed lateral sashes / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047"(dim. 3.54x2.10m). All accessories included.	un	1.00	0.00 €	0.00 €	
8.1.6	G.6- Single swing gate with 1 fixed lateral sash / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047"(dim. 2.00x2.10m). All accessories included.	un	1.00	0.00 €	0.00 €	
8.1.7	G.8- Single swing gate with 1 fixed lateral sash / tubular galvanized steel gate / polyester thermosetting powder coating in "light grey RAL 7047"(dim. 1.50x2.10m). All accessories included.	un	n.a			
8.2	Interior Doors					
8.2.1	D1 (0.70x2.10m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	n.a			
8.2.2	D2 (0.80x2.10m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	10.00	0.00 €	0.00 €	

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8.2.3	D3 (0.90x2.10m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	9.00	0.00 €	0.00 €	
8.2.4	D4 (0.80x2.70m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	n.a			
8.2.5	D5 (0.85x2.70m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	n.a			
8.2.6	D6 (0.85x2.70m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	n.a			
8.2.7	D7 (1.10mx2.70m) - Single swing door - supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	n.a			
8.2.8	D.8 (1.60mx2.70m) - Double swing door supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	1.00	0.00 €	0.00 €	
8.2.9	D.9- Hermec sliding door / Hermetic system class 4, according UNI EN 12207 "Grupsa HS-201" / sheet of stainless steel (dim. 1,40x2,10m). No handle, automatic opening system. All accessories included.	un	n.a			
8.2.10	D.10- Single swing door (1.0mx 3.10m) supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	5.00	0.00 €	0.00 €	
8.2.11	D.11- Double swing door (1.50m x 3.10m) supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	2.00	0.00 €	0.00 €	
8.2.12	D.12- Double swing door (1.60m x 3.10m) supply and fix mat anodized aluminum windows and doors made of extruded profiles of standard UNI 3870 - ICS 77.140.90 and film thickness 15-25micro meter. Aluminum profiles and colour to be approved by the Architect . Handle in U-shaped latch and key, in stainless steel. All accessories included.	un	1.00	0.00 €	0.00 €	
8.3	Technical cabinets					
8.3.1	TC.1- Technical cabinet with double swing door / HDF / thermal laminate HPL white " RAL 9010" (dim. 1,20x2,10). With key / no handle. All accessories included.	un	n.a			
8.3.2	TC.2- Technical cabinet with double swing door / galvanized steel/ painted "light grey RAL 7047" (dim. 1,20x2,10). With key / no handle. All accessories included.	un	3.00	0.00 €	0.00 €	
8.3.3	TC.3- Technical cabinet with single door / HDF/ thermal laminate HPL "white RAL 9010" (dim. 0,60x2,10). With key / no handle. All accessories included.	un	n.a			
8.3.4	TC.4- Technical cabinet with double swing door / galvanized steel/ painted "light grey RAL 7047" (dim. 1,60x2,10). With key / no handle. All accessories included.	un	n.a			
8.3.5	TC.5- Technical cabinet with double swing door /HDF/thermolaminated "RAL 9010" (dim 1,60x2,10m) With key / no handle. All accessories included.	un	n.a			
9.	WINDOWS					
9.1	Interior Windows					
9.1.1	W.1- Slide and fixed window sashes / Anodized aluminium / Laminated 5+ 5mm clear glass (dim. 3,00x1,20). All accessories included.	un	n.a			
9.1.2	W.2- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 2,25x1,50m). All accessories included.	un	n.a			
9.1.3	W.3- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 1,00x1,40m). All accessories included.	un	5.00	0.00 €	0.00 €	
9.1.4	W.4- Boom hung window sash / Anodized aluminium / Laminated 5+5mm clear glass (dim. 0,60x1,50m). All accessories included.	un	n.a			
9.1.5	W.5- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 1,50x2,00m). All accessories included.	un	n.a			
9.1.6	W.6- Boom hung window sash / Anodized aluminium / Laminated 5+5mm clear glass (dim. 0,75x1,50m). All accessories included.	un	2.00	0.00 €	0.00 €	
9.1.7	W.7- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 1,50x1,50m). All accessories included.	un	2.00	0.00 €	0.00 €	
9.1.8	W.8- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 1,50x1,50m). All accessories included.	un	13.00	0.00 €	0.00 €	
9.1.9	W.9- Slide window sashes / Anodized aluminium / Laminated 5+5mm clear glass (dim. 1,00x1,36m). All accessories included.	un	n.a			

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	<b>BOQ - BILL OF QUANTITY - ARCHITECTURE</b>					
9.1.10	W.10- Fixed interior window / Anodized aluminium frame / Laminated 5+5mm clear glass (dim. 1,20x1,10m). All accessories included.	un	n.a			
9.1.11	W.11- Fixed interior window / Anodized aluminium frame / Laminated 5+5mm clear glass (dim. 2,20x1,10m). All accessories included.	un	n.a			
9.1.12	W.12- Slide window shashes / Anodized aluminium frame / Laminated 5+5mm clear glass (dim. 1,40x1,50m). All accessories included.	un	n.a			
9.1.13	W.13- Bottom hung window sash / Anodized aluminium frame / Laminated 5+5mm clear glass (dim. 0,75x1,20m). All accessories included.	un	9.00	0.00 €	0.00 €	
9.2	Shadding					
9.2.1	S.1- Existing shutters to be relocated in the west and south exposed windows (dim. 1.50x1,20m). All accessories included.	un	2.00	0.00 €	0.00 €	
9.3	Window Sill					
9.3.1	Existing Pre-fabricated concrete window sill (same width as the window) to be relocated	un	8.00	0.00 €	0.00 €	
10.	CANOPY					
10.1	Sandwich Roof Panels					
10.1.1	5 Ribs profiled outer sheet, exterior coating in white paint with good UV resistance (RAL 9010), core in Mineral wool with 80 mm thickness , interior coating: polymer coating resistant to mould (RAL 9010), Fire performance according to TS EN 13501-1,A2-s1	m2	55.47	0.00 €	0.00 €	
10.2	Downspouts					
10.2.1	Metal downspouts painted in white with good UV resistance (RAL 9010) all joints and connections included	m/l	25.60	0.00 €	0.00 €	
10.3	Gutters					
10.3.1	White Aluminium gutters, all joints included. Cover of the gutter with a lacquered (RAL 9010) metallic sheet with 48 cm high (please see detail on A.05,02 Walls and Gutters) held in place with metal clamps.	m/l	n.a			
11.	VARIOUS					
11.1	Supply and placement of break-proof mirrors placed complanarly with the tile, including transportation, discharge, fixing accessories, tapes and all materials and complementary accessories. Mirror: 1,2m height with variable lenght	m2	4.32	0.00 €	0.00 €	
11.2	750mm length x 30mm thick marble coping at connection between skin wall and existing parapet wall	ml	62.00	0.00 €	0.00 €	
11.3	3mm thick metal louver to be provided at the skin wall to cover up the existing windows.	m2	12.00	0.00 €	0.00 €	
<b>CHAPTER D - INSTALATION AND EQUIPMENT OF WATER AND SEWAGE SYSTEM</b>						<b>0.00 €</b>
1.	<b>SANITARY EQUIPMENT</b>					
1.1	Supply and laying of ceramic sanitary ware white glazed including transport, unloading, fastenings and connections, seals and all complementary materials, works and accessories	a.w	1.00	0.00 €	0.00 €	
1.2	Standing European Toilets in ware white glazed, including water tank	un	8.00	0.00 €	0.00 €	
1.3	Standing Disabled Toilets in ware white glazed, including elevated water tank	un	n.a			
1.4	Disabled Toilets Bars kit in stainless steel	un	n.a			
1.5	Supply and fix R.A.K. or Equivalent, white glazed vitreous china floor mounting type S trap water closet (WC) with solid white plastic seat and lid,chrome plated brass hinges and rubber buffers with white vitreous china 3/6 dual flush coupled cistern including required fittings, ablation wash fittings and accessories etc. complete in all respects. Flexible hose to be REMER or Equivalent and should be capable of resisting pressure of 4 bar.	un	6.00	0.00 €	0.00 €	
1.6	Basin in ceramic white glazed. dimensions: 450mm*350mm*200mm	un	n.a			
1.7	Basin in ceramic white glazed. dimensions: 600mm*450mm*200mm	un	8.00	0.00 €	0.00 €	
1.8	Shower Kit with mixer tap in ABS plastic, including all fixings,suports and sealants needed to complete shower installation	un	6.00	0.00 €	0.00 €	
1.9	Drain in stainless steel	un	6.00	0.00 €	0.00 €	
1.10	Scrub Basin in stainless steel, 1 basin, dimensions: 1000mmx700mmx200mm	un	n.a			
1.11	CSSD Basin in stainless steel. Dimensions: 450mmx450mmx200mm	un	n.a			
1.12	Soiled Tray in ceramic with stainless steel grid. Dimensions: 500mmx500mmx350mm	un	1.00	0.00 €	0.00 €	
1.13	Wall mounted single tap, brass chrome	un	8.00	0.00 €	0.00 €	
1.14	Wall mounted single tap with medical elbow action, brass chrome	un	n.a			
1.15	Wall mounted single tap with pull out spray, brass chrome	un	n.a			
<b>CHAPTER E - LANDSCAPING</b>						
10.1	<b>Paving</b>					
10.1.1	EF1-Resistent concrete pieces above a compacted pavement (vehicle road)	m2	n.a			
10.1.2	EF2-Concrete pieces (pedestrian sidewalk)	m2	n.a			
10.1.3	EF3-Compacted gravel	m2	n.a			
10.1.4	EF4-Earth and humus to plant resistant type grass	m2	n.a			
10.1.5	Smoothed concrete floor with a siloxane sealer (exterior corridor)	m2	n.a			
10.2	Forestation					
10.2.1	New trees (local species to be defined)	un	n.a			
10.2.1	New bushes (local species to be defined)	m/l	n.a			

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	<b>BOQ - BILL OF QUANTITY - STRUCTURE</b>					
<b>3</b>	<b>STRUCTURE</b>					<b>0.00 €</b>
<b>3.1</b>	<b>BLOCK J &amp; M</b>					<b>0.00 €</b>
	<b>SUB-STRUCTURE</b>					
<b>3.1.1</b>	<b>EARTH-WORKS</b>					
3.1.1.1	<b>Excavation</b>					
3.1.1.1.1	Excavation on land of any nature in order to obtain project levels, including loading and transport of surplus material to the dump, eventual bracing, pumping of the tributary water to the excavation, regularization of the bottom of the box and replacement of land whenever necessary, all executed in order to obtain the levels indicated in the design.	m3	154.37	0.00 €	0.00 €	
3.1.1.2	<b>Excavation for foundations</b>					
3.1.1.2.1	Excavation on land of any nature for the implementation of foundations elements, including loading and transport of surplus material to the dump, eventual bracing, pumping of the tributary water to the excavation, regularization of the bottom of the box and replacement of land whenever necessary, all executed in order to obtain the levels indicated in the design.	m3	167.51	0.00 €	0.00 €	
<b>3.1.2</b>	<b>CONCRETE</b>					
3.1.2.1	<b>Blinding concrete</b>					
3.1.2.1.1	Concrete C16/20, for regularization of foudation well, including supply, transport, placement, compaction and curing, according to the design.	m3	5.58	0.00 €	0.00 €	
3.1.2.1.2	Concrete C16/20, for ground slab, including supply, transport, placement, compaction and curing, according to the design.	m3	11.72	0.00 €	0.00 €	
	Note: For the quantification of the concrete in foundation pits (and the respective excavation) it was considered that the soil with the appropriate characteristics to support the projected structures is 3m deep, measured in relation to the level of the pavement. This assumption must be verified on site.					
<b>3.1.3</b>	<b>REINFORCED CONCRETE</b>					
	<b>Pricing notes:</b>					
	A) The costs of Concrete shall include making, storing and testing of concrete test cubes as required and providing cube moulds necessary for the purpose and for submitting reports of the tests to the Engineer.					
	B) Price for concrete shall include placing concrete by whatever means,for vibrating with mechanical vibrators. Formwork and reinforcement shall be measured separately unless otherwise described.					
3.1.3.1	<b>FOUNDATIONS</b>					
3.1.3.1.1	Reinforced concrete in ground beam					
	Standard grey concrete C25/30, including supply, transport, placement, compaction, curing and incorporation of water-repellent, according to the design. Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap and laying, according to the design. Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.(formwork and reinforcement measured separately).	m3	14.89	0.00 €	0.00 €	
<b>3.1.4</b>	<b>SLABS</b>					
3.1.4.1	Ground Floor Slab					
	Ground floor consisting of a concrete slab C25/30 0.10m thick, including surface hardener, top and bottom welded reinforcement mesh, PVC membrane with 0.12mm thick, concrete slab C16/20, 0.05m thick, crushed material densely packed with 0.30m thickness, regularization and compacting of the existing ground, supply, transport, laying and all the necessary complementary work, all executed according to the design.	m2	234.35	0.00 €	0.00 €	
<b>3.1.5</b>	<b>FORMWORK</b>					
3.1.5.1	Formwork to ground beam					
	Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.	m2	74.45	0.00 €	0.00 €	
<b>3.1.6</b>	<b>REINFORCEMENT</b>					
3.1.6.1	Reinforcement bar to sub-structures					
	Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap, laying and tying wires, according to the design.					
3.1.6.1.1	Diam 12mm Deformed bar.	kg	907.76	0.00 €	0.00 €	
3.1.6.1.2	Diam 8mm Deformed bar.	kg	1,406.95	0.00 €	0.00 €	
<b>3.1.7</b>	<b>WATERPROOFING</b>					
3.1.7.1	Waterproofing type system					
	Impermeability of the elements buried in contact with the ground, with application of bituminous paint in two coats, including supply, transport and placement, folds, overlaps, finishes and losses, all executed according to the project.	m2	74.45	0.00 €	0.00 €	
<b>3.1.8</b>	<b>MASONRY WORK</b>					
3.1.8.1	Basaltic or equivalent stone masonry foundation wall bedded in cement sand mortar (1:4) below NGL..	m2	111.67	0.00 €	0.00 €	
	<b>SUPER-STRUCTURE</b>					
<b>3.1.9</b>	<b>REINFORCED CONCRETE</b>					
	<b>Pricing notes:</b>					
	A) The costs of Concrete shall include making, storing and testing of concrete test cubes as required and providing cube moulds necessary for the purpose and for submitting reports of the tests to the Engineer.					

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - STRUCTURE</b>					
	<b>B) Price for concrete shall include placing concrete by whatever means,for vibrating with mechanical vibrators. Formwork and reinforcement shall be measured separately unless otherwise described.</b>					
3.1.9.1	<b>ELEVATION COLUMN</b>					
3.1.9.1.1	Reinforced concrete in elevation column					
	Standard grey concrete C25/30, including supply, transport, placement, compaction, curing and incorporation of water-repellent, according to the design. Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap and laying, according to the design. Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.(formwork and reinforcement measured separately).	m3	3.71	0.00 €	0.00 €	
3.1.9.2	<b>ROOF BEAMS</b>					
3.1.9.2.1	Reinforced concrete in roof beam					
	Standard grey concrete C25/30, including supply, transport, placement, compaction, curing and incorporation of water-repellent, according to the design. Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap and laying, according to the design. Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.(formwork and reinforcement measured separately).	m3	9.99	0.00 €	0.00 €	
3.1.9.3	<b>ROOF SLABS</b>					
3.1.9.3.1	Reinforced concrete in roof slab					
	Standard grey concrete C25/30, including supply, transport, placement, compaction, curing and incorporation of water-repellent, according to the design. Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap and laying, according to the design. Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.(formwork and reinforcement measured separately).	m3	25.30	0.00 €	0.00 €	
3.1.10	<b>FORMWORK</b>					
3.1.10.1	<b>ELEVATION COLUMN</b>					
3.1.10.1.1	Formwork to elevation column					
	Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.	m2	74.24	0.00 €	0.00 €	
3.1.10.2	<b>ROOF BEAMS</b>					
3.1.10.2.1	Formwork to roof beam					
	Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.	m2	116.90	0.00 €	0.00 €	
3.1.10.3	<b>ROOF SLABS</b>					
3.1.10.3.1	Formwork to roof slab					
	Formwork for concrete, in metal or wood molds, without defects, including transport, shoring, oil extraction and subsequent disassembly, according to the design.	m2	126.50	0.00 €	0.00 €	
3.1.11	<b>REINFORCEMENT</b>					
3.1.11.1	Reinforcement bar to sub-structures					
	Reinforcement in A500 steel, including supply, transport, folding, cutting, assembly, anchorages, splicing, scrap, laying and tying wires, according to the design.					
3.1.11.1.1	Diam 16mm Deformed bar.	kg	454.89	0.00 €	0.00 €	
3.1.11.1.2	Diam 12mm Deformed bar.	kg	1,726.34	0.00 €	0.00 €	
3.1.11.1.3	Diam 10mm Deformed bar.	kg	1,438.95	0.00 €	0.00 €	
3.1.11.1.4	Diam 8mm Deformed bar.	kg	430.87	0.00 €	0.00 €	
3.1.12	<b>STEEL STRUCTURE</b>					
3.1.12.1	Structure in Steel Profiles					
	Steel structure in S275 JR/JRH resistance steel profiles, including in the unit price the cost of the following works: supply, transport, assembly, welding and / or screw connections, plates, reinforcements, supports, waste, anchors, screws, nut, washers, connectors, bars, anchors, welds, holes, chemical sealing, mortar, scraping, anti-corrosion and any additional work required, according to the project.					
3.1.12.1.1	SHS 60x60x3mm	kg	670.8	0.00 €	0.00 €	
3.1.12.1.2	SHS 40x40x3mm	kg	261.5	0.00 €	0.00 €	
3.1.12.1.3	RHS 80x40x3mm	kg	2,995.8	0.00 €	0.00 €	
3.1.12.1.4	Plate size 200x300x6mm	pcs	32.0	0.00 €	0.00 €	
3.1.12.1.5	Plate size 142x300x40X5mm	pcs	8.0	0.00 €	0.00 €	
3.1.12.1.6	Plate size 200x120x6mm for splicing	pcs	16.0	0.00 €	0.00 €	
3.1.12.1.7	M16 "J" bolt (DL=300mm)	pcs	64.0	0.00 €	0.00 €	
	<b>Important Notes:</b>					
	1) The measures to determine quantities relating earth-works, were obtained from the geometric shapes defined in the design. No blistering, overcrowing, slopes or work platforms were considered. These costs should be included in the unit price of the excavation presented by the contractor.					
	2) Prior the start of the excavation, the contractor must certify whether or not plant network, such as water, sanitation, gas, electrical and telephone installations and provision of their protection or diversion, must be reflected in the unit price of the excavation presented by the contractor.					
	3) The measures to determinate the quantities of reinforced concrete were obtained from geometric shapes defined in the design.					
	4) The measurements of steel does not consider anchorages, overlays, hooks, scrap and accessories. These costs must be included in the unit price per kg submitted by the contractor.					
	5) In order to obtain all the characteristics of the materials, including concrete and steel, should be consulted the drawing of Table Frame of Materials and General Notes.					

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - ELECTRICITY</b>					
<b>8</b>	<b>ELECTRICAL INSTALLATIONS</b>					<b>0.00 €</b>
<b>8.1</b>	<b>BLOCK J</b>					<b>0.00 €</b>
	The Bill of Quantities, Specifications, Drawings and all other Contract documents are complementary to each other. It is the responsibility of the Contractor to check the locations and quantities of the materials and equipment to be executed in accordance with the drawings. The unit rate of the materials and equipment shall be based on the Specification, all components as required and specified under each item concerned in the Specifications, Drawings, and all other Contract documents.					
<b>8.1.1</b>	<b>Low Voltage Switchboard</b>					
8.1.1.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.1.2	Normal / Standby Switchboards:					
8.1.1.2.1	- S.J.0 (E)	Un	1	0.00 €	0.00 €	
8.1.1.2.2	- S.J.1 (E)	Un	1	0.00 €	0.00 €	
8.1.1.2.3	- S.J.2 (E)	Un	1	0.00 €	0.00 €	
8.1.1.2.4	- S.J.3 (E)	Un	1	0.00 €	0.00 €	
8.1.1.2.5	- S.J.4 (E)	Un	1	0.00 €	0.00 €	
8.1.1.2.6	- S.J.5 (E)	Un	1	0.00 €	0.00 €	
8.1.1.3	Uninterrupted Switchboards:					
8.1.1.3.1	- S.J.ICU (IT)	Un	1	0.00 €	0.00 €	
8.1.1.4	Tertiary Power Supply					
8.1.1.4.1	- UPS System with a rated power of the 8kVA 1/1 (60min Autonomy), single-phase, on-line double conversion architecture, run through the Inverter, VFI.	Un	1	0.00 €	0.00 €	
8.1.1.5	Safety Isolating Transformers - Medical IT Systems:					
8.1.1.5.1	- Dry type isolation transformers, 230 V / 230 V, IP23, 5KVA equipped with thermal sensors and load supervisor, complete with all necessary accessories.	Un	1	0.00 €	0.00 €	
8.1.1.5.3	- Permanent electrical insulating monitors	Un	1	0.00 €	0.00 €	
8.1.1.5.4	- Permanent electrical insulating repeaters	Un	1	0.00 €	0.00 €	
<b>8.1.2</b>	<b>Cabling</b>					
8.1.2.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.2.2	LV Distribution Cables (Indoor):					
8.1.2.2.1	- 5G16 mm² Cu/ XLPE/ PVC	ml	2	0.00 €	0.00 €	
8.1.2.2.2	- 3G16 mm² Cu/ XLPE/ PVC	ml	14	0.00 €	0.00 €	
8.1.2.2.3	- 5G6 mm² Cu/ XLPE/ PVC	ml	34	0.00 €	0.00 €	
8.1.2.2.4	- 5G4 mm² Cu/ XLPE/ PVC	ml	142	0.00 €	0.00 €	
<b>8.1.3</b>	<b>Lighting</b>					
8.1.3.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.3.2	Indoor Lighting:					
8.1.3.2.1	Luminaires:					
8.1.3.2.1.1	- L2	Un	13	0.00 €	0.00 €	
8.1.3.2.1.2	- L3.1	Un	5	0.00 €	0.00 €	
8.1.3.2.1.3	- L3.2	Un	11	0.00 €	0.00 €	
8.1.3.2.1.4	- L6	Un	9	0.00 €	0.00 €	
8.1.3.2.1.5	- L9.0	Un	7	0.00 €	0.00 €	
8.1.3.2.1.6	- L9.1	Un	12	0.00 €	0.00 €	
8.1.3.2.1.7	- L9.2	Un	5	0.00 €	0.00 €	
8.1.3.2.1.8	- L15.1	Un	2	0.00 €	0.00 €	
8.1.3.2.1.9	- L15.2	Un	3	0.00 €	0.00 €	
8.1.3.2.1.10	- L18.2	Un	2	0.00 €	0.00 €	
8.1.3.2.1.11	- L18.3	Un	2	0.00 €	0.00 €	
8.1.3.2.1.12	- L18.4	Un	4	0.00 €	0.00 €	
9.1.3.3	Outdoor Lighting:					
9.1.3.3.1	Luminaires:					
9.1.3.3.1.1	- E1	Un	8	0.00 €	0.00 €	
8.1.3.4	Lighting Command Devices					
8.1.3.4.1	- One way switch, surface mounting	Un	10	0.00 €	0.00 €	
8.1.3.4.2	- Double pole switch, surface mounting	Un	5	0.00 €	0.00 €	
8.1.3.4.3	- Two way switch, surface mounting	Un	4	0.00 €	0.00 €	
8.1.3.4.4	- One way switch, flush mounting head wall unit	Un	8	0.00 €	0.00 €	
8.1.3.4.5	- Surface Mounting Detector 180°	Un	8	0.00 €	0.00 €	
8.1.3.4.6	- Surface Mounting Movement Detector 360°	Un	5	0.00 €	0.00 €	
8.1.3.4.7	- Surface Mounting Presence Detector 360°	Un	4	0.00 €	0.00 €	
8.1.3.5	Flush and surface Mounting Boxes:					
8.1.3.5.1	- Flush and surface Mounting Boxes:	Un	63	0.00 €	0.00 €	
8.1.3.6	Electrical cables:					
8.1.3.6.1	Enclosed in a recessed or surface conduiting:					
8.1.3.6.1.1	- 2x 1,5 mm² Cu/ XLPE/ LSZH	ml	121	0.00 €	0.00 €	
8.1.3.6.1.2	- 3x 1,5 mm² Cu/ XLPE/ LSZH	ml	75	0.00 €	0.00 €	
8.1.3.6.1.3	- 3G 1,5 mm² Cu/ XLPE/ LSZH	ml	420	0.00 €	0.00 €	
8.1.3.6.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
8.1.3.6.2.1	- 3x 1,5 mm² Cu/ XLPE/ LSZH	ml	58	0.00 €	0.00 €	
8.1.3.6.2.2	- 3G 1,5 mm² Cu/ XLPE/ LSZH	ml	273	0.00 €	0.00 €	
8.1.3.7	Metric Rigid Conduit:					
8.1.3.7.1	Enclosed in a recessed or surface conduiting:					
8.1.3.7.1.1	- PEAD Ø 20 mm	ml	615	0.00 €	0.00 €	



CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - ELECTRICITY</b>					
<b>8.1.4</b>	<b>Emergency / Safety Lighting</b>					
8.1.4.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.4.2	Indoor Lighting:					
8.1.4.2.1	- S1 - maintained (60min Autonomy)	Un	7	0.00 €	0.00 €	
8.1.4.2.2	- S1 - not maintained (60min Autonomy)	Un	10	0.00 €	0.00 €	
8.1.4.2.3	- S3 - not maintained (60min Autonomy)	Un	2	0.00 €	0.00 €	
8.1.4.3	Flush and surface Mounting Boxes:					
8.1.4.3.1	- Surface or Recessed mounting Connection Box	Un	16	0.00 €	0.00 €	
8.1.4.4	Electrical cables:					
8.1.4.4.1	Enclosed in a recessed or surface conduiting:					
8.1.4.4.1.1	- 3G 1.5 mm² Cu/ XLPE/ LSZH	ml	24	0.00 €	0.00 €	
8.1.4.4.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
8.1.4.4.2.1	- 3G 1.5 mm² Cu/ XLPE/ LSZH	ml	69	0.00 €	0.00 €	
8.1.4.5	Metric Rigid Conduit:					
8.1.4.5.1	Enclosed in a recessed or surface conduiting:					
8.1.4.5.1.1	- PVC Ø 20 mm	ml	24	0.00 €	0.00 €	
<b>8.1.5</b>	<b>General Purpose Power Outlet</b>					
8.1.5.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.5.2	Single Flush and Surface Mounting Devices - Normal/Standby Supply:					
8.1.5.2.1	- Surface Mounting Earthed Socket (BS Type) - 16A with cover IP44	Un	9	0.00 €	0.00 €	
8.1.5.2.2	- Surface mounting earth Socket (BS Type) - 16A IP44	Un	44	0.00 €	0.00 €	
8.1.5.3	Double Flush and Surface Mounting Devices - Normal/Standby Supply:					
8.1.5.3.1	- Surface Mounting Earthed Socket (BS Type) - 16A IP44	Un	3	0.00 €	0.00 €	
8.1.5.3.2	- Flush Mounting Earthed Socket (BS Type) - 16A trunking	Un	2	0.00 €	0.00 €	
8.1.5.4	Triple Flush and Surface Mounting Devices - Normal/Standby Supply:					
8.1.5.4.1	- Flush Mounting Earthed Socket (BS Type) - 16A head wall unit	Un	12	0.00 €	0.00 €	
8.1.5.5	Double Flush and Surface Mounting Devices - Uninterruptible Supply:					
8.1.5.5.1	- Flush Mounting Earthed Socket (BS Type) - 16A head wall unit	Un	8	0.00 €	0.00 €	
8.1.5.8	Flush and surface Mounting Boxes:					
8.1.5.8.1	- Surface or Recessed mounting Connection Box	Un	78	0.00 €	0.00 €	
8.1.5.8.2	- Surface or Recessed mounting Terminal Box	Un	20	0.00 €	0.00 €	
8.1.5.9	Electrical cables:					
8.1.5.9.1	Enclosed in a recessed or surface conduiting:					
8.1.5.9.1.1	- 3G 2.5 mm² Cu/ XLPE/ LSZH	ml	767	0.00 €	0.00 €	
8.1.5.9.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
8.1.5.9.2.1	- 3G 2.5 mm² Cu/ XLPE/ LSZH	ml	346	0.00 €	0.00 €	
8.1.5.9.2.2	- 5G 2.5 mm² Cu/ XLPE/ LSZH	ml	53	0.00 €	0.00 €	
8.1.5.10	Metric Rigid Conduit:					
8.1.5.10.1	Enclosed in a recessed or surface conduiting:					
8.1.5.10.1.1	- PVC Ø 20 mm	ml	767	0.00 €	0.00 €	
<b>8.1.6</b>	<b>Cable tray, Trunking System and Conduits</b>					
8.1.6.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
8.1.6.2	Metalic perforated cable tray of side height 60 mm:					
8.1.6.2.1	Electrical Instalation:					
8.1.6.2.1.1	- 400 width, strip-galvanised	ml	28	0.00 €	0.00 €	
8.1.6.2.1.2	- 200 width, strip-galvanised	ml	18	0.00 €	0.00 €	
8.1.6.2.1.3	- 100 width, strip-galvanised	ml	50	0.00 €	0.00 €	
8.1.6.2.2	ICT Instalation:					
8.1.6.2.2.1	- 200 width, strip-galvanised	ml	30	0.00 €	0.00 €	
8.1.6.2.2.2	- 100 width, strip-galvanised	ml	27	0.00 €	0.00 €	
8.1.6.3	Distribution Cable-Trunkings:					
8.1.6.3.1	- Cable-Trunkings, with 110x50mm	ml	5	0.00 €	0.00 €	
8.1.6.4	Head wall unit: (complete with all the materials and accessories necessary to the correct execution of the task)					
8.1.6.4.1	- HW 1 - UCI - 1,5m	Un	8	0.00 €	0.00 €	
8.1.6.5	Metric Rigid Conduit:					
8.1.6.5.1	Enclosed in a recessed or surface conduiting:					
8.1.6.5.1.1	- PVC Ø 25 mm	ml	36	0.00 €	0.00 €	
<b>8.1.7</b>	<b>Equipotentiality network</b>					
8.1.7.1	- Equipotentiality network of the ICU, including equalizar panel, conection to the conductive floor and other condutive elements.	Gv	1	0.00 €	0.00 €	
<b>8.1.8</b>	<b>Complementary Work</b>					
8.1.8.1	- Construction work to support the implementation of water distribution networks for fire-fighting purposes, as well as all the works, materials and accessories necessary to the correct execution of the task.	Gv	1	0.00 €	0.00 €	
8.1.8.2	- Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	Gv	1	0.00 €	0.00 €	
<b>8.1.9</b>	<b>Final Work</b>					
8.1.9.1	- Verification, cleaning and testing of all network.	Gv	1	0.00 €	0.00 €	
8.1.9.2	- Elaboration of the pieces drawn according to the work executed.	Gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - ICT</b>					
<b>9.</b>	<b>INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b>					<b>0.00 €</b>
<b>9.1</b>	<b>BLOCK J</b>					<b>0.00 €</b>
	The Bill of Quantities, Specifications, Drawings and all other Contract documents are complementary to each other. It is the responsibility of the Contractor to check the locations and quantities of the materials and equipment to be executed in accordance with the drawings. The unit rate of the materials and equipment shall be based on the Specification, all components as required and specified under each item concerned in the Specifications, Drawings, and all other Contract documents.					
<b>9.1.1</b>	<b>TCP/IP Network</b>					
9.1.1.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
9.1.1.1.1	Building Telecommunications Racks, Boxes and Cabinets:					
9.1.1.1.1.1	- (Rack 4)					
9.1.1.1.1.1.1	- Server Cabinet 12U's (Rack 19" A800xL600xP600 [mm])	Un	1	0.00 €	0.00 €	
9.1.1.1.1.1.2	- Optical Fiber Panel 12 SC/APC connector (OF arrival)	Un	1	0.00 €	0.00 €	
9.1.1.1.1.1.3	- Painel Coaxial (RG-CC Mirror)	Un	1	0.00 €	0.00 €	
9.1.1.1.1.1.4	- Patch Panel 1HU 24 RJ45 Cat 6A connector. (Distribution)	Un	1	0.00 €	0.00 €	
9.1.1.1.1.1.5	- Outlet Rackmount Power Strip 220V with a breaker.	Un	1	0.00 €	0.00 €	
9.1.1.1.1.1.6	- Including, set of 2 fans with thermostat, Fixed Shelf, Cable Management, Rings, and all required accessories and equipments necessary for its perfect assembly and operation.	Un	1	0.00 €	0.00 €	
9.1.1.1.2	Flush and Surface Mounting Devices:					
9.1.1.1.2.1	- Data outlet 1xRJ45 CAT 6A - Surfaced assembly	Un	7	0.00 €	0.00 €	
9.1.1.1.2.2	- Data outlet 2xRJ45 CAT 6A - Surfaced assembly	Un	8	0.00 €	0.00 €	
9.1.1.1.2.3	- Data outlet 2xRJ45 CAT 6A - Trunking System assembly	Un	2	0.00 €	0.00 €	
9.1.1.1.3	Electrical cables:					
9.1.1.1.3.1	Enclosed in a recessed or surface conduiting:					
9.1.1.1.3.1.1	- U/UTP Category 6A Copper LSZH	ml	550	0.00 €	0.00 €	
9.1.1.1.3.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
9.1.1.1.3.2.1	- U/UTP Cat 6 LSZH	ml	450	0.00 €	0.00 €	
9.1.1.1.4	Patch cords:					
9.1.1.1.4.1	- U/UTP Category 6A Copper 1,0mt LSZH	Un	26.00	0.00 €	0.00 €	
9.1.1.1.4.2	- U/UTP Category 6A Copper 3mt LSZH	Un	26	0.00 €	0.00 €	
9.1.1.1.4.3	- FO 50/125 OM3 LSZH	Un	2	0.00 €	0.00 €	
9.1.1.1.5	Metric Rigid Conduit:					
9.1.1.1.5.1	Enclosed in a recessed or surface conduiting:					
9.1.1.1.5.1.1	- PVC Ø 25 mm	ml	530	0.00 €	0.00 €	
9.1.1.1.6	Others:					
9.1.1.1.6.1	- Engineering, System Programming, including System Testing, Commissioning and Training.	Gv	1	0.00 €	0.00 €	
9.1.1.1.6.2	- Connections, connectorizations and labeling.	Gv	1	0.00 €	0.00 €	
9.1.2	Nurse Call System					
<b>9.1.2.1</b>	<b>Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:</b>					
9.1.2.1.1	Nurse Call System Devices:					
9.1.2.1.1.1	- System server Module with license; With Ethernet interface; with Web server; Web Configuration interface; With Autofeed; Supplied with UTP CAT 6A LSZH yellow 1.5 metres; DHCP required for System setup. Including the test tool, to instaled in the premises for servers.	Gv	1	0.00 €	0.00 €	
9.1.2.1.1.2	- Voice over IP (VoIP) server module, with: ethernet interface; interface with the telephone exchange; capacity of 120 beds; graphic module and call organizer with web server; web configuration interface; self-powered; supplied with whip UTP CAT 6A LSZH yellow 1.5 meters, to be installed in the Premises for servers.	Gv	1	0.00 €	0.00 €	
9.1.2.1.1.3	- Main Door visual controller and indicator (P)	Un	2	0.00 €	0.00 €	
9.1.2.1.1.4	- Call module 2 buttons	Un	8	0.00 €	0.00 €	
9.1.2.1.1.5	- Nurse display panel with audio	Un	1	0.00 €	0.00 €	
9.1.2.1.2	Electrical cables:					
9.1.2.1.2.1	Enclosed in a recessed or surface conduiting:					
9.1.2.1.2.1.1	- U/UTP 4 pair, CAT6A, LSZH, 250/23	ml	15	0.00 €	0.00 €	
9.1.2.1.2.1.2	- Bus Cable	ml	30	0.00 €	0.00 €	
9.1.2.1.2.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
9.1.2.1.2.2.1	- U/UTP 4 pair, CAT6A, LSZH, 250/23	ml	15.00	0.00 €	0.00 €	
9.1.2.1.2.2.2	- Bus Cable	ml	5	0.00 €	0.00 €	
9.1.2.1.3	Metric Rigid Conduit:					
9.1.2.1.3.1	Enclosed in a recessed or surface conduiting:					
9.1.2.1.3.1.1	- PVC Ø 20 mm	ml	40	0.00 €	0.00 €	
9.1.2.1.4	Others:					
9.1.2.1.4.1	- Engineering, System Programming, including System Testing, Commissioning and Training.	Gv	1.00	0.00 €	0.00 €	
<b>9.1.4</b>	<b>Fire Detection System</b>					
9.1.4.1	Supply and installation in accordance with the conditions defined in the in written pieces, specification, drawings and other elements of the project, for the following equipment and materials, and all required accessories as specified in schedules of equipment, detailed drawings and specs:					
9.1.4.1.1	Fire Detection Devices:					
9.1.4.1.1.1	- Repeater alarm panel sounder/beacons Orange	Un	1	0.00 €	0.00 €	
9.1.4.1.1.2	- Manual call points	Un	3	0.00 €	0.00 €	
9.1.4.1.1.3	- Optical smoke detector including detector base	Un	16	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - ICT</b>					
9.1.4.1.1.4	- Siren including base	Un	1.00	0.00 €	0.00 €	
9.1.4.1.2	Electrical cables:					
9.1.4.1.2.1	Enclosed in a recessed or surface conduiting:					
9.1.4.1.2.1.1	- JE-H(st)H 2x2x0,8mm²	ml	160	0.00 €	0.00 €	
9.1.4.1.2.2	On the air, fixed on a cable tray or ladder horizontal or vertical:					
9.1.4.1.2.2.1	- JE-H(st)H 2x2x0,8mm²	ml	50	0.00 €	0.00 €	
9.1.4.1.3	Metric Rigid Conduit:					
9.1.4.1.3.1	Enclosed in a recessed or surface conduiting:					
9.1.4.1.3.1.1	- PVC Ø 20 mm	ml	150.00	0.00 €	0.00 €	
9.1.4.1.4	Others:					
9.1.4.1.4.1	- Engineering, System Programming, including System Testing, Commissioning and Training.	Gv	1	0.00 €	0.00 €	
9.1.5	Complementary Work					
9.1.5.1	Construction work to support the implementation of water distribution networks for fire-fighting purposes, as well as all the works, materials and accessories necessary to the correct execution of the task.	Gv	1	0.00 €	0.00 €	
9.1.5.1.1	- Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	Gv	1	0.00 €	0.00 €	
9.1.6	Final Work					
9.1.6.1	- Verification, cleaning and testing of all network.	Gv	1	0.00 €	0.00 €	
9.1.6.2	- Elaboration of the pieces drawn according to the work executed.	Gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Water Supply</b>					
<b>4.</b>	<b>WATER SUPPLY SYSTEM</b>					<b>0.00 €</b>
<b>4.1</b>	<b>Package 3 (Block J)</b>					<b>0.00 €</b>
<b>4.1.1</b>	<b>Pipping</b>					
4.1.1.1	Supply and installation of PP-R Pipes for the water supply network, with thermal insulation in hot water, including all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
4.1.1.1.1	Cold Water:					
4.1.1.1.1.1	Ø 16 mm	m	19.00	0.00 €	0.00 €	
4.1.1.1.1.2	Ø 20 mm	m	23.00	0.00 €	0.00 €	
4.1.1.1.1.3	Ø 25 mm	m	12.10	0.00 €	0.00 €	
4.1.1.1.1.4	Ø 32 mm	m	42.00	0.00 €	0.00 €	
4.1.1.1.1.5	Ø 40 mm	m	28.00	0.00 €	0.00 €	
4.1.1.1.1.6	Ø 50 mm	m	6.50	0.00 €	0.00 €	
4.1.1.1.2	Hot Water:					
4.1.1.1.2.1	Ø 20 mm	m	13.20	0.00 €	0.00 €	
4.1.1.1.2.2	Ø 25 mm	m	22.00	0.00 €	0.00 €	
4.1.1.1.2.3	Ø 32 mm		1.50	0.00 €	0.00 €	
4.1.1.2	Supply and installation of HDPE pipe for the water supply network, buried, including earthworks and installation, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
4.1.1.2.1	Cold Water:					
4.1.1.2.1.1	Ø 50 mm	m	1.00	0.00 €	0.00 €	
<b>4.1.2</b>	<b>Equipment and Accessories</b>					
4.1.2.1	Supply and installation of angles Valves, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following equipments:					
	Wash Basin					
	- In cold water:	un	6	0.00 €	0.00 €	
	WC Cistern					
	- In cold water:	un	6	0.00 €	0.00 €	
4.1.2.2	Supply and installation of Valves, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
4.1.2.2.1	Ø 20 mm	un	1	0.00 €	0.00 €	
4.1.2.2.2	Ø 25 mm	un	3	0.00 €	0.00 €	
4.1.2.2.3	Ø 32 mm	un	5	0.00 €	0.00 €	
4.1.2.3	Supply and installation of shut-off buried Valves, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
4.1.2.3.1	Ø 50 mm	un	1	0.00 €	0.00 €	
4.1.2.4	Supply and installation of electrical heaters with accumulation tank, including shut-off valves, retention valves, electrical connection work, and all accessories, and all works and materials and accessories necessary to a correct execution of the task, with the following capacities:					
4.1.2.4.1	200L vertical	un	1	0.00 €	0.00 €	
<b>4.1.3</b>	<b>Complementary Work</b>					
4.1.3.1	Construction work to support the implementation of water distribution networks for fire-fighting purposes, as well as all the works, materials and accessories necessary to the correct execution of the task.	gv	1	0.00 €	0.00 €	
4.1.3.2	Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	gv	1	0.00 €	0.00 €	
<b>4.1.4</b>	<b>Final Work</b>					
4.1.4.1	Verification, cleaning and testing of all network.	gv	1	0.00 €	0.00 €	
4.1.4.2	Elaboration of the pieces drawn according to the work executed.	gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Fire Water</b>					
<b>7.</b>	<b>FIRE WATER</b>					<b>0.00 €</b>
<b>7.1</b>	<b>Package 3 (Block J)</b>					<b>0.00 €</b>
<b>7.1.1</b>	<b>Pipping</b>					
7.1.1.1	Supply and installation of HDPE pipe, for Firefighting network, buried, including earthworks and installation, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
7.1.1.1.1	Ø 50 mm	m	16.50	0.00 €	0.00 €	
7.1.1.2	Supply and Installation of Galvanized steel pipe, for the Firefighting network, including bonding and branch accessories, supports and clamps with acoustic insulation, threaded or grooved, installed at sight, fixed by quick-mount clamps in galvanized iron attached to walls or ceilings, including opening and closure of notches, wall/floor/ceilings holes for pipe crossings, a first coat of painting anticorrosive, and two coats of colour finishing according legal standards, and remaining accessories necessary to the good functioning of the network, according the plans and construction supervision instruction, with the following diameters:					
7.1.1.2.1	Ø 50 mm	m	7.50	0.00 €	0.00 €	
<b>7.1.2</b>	<b>Equipment and Accessories</b>					
7.1.2.1	Supply and installation of Swing type fire hosereel, Model 99-N(19mm), to be installed in a closet with 180º opening door, predicted by the architecture, with reinforced PVC hose, with 30m length, 3 position nozzle: jet, fog and closure, including manual quick-release valve with manometer, axial bracket, tested and approved according EN 671-1:2012, remaining accessories and necessary works for a perfect execution of the task according construction supervision instructions.	un	3	0.00 €	0.00 €	
<b>7.1.3</b>	<b>Complementary Work</b>					
7.1.3.1	Construction work to support the implementation of water distribution networks for fire-fighting purposes, as well as all the works, materials and accessories necessary to the correct execution of the task.	gv	1	0.00 €	0.00 €	
7.1.3.2	Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	gv	1	0.00 €	0.00 €	
<b>7.1.4</b>	<b>Final Work</b>					
7.1.4.1	Verification, cleaning and testing of all network.	gv	1	0.00 €	0.00 €	
7.1.4.2	Elaboration of the pieces drawn according to the work executed.	gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Waste Water</b>					
<b>5.</b>	<b>WASTE WATER</b>					<b>0.00 €</b>
<b>5.1</b>	<b>Package 3 (Block J)</b>					<b>0.00 €</b>
<b>5.1.1</b>	<b>Pipping</b>					
5.1.1.1	Supply and installation of PVC pipes for buried/embedded wastewater drainage network (inside building), installed in proper ditches, as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans and construction supervision instructions, with the following diameters:					
5.1.1.1.1	Ø 40 mm	m	29.00	0.00 €	0.00 €	
5.1.1.1.2	Ø 75 mm	m	18.00	0.00 €	0.00 €	
5.1.1.1.3	Ø 90 mm	m	34.00	0.00 €	0.00 €	
5.1.1.2	Supply and installation of PVC pipes for buried/embedded wastewater drainage network (outside building), installed in proper ditches, including terrain movements, such as excavation, landfill and transportation of remaining terrain offsite (if necessary), as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans and construction supervision instructions, with the following diameters:					
5.1.1.2.1	Ø 110 mm	m	101.00	0.00 €	0.00 €	
5.1.1.2.2	Ø 125 mm	m	6.00	0.00 €	0.00 €	
<b>5.1.2</b>	<b>Equipment and Accessories</b>					
5.1.2.1	Supply and installation of siphon, as well as all the works, materials and accessories necessary to the correct execution of the task, to install on the following equipments:					
5.1.2.1.1	Wash Basin	un	7	0.00 €	0.00 €	
5.1.2.1.2	Turkish Toilet	un	1	0.00 €	0.00 €	
5.1.2.1.3	Shower	un	3	0.00 €	0.00 €	
5.1.2.2	Supply and installation of traps in chrome plated brass, as well as all the works, materials and accessories necessary to the correct execution of the task.	un	5	0.00 €	0.00 €	
5.1.2.3	Supply and installation of ventilation hats, to be installed on the roof, as well as all the works, materials and accessories necessary to the correct execution of the task, with the following diameters:					
5.1.2.3.1	Ø 90 mm	un	3	0.00 €	0.00 €	
5.1.2.4	Execution of a concrete manholes supported by a suitable recessed cast iron covers, load class B125 to receive the same finishing of the floor, including terrain movements, such as excavation, landfill and transportation of remaining terrain offsite (if necessary), as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans, detail drawings and construction supervision instructions, with the following dimensions:					
5.1.2.4.1	0.60x0.60	un	5	0.00 €	0.00 €	
5.1.2.4.2	0.80x0.80	un	3	0.00 €	0.00 €	
5.1.2.4.3	1.00x1.00	un	3	0.00 €	0.00 €	
<b>5.1.3</b>	<b>Complementary Work</b>					
5.1.3.1	Construction work to support the implementation of wastewater networks, as well as all the works, materials and accessories necessary to the correct execution of the task.	gv	1	0.00 €	0.00 €	
5.1.3.2	Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	gv	1	0.00 €	0.00 €	
5.1.3.3	Evaluation, rehabilitation (if necessary), cleaning and maintenance works of existing networks to be maintained, including all materials and work necessary for their perfect execution.	gv	1	0.00 €	0.00 €	
<b>5.1.4</b>	<b>Final Work</b>					
5.1.4.1	Verification and testing of all network.	gv	1	0.00 €	0.00 €	
5.1.4.2	Elaboration of the pieces drawn according to the work executed.	gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Storm Water</b>					
<b>6.</b>	<b>STORM WATER DRAINAGE</b>					<b>0.00 €</b>
<b>6.1</b>	<b>Package 3 (Block J)</b>					<b>0.00 €</b>
<b>6.1.1</b>	<b>Pipping</b>					
6.1.1.1	Supply and installation of PVC pipes for vertical rainwater drainage network, embedded/at sight, as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans and construction supervision instructions, with the following diameters:					
6.1.1.1.1	Ø 200 mm	m	14.00	0.00 €	0.00 €	
6.1.1.2	Supply and installation of PVC pipes for buried/embedded rainwater drainage network, installed in proper ditches, including terrain movements, such as excavation, landfill and transportation of remaining terrain offsite (if necessary), as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans and construction supervision instructions, with the following diameters:					
6.1.1.2.1	Ø 160 mm	m	155.00	0.00 €	0.00 €	
<b>6.1.2</b>	<b>Equipment and Accessories</b>					
6.1.2.1	Execution of a concrete manholes supported by a suitable gully cast iron covers, load class B125 to receive the same finishing of the floor, including terrain movements, such as excavation, landfill and transportation of remaining terrain offsite (if necessary), as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans, detail drawings and construction supervision instructions, with the following					
6.1.2.1.1	0.40x0.40	un	3	0.00 €	0.00 €	
6.1.2.2	Execution of a concrete manholes supported by a suitable recessed cast iron covers, load class B125 to receive the same finishing of the floor, including terrain movements, such as excavation, landfill and transportation of remaining terrain offsite (if necessary), as well as all complementary works, materials and accessories necessary to the perfect execution of the task, according to the plans, detail drawings and construction supervision instructions, with the following dimensions:					
6.1.2.2.1	0.60x0.60	un	2	0.00 €	0.00 €	
<b>6.1.3</b>	<b>Complementary Work</b>					
6.1.3.1	Construction work to support the implementation of wastewater networks, as well as all the works, materials and accessories necessary to the correct execution of the task.	gv	1	0.00 €	0.00 €	
6.1.3.2	Supply and installation of intumescent clamps and sleeves with characteristics EI60 and EI90 for fire protection at crossings of pipes in combustible material, as well as all the works, materials and accessories necessary to the correct execution of the task	gv	1	0.00 €	0.00 €	
6.1.3.3	Evaluation, rehabilitation (if necessary), cleaning and maintenance works of existing networks to be maintained, including all materials and work necessary for their perfect execution.	gv	1	0.00 €	0.00 €	
<b>6.1.4</b>	<b>Final Work</b>			0.00 €	0.00 €	
6.1.4.1	Verification and testing of all network.	gv	1	0.00 €	0.00 €	
6.1.4.2	Elaboration of the pieces drawn according to the work executed.	gv	1	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Life and Fire Safety</b>					
<b>13</b>	<b>FIRE SAFETY</b>					<b>0.00 €</b>
<b>13.1</b>	<b>BLOCK J</b>					<b>0.00 €</b>
<b>13.1.1</b>	<b>EMERGENCY SIGNS</b>					
13.1.1.1	Application of emergency signs, in accordance with the fire safety project, with the following dimensions:					
13.1.1.1.1	<b>200 x 200 mm:</b>					
13.1.1.1.1.1	S1 - Fire extinguisher	un	11.0	0.00 €	0.00 €	
13.1.1.1.2	<b>150 x 200 mm:</b>					
13.1.1.1.2.1	S2 - Fire Alarm	un	4.0	0.00 €	0.00 €	
13.1.1.1.2.2	S4 - Fire Hose	un	2.0	0.00 €	0.00 €	
13.1.1.1.2.3	S5 - Fire extinguisher Instructions for use, Carbon Dioxide	un	3.0	0.00 €	0.00 €	
13.1.1.1.2.4	S6 - Fire extinguisher Instructions for use, ABC Powder	un	8.0	0.00 €	0.00 €	
13.1.1.1.3	<b>300 x 300 mm:</b>					
13.1.1.1.3.1	P1 - Warning, Electric switch	un	7.0	0.00 €	0.00 €	
13.1.1.1.4	PE - Application of Escape Plan and simplified instructions, in accordance with the fire safety project.	un	2.0	0.00 €	0.00 €	
<b>13.1.2</b>	<b>MEANS OF FIRST INTERVENTION</b>					
<b>13.1.2.1</b>	<b>EXTINGUISHERS</b>					
13.1.2.1.1	Installation of portable fire extinguishers with the following characteristics:					
13.1.2.1.1.1	ABC Powder, 6kg	un	8.0	0.00 €	0.00 €	
13.1.2.1.1.2	Carbon Dioxide (CO <sub>2</sub> ), 5kg	un	3.0	0.00 €	0.00 €	



CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES EURO		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Ventilation and Air Conditioning</b>					
<b>10</b>	<b>Ventilation and Air Conditioning (VAC)</b>					<b>0.00 €</b>
	<b>BLOCK J</b>					<b>0.00 €</b>
<b>10.1</b>	<b>Ventilation and Air Conditioning (VAC)</b>					
<b>10.1.1</b>	<b>Ducts and Casings (Section 3/4/6)</b>					
10.1.1.1	Supply and installation of spiral galvanized steel ductwork and fittings including hangers and washers covered in an approved vapour seal, complete with duct cladding, volume control dampers, fire dampers, supports and all required accessories as per technical specifications and drawings.					
10.1.1.1.1	- Spiral galvanized steel ductwork without insulation					
10.1.1.1.1.1	- DN 125	ml	0.30	0.00 €	0.00 €	
<b>10.1.2</b>	<b>VAC Fans (Section 8)</b>					
10.1.2.1	Supply and installation of exhaust and ceiling fans complete with fittings, flexible connectors, spring mount vibration isolators, frequency inverter, protection against corrosion and all required accessories as specified in schedules of equipment, detailed drawings and technical specifications.					
10.1.2.1.1	Exhaust wall mounted Fan					
10.1.2.1.1.1	- EF1 - S&P Silent 200	Un	2.00	0.00 €	0.00 €	
10.1.2.1.2	Ceiling fans					
10.1.2.1.2.1	- CF1 - Ceiling fan - S&P HTB 75 RC	Un	2.00	0.00 €	0.00 €	
10.1.2.1.2.2	- CF2 - Ceiling fan - S&P HTB 90 RC	Un	4.00	0.00 €	0.00 €	
10.1.2.1.2.3	- CF3 - Ceiling fan - S&P HTB 150 RC	Un	6.00	0.00 €	0.00 €	
<b>10.1.3</b>	<b>Air Outlets And Inlets (Section 10)</b>					
10.1.3.1	Supply and installation of door grille complete with all accessories as per technical specifications and drawings.					
10.1.3.1.1	- ATG1 - 200x100	Un	1.00	0.00 €	0.00 €	
10.1.3.2	Supply and installation of exhaust air louvers complete with insect screen and gravity shutters including connections to ductwork and all required accessories as per technical specifications and drawings.					
10.1.3.2.1	- EL1 - 200x200	Un	2.00	0.00 €	0.00 €	
<b>10.1.4</b>	<b>Split Air Conditioners (Section 11)</b>					
10.1.4.1	Supply and installation of outdoor units, including integral controls, protection device, protection against corrosion, complete with condensate piping, as per technical specifications and drawings.					
10.1.4.1.1	CDU1 - LGS09EQ.UA3	Un	2.00	0.00 €	0.00 €	
10.1.4.1.2	CDU3 - LGS18EQ.UJ2	Un	3.00	0.00 €	0.00 €	
10.1.4.1.3	CDU4 - LGS24EQ.SSK	Un	1.00	0.00 €	0.00 €	
10.1.4.2	Supply and installation of indoor units, including wired remote control, accessories, supports as per technical specifications and drawings.					
10.1.4.2.1	FCU1 - LGS09EQ.NSJ	Un	2.00	0.00 €	0.00 €	
10.1.4.2.2	FCU3 - LGS18EQ.NSK	Un	3.00	0.00 €	0.00 €	
10.1.4.2.3	FCU4 - LGS24EQ.NSK	Un	1.00	0.00 €	0.00 €	
<b>10.1.5</b>	<b>HVAC Testing, Adjusting and Balancing (Section 13)</b>					
10.1.5.1	Final tests of the installation including balancing, adjusting, commissioning and handing to client complete operational systems and equipment as per technical specifications and drawings. installation according to drawings and specifications.	Gv	1.00	0.00 €	0.00 €	
<b>10.2</b>	<b>Hydraulic Installations VAC</b>					
<b>10.2.1</b>	<b>Refrigerant Piping (Section 14)</b>					
10.2.1.1	Supply and installation of refrigeration tube - EN 12735-1, copper tube designed specifically for refrigeration and air conditioning use and accordingly cleaned, nitrogen-purged and capped, complete with all necessary fittings, supports and all required accessories as technical specifications and drawings.					
10.2.1.1.1	Copper with thermal insulation and protection exposed pipe by aluminium cladding					
10.2.1.1.1.1	- Liq Ø6.4 mm / Gas Ø9.5 mm	ml	17.40	0.00 €	0.00 €	
10.2.1.1.1.2	- Liq Ø6.4 mm / Gas Ø12.7 mm	ml	9.30	0.00 €	0.00 €	
10.2.1.1.1.3	- Liq Ø6.4 mm / Gas Ø15.9 mm	ml	7.10	0.00 €	0.00 €	
10.2.1.1.2	Supply and installation of drainage pipe work complete with all necessary fittings, supports and accessories within building as per technical specifications and drawings.	Gv	1.00	0.00 €	0.00 €	
<b>10.3</b>	<b>General</b>					
10.3.1	Identification for VAC Ducting Piping and Equipment.	Gv	1.00	0.00 €	0.00 €	
10.3.2	Painting, Tagging and Labelling of entire mechanical system as specified.	Gv	1.00	0.00 €	0.00 €	
10.3.3	Maintenance for two years (guarantee period), including supply of all needed spare parts during the year.	Gv	1.00	0.00 €	0.00 €	
10.3.4	Transport of Equipment VAC	Gv	1.00	0.00 €	0.00 €	

CODE	DESCRIPTION	UNITS	QUANTITIES	PRICES (EURO)		
				Unitary	Partial	Totals
	<b>BOQ - BILL OF QUANTITY - Medical Gases</b>					
<b>11</b>	<b>MECHANICAL INSTALLATIONS MEDICAL GASES</b>					<b>0.00 €</b>
<b>11.1</b>	<b>BLOCK J</b>					<b>0.00 €</b>
<b>11.1.4</b>	<b>SECTION 4</b>					
11.1.4.1	COPPER PIPELINE					
11.1.4.1.1	Supply and assembly of copper tube suitable for medical gases (according to EN 13348), degreased, deoxidized, arsenic-free, silver-welded (silver content not less than '40% of this), plugged at the ends, with certificate issued by the manufacturer, including all connection accessories, for:					
11.1.4.1.1.1	Ø 8 x 10 mm for to gas O <sub>2</sub>	m	67.0	0.00 €	0.00 €	
11.1.4.1.1.2	Ø 10 x 12 mm for to gas O <sub>2</sub>	m	29.0	0.00 €	0.00 €	
11.1.4.1.1.3	Ø 14 x 16 mm for to gas O <sub>2</sub>	m	8.0	0.00 €	0.00 €	
11.1.4.1.1.4	Ø 8 x 10 mm for to gas MCA	m	56.0	0.00 €	0.00 €	
11.1.4.1.1.5	Ø 10 x 12 mm for to gas MCA	m	22.0	0.00 €	0.00 €	
11.1.4.2	IDENTIFICATION OF PIPELINES					
11.1.4.2.1	Identification of pipework throughout their length, whether mounted in false ceiling or buried piping , in conventional color or with labels	vg	1.0	0.00 €	0.00 €	
11.1.4.3	MEDICAL GAS OUTLETS					
11.1.4.3.1	Supply and assembly of outlets double-sided, with internal filter, with CE marking, manufactured according to ISO 7396-1 2016 for the following gases:					
11.1.4.3.1.1	O <sub>2</sub>	un	16.0	0.00 €	0.00 €	
11.1.4.3.1.2	MCA	un	8.0	0.00 €	0.00 €	
11.1.4.4	BALL VALVES					
11.1.4.4.1	Supply and assembly of 1/4 turn isolating valves, manufactured according to ISO 7396-1: 2016, for network sectioning, for:					
11.1.4.4.1.1	Ø 8 x 10 mm for to gas O <sub>2</sub>	un	1.0	0.00 €	0.00 €	
11.1.4.4.1.2	Ø 10 x 12 mm for to gas O <sub>2</sub>	un	2.0	0.00 €	0.00 €	
11.1.4.4.1.3	Ø 8 x 10 mm for to gas MCA 4,5 bar	un	3.0	0.00 €	0.00 €	
11.1.4.5	PRESSURE REDUCTION					
11.1.4.5.1	Supply and assembly of second reduction for O <sub>2</sub> in pressure 8 bar / 4,8 bar, with Medical Device marking 93/42 / EEC, in simple, manufactured according to ISO 7396-1: 2016.	un	1.0	0.00 €	0.00 €	
11.1.4.5.2	Supply and assembly of second reduction for MCA in pressure 8 bar / 4,5 bar, with Medical Device marking 93/42 / EEC, in simple, manufactured according to ISO 7396-1: 2016.	un	1.0	0.00 €	0.00 €	
<b>11.1.5</b>	<b>SECTION 5</b>					
11.1.5.1	ALARMS SYSTEM					
11.1.5.1.1	Local electronic-type alarm including pressure sensors across the network (O <sub>2</sub> ) and all connections, with CE device marking medical and according to ISO 7396-1: 2016. Brand: Air Liquide Medicinal	un	1.0	0.00 €	0.00 €	
11.1.5.1.2	Local electronic-type alarm including pressure sensors across the network (MCA) and all connections, with CE device marking medical and according to ISO 7396-1: 2016. Brand: Air Liquide Medicinal	un	1.0	0.00 €	0.00 €	
<b>11.1.6</b>	<b>SECTION 6</b>					
11.1.6.1	ELECTRICAL INSTALLATIONS					
11.1.6.1.1	Electrical connections to the alarm system	un	1.0	0.00 €	0.00 €	
11.1.6.2	TESTE AND EXPERIENCE					
11.1.6.2.1	Construction and electricity works	vg	1.0	0.00 €	0.00 €	
11.1.6.2.2	Tests and experiences with the delivery of certificates signed by the contractor and inspection, according to the standard and ISO 7396-1: 2016	vg	1.0	0.00 €	0.00 €	
11.1.6.2.3	Final screens with the traces of the medical gas networks	vg	1.0	0.00 €	0.00 €	
11.1.6.3	SATT TRAINING					
11.1.6.3.1	Staff training and warranty and maintenance for two years (guarantee period), including supply of all needed spare parts during the year.	vg	1.0	0.00 €	0.00 €	