



## BoQ - Entrance Structure, Waiting Areas and Fence Work

\*Refer all discrepancies to the Engineer.

\*All material not in conformity with design specification and description WILL NOT be accepted/approved.

\*All critical work stages should not be carried out in the absence of the Engineer.

\*All construction work to be carried out by competent skilled workers

\*All steel construction should be in accordance to BS 5950

S/N	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (NGN)	AMOUNT (NGN)
<b>A</b>	<b>Preliminaries</b>					
1a	Mobilization/Demobilization	Initial Mobilization and final demobilization of equipment, labour and materials to and from site	sum	1		0
<b>Total of Section A</b>						0
<b>B</b>	<b>Demolition and Disposal</b>					
1b	Demolition and Disposal	Carfully demolish and remove materials off site for structures/futures that will no longer be in use as directed, this will include but not limited to 2 existing security rooms, concrete landscaping materials, concrete walls, rubbles from foundation works, existing gate house, railing on top of existing fencing wall	sum	1		0
<b>Total of Section B</b>						0
<b>C</b>	<b>Entrance Structure</b>					
1c	Setting-out of power house	Set out entance building as shown in the drawings.	sum	1		0
2c	Excavation	Excavate foundation trench to a minimum depth of 0.7m (plus 0.25m sideways to allow working space)	m <sup>3</sup>	30		0
3c	Blinding	Cast 50mm blinding under blockwork with weak concrete of ratio 1:3:6. slope towards south	m <sup>3</sup>	1.5		0
4c	Blockwork	Laying of sancrete blockwork (230x450mm) ; laid stretcher bond on cement and sand mortar (1:3) in foundation and above floor level	m <sup>2</sup>	150		0
5c	Blockwork	Laying of sancrete blockwork (150x450mm) ; laid stretcher bond on cement and sand mortar (1:3) in foundation and for dwarf wall (0.75m) inside entrance room as indicated on the drawings	m <sup>2</sup>	30		0

6c	Back-filling	Back filling of trench with selected excavated soil, including spreading, watering and compaction around the block wall perimeter	m <sup>3</sup>	15		0
7c	Laterite filling /Hardcore filling	Filling of foundation wall perimeter with laterite, including supply of material, spreading, watering, compacting in layers to achieve specific compaction density and placement of Hardcore materials not exceeding 300mm as per specifications and drawings (provisional quantity)	m <sup>3</sup>	15		0
8c	Oversite Concrete slab	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm <sup>2</sup> working strength after 28 days of curing - with thickness of 150mm	m <sup>3</sup>	12		0
9c	Lintel for entrance building	Prepare Sawn formwork to cover sides of the block wall and place Y12 high yield reinforcement bar appropriately; Cast plain M15 grade concrete (1:2:4) for lintel;	nos	12		0
10c	Rendering	Internal and external rendering of the block walls and floor using 1:4 mortar and gauge of 25mm	m <sup>2</sup>	360		0
11c	Painting and Decoration	Prepare and apply silk paint in accordance with manufacturers instruction on all internal wall surfaces - This include for screeding of walls before applying the paint	m <sup>2</sup>	150		0
12c	Painting and Decoration	Prepare and apply emulsion paint in accordance with manufacturers instruction on all external wall surfaces	m <sup>2</sup>	110		0
13c	POP Ceiling	Prepare, hang and paint POP of thickness 12mm replacing all existing ceiling surfaces on the first floor, all designs to be approved by the engineer - the cost is all inclusive (materials, labour, scaffolding)	m <sup>2</sup>	75		0
14c	Curtain Walls	Supply and fix neatly and firm 10mm thick see through glass as indicated, frameless glazed partition curtain wall providing clear visibility to be placed on top of dwarf walls inside the entrance rooms so that guards can see traffic in all direction - On th 3 dwarf walls as shown in the drawing	m <sup>2</sup>	45		0
15c	Floor Tiling - this include skirting	Supply and install approved 10mm thick 600x600mm fully vitrified floor tiles finish laid to approved pattern fixed with tile adhesive but jointed and pointed in matching grout, laid on screeded bed - sample to be approved before supply	m <sup>2</sup>	80		0

16c	Floor Tiling for Toilets	Supply and install approved 10mm thick 250x250mm fully vitrified floor tiles finish laid to approved pattern fixed with tile adhesive but jointed and pointed in matching grout, laid on screeded bed - sample to be approved before supply	m <sup>2</sup>	10		0
<b>Doors and Windows</b>						
17c	900x2,100mm Steel Doors	Supply and fix purpose made steel doors covered with 6mm steel sheet, 6mm angle iron and pipes with accessories of superior quality - with approved, architraves and set of necessary accessories as approved by the engineer	nos	8		0
18c	750x2,100mm Aluminium Doors	Supply and fix aluminium doors with accessories of superior quality on aluminium curtain walls - with approved frames, architraves and set of necessary iron as approved by the engineer	nos	5		0
19c	600x600mm height Aluminium Windows	Tower Economy Aluminium casement powdered coated approved window with 6mm clear glass or tint (as directed by engineer) and flyscreen complete with all iron mongery assembled and steel or aluminium burglary proof framing and fixing	nos	4		0
<b>Roof</b>						
20c	2x4"x12' hard wood (obeche) for Rafter and Tie Beam	Supply, cut and nail full gauge 2x4"x12' wood Kingpost to be 3.5m or as approved by the engineer	pcs	70		0
21c	2x3"x12' hard wood (obeche) for Purlin	Supply, cut and nail full gauge 2x3"x12' wood	pcs	80		0
22c	1x12"x12' hard wood for board	Supply, cut and nail full gauge 1x12"x12' wood	pcs	15		0
23c	Roof covering - 0.55mm thickness	Approved longspan corrugated aluminium otherwise approved roofing sheets fixed to purlins with appropriate accessories in accordance with manufacturers printed instructions and as directed by the engineer	m <sup>2</sup>	90		0
24c	Roofing ridge - 0.55mm thick and 300mm girth	Approved aluminium roof gutter system, connected to attached PVC pipes according to the engineers specifications	m	35		0
25c	Roof Finishes	Miscellaneous roof finishes as required or directed by the engineer	sum	1		0
<b>Mechanical and Electrical Installations and Fittings</b>						
26c	Mechanical Installations - Piping and Toilet Fittings	Supply and fix a set of toilet fittings with all accessories (Closed couple water closet system complete with Pan connector and hand shower; Wash hand basin and taps; Mirror) - All of high quality	nos	2		0

27c	Electrical Fix	Allow a provisional sum for the supply and installation of pipe works of PVC conduit, inclusive of wiring, Earth conduiting system, change over switches, sockets and switches, lighting fittings, in the entrance building	sum	1		0
28c	2HP Air Conditioning with Standing Indoor Unit	Supply and fix approved quality split AC units with all accessories to put it in place	nos	2		0
<b>Total of Section C</b>						0
<b>D</b>	<b>Inside Waiting Area</b>					
1d	Column pads for waiting area I-Column beams	600x600mm pads: Excavate, blind, cast footings using Y12 bars, cast column starters that will hold I-columns with provided gusset plates as directed	nos	18		0
2d	I-Column - Waiting Area Structure	150x75x6mm: Vertical structural steel flange beams resting on Column pads and directly supporting horizontal steel sections carrying the roof with plates and associated fittings, bolts, sundry members and the like; supporting roof of waiting area; treating with red oxide and painted in IOM blue	m	55		0
3d	Flange Beam - Waiting Area Structure	150x75x6mm: Horizontal structural steel flange beams resting and connecting I-Column and directly supporting purlins; steel plates and associated fittings, bolts, sundry members and the like; supporting purlins; treating with red oxide and painted in IOM blue	m	55		0
4d	L-Beam (Angle Iron) for Purlins	75x75x3mm: Allow for fabrication and installation of L-angles plate as purlins (angle iron) with all accessories to be welded, cut to length, primed with anti corrosion primers to receive longspan aluminium covering with attached fascia board to receive aluminium roof fascia as directed - at an interval of 500mm	m	180		0
5d	Alluminium Fascia Board	300x0.55mm: Provide aluminium fascia board of approved colour to cover perimeter of the waiting area as directed	m	30		0
6d	Roof covering - 0.55mm thickness	Approved longspan corrugated aluminium otherwise approved roofing sheets fixed to purlins with necessary accessories including drive screws and bolts, nut washers and bituminous sealers all in accordance with manufacturers printed instructions and as directed by the engineer	m <sup>2</sup>	165		0
7d	Ceiling	Supply and install approved 600x600mm suspended mineral fibre ceiling boards fixed to galvanized steel noggings; these include all necessary fittings	m <sup>2</sup>	165		0

8d	Hard Landscaping of entire Annex/new compound	Supply and install concrete interlocking blocks in the entire compound on top of sand screeding and to be filled in-between with stone dust Kerps to be provided at boundaries of green areas that will not be interlocked	m <sup>2</sup>	550		0
<b>Total of Section D</b>						0
<b>E Outside Waiting Area</b>						
ie	Sheds outside perimeter fencing	Supply and install cantilevered shed along the perimeter fencing by installing: High quality 150mm galvanized circular poles buried in the ground and supporting the entire weight of the structure at intervals of 6m; High quality 50mm galvanized circular poles crossing and supporting the tarpaulin mesh cover for the roof top and also connecting to 150mm galvanized pipe; Tarpaulin mesh cover for roof top to be of high quality and of thickness between 6 and 8mm; 150mm poles to be fasten in the ground using concrete and putting back/replacing existing pavement cover All other accessories needed in the installation Two of 3.8x10.52m porch/shed and Two 2.5x2.5m porch/shed as shown in drawing	m <sup>2</sup>	100		0
<b>Total of Section E</b>						0
<b>F Fencing and Gate</b>						
1f	Excavation	Excavate foundation trench to a minimum depth of 0.3m (plus 0.25m sideways to allow working space)	m <sup>3</sup>	6		0
2f	Levelling bottom of excavation	Level and compact bottom of excavation to receive concrete; levelling to be in accordance with continues flow of water through the culvert from and into the drainage channel	m <sup>2</sup>	7		0
3f	Blinding	Cast 50mm blinding under concrete work with weak concrete of ratio 1:3:6 - for 20 footings	m <sup>3</sup>	0.4		0
4f	Blockwork	Laying of sancrete blockwork (230x450x230mm) ; laid stretcher bond on cement and sand mortar (1:3) as shown in the drawing	m <sup>2</sup>	110		0
5f	Back-filling	Back-fill and compact excavated material into the blockwork allowance space	m <sup>3</sup>	4		0
6f	Rendering	Internal, external and floor rendering of the drainage block walls using 1:4 mortar and gauge of 12mm	m <sup>2</sup>	110		0

7f	Painting and Decoration	Prepare and apply emulsion paint in accordance with manufacturers instruction on all external wall surfaces	m <sup>2</sup>	400		0
8f	Concrete for hanging of gate	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm <sup>2</sup> working strength after 28 days of curing - for 20 columns	m <sup>3</sup>	1		0
9f	Steel Gate	Supply and install a 4m sliding steel gate made from metal sheet of guage 6mm All angle iron, L-beam and pipes to be use should be of 6mm guage All steel materials to be treated with red oxide before painting in gloss IOM blue as directed by the engineer	Pcs	1		0
10f	Coping	Provision of formwork and casting of concrete for a 50x330mm concrete coping along the perimeter of the fence	m	60		0
11f	Y-Shaped Poles	Supply and install Y-shaped steel poles made from angle iron or poles placed at an interval of 4m This should be put in place using concrete and as directed by the engineer	Pcs	20		0
12f	Razor Fence Barb Wire	Supply and install 2.5x600mm high security galvanised razor barb in a 600mm diameter coil that will reach out to the entire perimeter of the fence	m	60		0
<b>Total of Section F</b>						0
<b>G</b>	<b>Water Storage Tank and Steel Platform</b>					
1g	Steel Platform	Supply and fabricate using 75x100mm I-section channel 6m long stand to accommodate two 3,500liters storage tank All supporting angle iron, metal sheet and pipes to be provided as appropriate	sum	1		0
2g	Storage Tanks	Supply and install two 3,500 liters storage tanks and connecting to the service supply of each building in the annex using appropriate plumbing materials as directed by the engineer	nos	2		0
17c	1,200x2,100mm Steel Doors	Supply and fix purpose made steel doors covered with 6mm steel sheet, 6mm angle iron and pipes with accessories of superior quality - with approved, architraves and set of necessary accessories as approved by the engineer	nos	1		0
<b>Total of Section G</b>						0
<b>H</b>	<b>Contingency</b>					
1h	Contingency	Allow a provisional sum as contingency amount to cover for all unforeseeable costs	sum	1		0
<b>Total of Section H</b>						0

<b>Summary</b>
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<b>Preliminaries</b>	<b>0</b>
<b>Demolition and Disposal</b>	<b>0</b>
<b>Entrance Structure</b>	<b>0</b>
<b>Inside Waiting Area</b>	<b>0</b>
<b>Outside Waiting Area</b>	<b>0</b>
<b>Fencing and Gate</b>	<b>0</b>
<b>Water Storage Tank and Steel Platform</b>	<b>0</b>
<b>Contingency</b>	<b>0</b>
<b>TOTAL(NGN)</b>	<b>0</b>
<b>TOTAL(USD)</b>	<b>0</b>