



BoQ - Construction of a Block of Sanitation Facility (4+2)

***Refer all discrepancies to the Architect/Engineer and IOM WaSH staff in charge.**
***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 IOM WaSH supervisor**
***All construction work to be carried out by competent skilled workers**

S/N	ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (NGN)	AMOUNT (NGN)
A	Preliminaries					
1a	Mobilization/Demobilization	Initial Mobilization and final demobilization of equipment, labour and materials to and from site	sum	1	5,000	5,000
Total of Section A						5,000
B	Excavation and Earth Work					
1b	Site clearance	Clear site of shrubs, grasses undergrowth and other unwanted materials from the surrounding	sum	1	3,000	3,000
2b	Excavation	Excavate pit for the latrine to a maximum depth of 2.5m (plus 0.25m sideways to allow working space) Excavate pit for shower blockwork to a maximum depth of 0.6m (plus 0.25m sideways to allow working space) Excavate pit for lining foundation block for accessibility platform and ramps to a maximum depth of 0.6m (plus 0.25m sideways to allow working space) Excavate pit for shower soak pit to a maximum depth of 1.5m (plus 0.25m sideways to allow working space)	m ³	55	400	22,000
3b	Levelling bottom of excavation	Level and compact bottom of excavation to receive concrete	m ²	45	70	3,150
4b	Backfilling	Filling to excavation with selected materials from excavation; Compact to edges of facility block and dispose surplus off site after blockwork	m ³	45	200	9,000
Total of Section B						37,150
C	Concrete Structure					
1c	Blinding	Cast 50mm blinding under blockwork with weak concrete of ratio 1:3:6	m ³	0.6	15,000	9,000

2c	High tensile bar (BS4449) for footings and column	Y12 - High yield reinforcement bar to be cut, bend and fix for footings (at 200c/c) and column starters as shown in drawing Y10 - High yield reinforcement bar to be cut, bend and fix for stirrups (at 200c/c) as shown in drawing	Kg	115	500	57,500
3c	Concrete for floor of septic tanks	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing for floor of septic tank with thickness 100mm	m ³	0.7	45,000	31,500
4c	Septic tank floor screeding	Screed floor of septic tank with concrete of gauge 25mm (1") providing surface that will prevent sewage infiltration	m ³	0.2	25,000	5,000
5c	Concrete for footings and column	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing for both footings and columns with dimensions as shown in the drawing	m ³	1.5	45,000	67,500
6c	Blockwork	Laying of sancrete blockwork (230x450mm) ; laid stretcher bond on cement and sand mortar (1:3) flush pointed for septic tanks and shower foundation- as illustrated in the drawing	m ²	46	4,500	207,000
7c	Rendering	Internal rendering of septic tanks using 1:4 mortar and gauge of 12mm	m ²	55	1,500	82,500
8c	Formwork for Beam	Sawn formwork to cover sides of beam, the beam is placed at the top of last coach of block to receive slab, superstructure and user load as shown in the drawing	m ²	5	1,600	8,000
9c	Formwork for Slab	Sawn formwork to cover soffit of slab supported with vertical poles at appropriate intervals	m ²	6.5	1,600	10,400
10c	High tensile bar (BS4449) for beams	Y12 - High yield reinforcement bar to be cut, bend and fix for resisting compression and tension in beams as shown in drawing Y10 - High yield reinforcement bar to be cut, bend and fix for stirrups (at 200c/c) as shown in drawing	Kg	63	500	31,500
11c	High tensile bar (BS4449) for slab	Y12 - High yield reinforcement bar to be cut, bend and fix for both main and distribution bars at an interval of 150mm as shown in drawing	Kg	130	500	65,000
12c	Concrete for Beams	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing - dimensions as shown in drawing	m ³	0.6	45,000	27,000
13c	Concrete for Slab	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing, with thickness of 100mm	m ³	1.6	45,000	72,000

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14c	External hand rails to aid PWSN when using the ramp	Cut, bend, weld and fix in position as shown in the drawing using 50mm (2")-3mm thickness hollow GI pipe (in accordance to field engineers instruction): Vertical pipes at interval of 400mm Horizontal pipes at interval of 270mm	sum	2	15,000	30,000
15c	Internal hand rails to aid PWSN when using the facility	Cut, bend, weld and fix in position as shown in the drawing using 50mm (2")-3mm thickness hollow GI pipe: Horizontal supporting pipe to be attached/fix into the 2 vertical poles (3") as shown or in accordance to field engineers instruction	sum	2	4,000	8,000
16c	Blockwork for shower collection chamber	Laying of sancrete blockwork (150x450x230mm) and rendering/dressing ; laid stretcher bond on cement and sand mortar (1:3) flush pointed for shower collection chamber, two PVC pipes will be connected into the chamber and one out to the soak pit as illustrated in the drawing	m ²	1.5	4,000	6,000
17c	Concrete slab for shower collection chamber	Precast Slab (with handle made from Y12 steel or as specified by field engineer) - Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing, with thickness of 75mm to cover top of chamber	sum	1	5,000	5,000
18c	Blockwork for steps and ramps	Laying of sancrete blockwork (230x450mm) ; laid stretcher bond on cement and sand mortar (1:3) flush pointed for steps and ramps, this include cost for rendering and finishing the edges- as illustrated in the drawing	m ²	7	4,500	31,500
19c	Backfill and compact shower stances	Backfill and compact shower stances with 300mm thickness hardcore materials	m ³	0.9	2,500	2,250
20c	Shower floor over-site concrete	Cast 75mm over-site concrete; Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing	m ³	0.15	45,000	6,750
21c	Backfill and compact for steps and ramps	Backfill and compact for steps and ramps with 300mm thickness hardcore materials	m ³	7.5	2,500	18,750
22c	Blockwork for shower soak pit	Laying of sancrete blockwork (230x450mm) - 2x2x1.5m out-to-out ; laid stretcher bond on cement and sand mortar (1:3) flush pointed for shower soak pit, entire second and fourth coaches of blockwork will be inverted to allow for more soaking by adjacent soil- as illustrated in the drawing	m ²	10.5	4,500	47,250
23c	Rendering	Internal rendering of soak pit using 1:4 mortar and gauge of 12mm	m ²	9	1,500	13,500

24c	Concrete Slab for Soak Pit	Precast Slab(with handle made from Y12 steel or as specified by field engineer) - Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm ² working strength after 28 days of curing, with thickness of 100mm and divided into 2 for easy placement	sum	1	30,000	30,000
					Total of Section C	872,900
D	Superstructure					
1d	Networking of liquid waste pipe	laying and connecting 150mm (6") PVC pipes with connections and necessary fittings from floor drains to inspection chamber and to soak pit - This include excavation and patching where needed	m	2	5,000	10,000
2d	100mm (4") PVC floor drains	Installation of 100mm (4") PVC floor drains (with all accessories) to collect waste water from shower cubicle to inspection chamber	pcs	2	2,000	4,000
3d	100mm (4") PVC Ventillation Pipe	Installation of 100mm PVC ventillation pipe with fly preventing cap, this include fastening with metal strip (langalanga) to the superstructure	pcs	4	2,000	8,000
4d	75mm (3") GI Pipe	Installation of 75mm GI vertical poles to carry superstructure as shown	pcs	6	5,000	30,000
5d	2x4" hard wood (obeche) for super structure	Supply, cut and nail full gauge 2x4" wood as horizontal and vertical poles as shown	m	160	850	136,000
6d	2x3" hard wood (obeche) for super structure	Supply, cut and nail full gauge 2x3" wood as horizontal and vertical poles as shown	m	70	550	38,500
7d	CGI Sheet	Supply and install 30gauge (0.2mm thickness) CGI sheet for walling and roofing of the super structure, it should be fasten using 2.5" roofing nail (cap nail) at grove interval - All walling CGI sheets to be fasten at edges with timber batten as directed by the field engineer	m ²	80	1,800	144,000
8d	Doors with accessories	Fabrication and installation of wooden framed doors, wrapped with CGI sheet (0.2mm thickness), fasten at edges with timber batten and braced at intervals with hinges, internal locks and door handle of approved samples or as directed by the field engineer	pcs	6	4,000	24,000
9d	Wire mesh/net	Cut and fix flies-preventing wire mesh as shown	m ²	5	250	1,250
10d	Fascia board	Supply and install 1x12" fascia board, painted blue with gloss paint (IOM blue)	m	7.5	700	5,250
					Total of Section D	401,000
E	Finishes					

1e	Internal floor screeding	Screed internal floor with concrete of gauge 25mm (1") providing surface that will flow towards pit/floor drain	m ³	0.25	20,000	5,000
2e	Rendering & Dressing	Rendering and dressing of concrete structure above normal ground level	sum	1	3,000	3,000
3e	Visibility	Placement of 2metallic visibility: IOM and donor visibility, and; Visibility seggregating gender use for the facility. This should be printed on A3 sized metal sheet - Sample to be approved before placement	pcs	2	3,000	6,000
4e	Contingency	Allow a provisional sum as contingency amount	sum	1	5,000	5,000
Total of Section E						19,000

TOTAL(NGN)	1,335,050
TOTAL(USD)	3,490

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