International Organization for Migration (IOM)
The UN Migration Agency

BoQ - Construction of a Block of Sanitation Facility (1+1)

***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		0
					Total of Section A	0
B	**Excavation and Earth Work**					
2b	Site clearance, excavation and levelling buttom of excavation	Clear site and excavate 2.55x1.9x2.3m pit for the latrine (inclusive of 0.25m sideways working space) Excavate pit for shower blockwork measuring 2.6x0.7x0.6m (plus 0.25m sideways to allow working space) Excavate 2.6x0.6x0.6m pit for entrance steps of both latrine and shower Excavate 2x2x1.5m pit for shower soak pit (inclusive of 0.25m sideways to allow working space)	m^3	20		0
4b	Backfilling	Filling to excavation with selected materials from excavation; Compact to edges of facility block and dispose surplose off site after blockwork	m^3	3.5		0
					Total of Section B	0
C	**Concrete Structure**					
1c	Blinding	Cast 50mm blinding under blockwork with weak concrete of ratio 1:3:6 for septic tank, shower, chamber and shower soak pit	m^3	0.4		0
3c	Mass concrete for floor of septic tanks	Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm2 working strength after 28 days of curing for floor of septic tank with thickness of 100mm	m^3	0.3		0
4c	Septic tank floor screeding	Screed floor of septic tank with mortar of gauge 25mm (1") providing smooth surface that will prevent sewage infiltration	m^3	0.04		0

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6c	Blockwork	Laying of sancrete blockwork (230x450mm) ; laid stretcher bond on cement and sand mortar (1:3) flush pointed and extruding 450mm above normal ground level for latrine septic tank, shower foundation, shower service chamber, entrance steps and shower soak pit- as shown in the drawing All upper coarches of blocks to be solid filled with with weak conrete so that they carry the slabs	m^2	36		0
7c	Rendering	Rendering using 1:4 mortar and gauge of 12mm for: latrine septic tank; internal shower soak pit; 450mm of shower soak pit above ground level; 450mm of latrine and shower block above ground level; shower service chamber; entrance steps	m^2	30		0
9c	Formwork for Slab	Sawn formwork to cover soffit of slab (septic tank, soak pit and service chamber) supported with vertical poles at appropriate intervals, this include cost for nails, binding wire , brackets, bracings and membrane layer	m^2	6		0
12c	Concrete for slab	Cast M15 plain grade concrete (1:2:4) for slab (septic tank, service chamber, shower soak pit); developing minimum 15N/mm2 working strength after 28 days of curing - with thickness of 100mm as shown in drawing or as directed by the technical team	m^3	0.6		0
13c	High tensile bar (BS4449) for slab	Y12 - High yield reinforcement bar for slab (septic tank, service chamber, shower soak pit) to be cut, bend and fix for both main and distribution bars at an interval of 150mm each as shown in drawing or as directed by the technical team	Kg	94		0
19c	Backfill and compact shower stance and entrance steps	Backfill and compact shower stance and entrance steps with 300mm thickness hardcore materials before placement of over-site concrete	m^3	0.7		0
20c	Over-site concrete	Cast 75mm over-site concrete; Cast plain M15 grade concrete (1:2:4); developing minimum 15N/mm2 working strength after 28 days of curing as floor screeding for shower stance and entrance steps	m^3	0.3		0
					Total of Section C	0
D	**Superstructure**					
1d	Networking of liquid waste pipe	laying and connecting 100mm (4") PVC pipes with connections and necessary fittings from floor drains to inspection chamber and from inspection chamber to soak pit - This include excavation and patching where needed	sum	1		0

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	1		0
3d	100mm (4") PVC Ventillation Pipe	Installation of 100mmx3m PVC ventillation pipe with fly preventing cap (fulbora guard cover), this include fastening with metal strip (langalanga) to the superstructure at three points and to be placed on the detachable slab	pcs	1		0
4d	150mm Walling	Construct mudbrick walling of size 150x150x300 (or similar size available) from locally molded and sun baked laid stretcher bond on cement and sand mortar (1:3)	m^2	14		0
4d	Rendering of walling using Earthen Plaster	Apply 15mm thickness (of earth-based plastering in the internal and external of the above walling, the mixture should comprise of soil, sharp sand, heated bitumen and used engine oil	m^2	28		0
9d	Wire mesh/net	Supply, cut and fix flies-preventing wire mesh on front and sides of the structure as shown	m^2	2.5		0
5d	2x4" hard wood (obeche) for super structure	Supply, cut and nail full gauge 2x4" wood as horizontal and vertical poles as shown	m	12		0
6d	2x3" hard wood (obeche) for super structure	Supply, cut and nail full gauge 2x3" wood as horizontal and vertical poles as shown	m	28		0
6d	2x3" hard wood (obeche) for fastening of mesh/net	Supply, cut and nail full gauge 2x3" wood as horizontal and vertical poles as shown	m	22		0
10d	Fascia board	Supply and install 1x12" fascia board, painted blue with gloss paint (IOM blue)	m	2.5		0
7d	CGI Sheet	Supply and install 30gauge (0.2mm thickness) CGI sheet for roofing of the super structure, it should be fasten using 2.5" roofing nail (cap nail) at grove interval	m^2	8		0
8d	Doors with accessories	Fabrication and installation of wooden framed doors (50x150mm timber framing, 50x75mm timber panel/leaf), 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	pcs	1		0
3e	Visibility	Placement of 2metallic visibility (IOM and donor visibility) to be placed on the approach and rear of the facility. This should be printed on A3 sized metal sheet - Sample to be approved before placement	pcs	2		0
					Total of Section D	0
E	**Finishes**					

TOTAL(NGN)	**0**
TOTAL(USD)	**0**

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