

Bill of Quantities for the Construction One Family Pit Latrine and Shower - Mud brick walling (1.2 x 0.9 x 2.15m deep Pit)						
S/N	DESCRIPTION	UNIT	QTY	RATE (NGN)	AMOUNT (NGN)	AMOUNT (USD)
A	Excavation and earthworks					
1	Clear site and excavate 1.8 m x 2.1 x 2.2m depth pit for the latrine	m ³	7.9		-	-
2	Spread and remove and backfill already completed shelters with the soil. 2.1m*.6m*2.1m	m ³	2.6		-	-
	Total of section 1 carried to summary				-	-
B	Sub structure					
3	Plain in situ concrete on Foundation footing (concrete mix 1:2:4 – 20mm aggregate) (8.4 m length x 0.15m thickness x 0.550m)+ 0.05m ³	m ³	0.75		-	-
4	Plain in situ concrete slab and steps (concrete mix 1:2:4 – 20mm aggregate)	m ³	0.2		-	-
5	Provide and install 50mm diameter PVC floor drain, connected to 50mm diameter drain pipe to be embedded in concrete slab and channelled to the soak pit. See outside.	LS	1		-	-
6	Soak pit of 550mm widex400mm lengthx500mm deep, filled with gravel stones of 3 inches thick to collect waste water from drain pipe and soak pit outside the structure. (refer drawing)	m ³	0.11		-	-
7	Hard core stones in Shower of 1200mm widex1200mm lengthx150mm deep, to be well compacted , serving as a bed for concrete slab. To provide for collection of waste water from concrete slab above and passing through the hardcore to the soak pit outside via the PVC drain pipe. (refer drawing)	m ³	0.216		-	-
8	Reinforced concrete floor slab (1:2:4- 20mm aggregate) reinforced with Y12mm bars @ 200 c/c both way (1200mm x 1500 mm x100mm)	m ³	0.18		-	-
9	Sawn form work to: Sides of slab	m ²	1		-	-
10	Sawn form work to: Soffits of concrete slab	m ²	1.1		-	-
C	Super Structure					
11	Block work: Hollow sand:concrete block work bedded and jointed in cement and sand mortar (mix 1:6), 150mm thickness filled with cement sand mortar for pit lining, other foundation works, and soak pit from shower (5.1m length x 2.3m+3.9*0.485)+1.3*.25)	m ²	14.7		-	-
12	Complete length 3.6m*100mmØ uPVC vent pipes placed with fly screen net	No.	1		-	-
	Total of section 2 carried to summary				-	-
D	Superstructure(zinc) and Roofing					
14	Walling: Construct mudbrick walling 150mm thickness. (mudbrick sizes 300mm length x 150mm thick x 150mm wide). In Sand cement mix mortar. 5.25+3+3+4	m ²	11.24		-	-
15	Internal earth-based plaster(for shower area only) and External plastering: 15mm thickness, mixture of soil, sharp sand, boiled bitumen and used engine oil, to be applied in at least two coats in the bathing area only. Inclusive of all required materials for the mixture, water and labour costs.	m ²	30		-	-
16	Provide and fix wire mesh with fly screen net on front side and above the door, and also the two sides of the structure. for ventilation opening;	m ²	1.5		-	-
17	Roof : 0.20mm gauge corrugated Zinc roofing sheets on 4No. 75mm x 50mm x 3200mm purlins on 5No. 100mm x 50mm x 1600mm timber Hardwood treated Taraba timber rafters on 2No. 150mm x 50mm Hardwood taraba treated timber wall plate. All fastened with langalanga to the wall and both rafters with purlins at joints. see detail design.	m ²	5.8		-	-

18	Hardwood treated Taraba timber 100mm x 50mm x 3200m full length outer bracing laid on blockwork with langalanga and fastened to vertical timber studs to provide for fixing of net. Bottom chord	Pcs	2		-	-	
19	Hardwood treated Taraba timber 75mm x 50mm x 3200m full length outer bracing laid on blockwork with langalanga and fastened to vertical timber studs to provide for fixing of net. Upper chord.	Pcs	1		-	-	
20	Hardwood treated Taraba timber 75mm x 50mm x 450mm vertical timber studs fastened to horizontal outer bracing for fixing of net. Kindly note that additional two offcuts will be sourced from the remains from outer bracing. To make it 7 pieces in all.	Pcs	5		-	-	
21	Purpose made IOM branded CGI sheet door sizes 650mm x 17500mm high installed complete with hinges, staples, padlocks and keys.	No.	1		-	-	
	Total of section 3 carried to summary				-	-	
	SUMMARY						
1	Section 1 Excavation				-	-	
2	Section 2 Sub – structure				-	-	
3	Section 3 Super structure				-	-	
	Grand Total for One Family Pit Latrine and Shower	No.	1		-	-	
	Grand Total for 300 Family Pit Latrines and Showers	No.	300		-	-	