

BOQ FOR PROPOSED CONSTRUCTION OF GENDER INCLUSIVE PUBLIC TOILET AT BAHU & KIGWE MNADANI- BAHU DISTRICT, DODOMA-TANZANIA

S/N	WORKS DESCRIPTION	UNIT	Quantity	RATE	AMOUNT
1	Excavations and Earthworks				-
2	Site clearance of small trees, shrubs and the like including grubbing up roots	m ²	92.70		-
3	Excavate foundation trench in all formations commencing at stripped level 0.69m width and 1m depth, including backfilling	m ³	71.50		-
4	Foundation strip				-
5	230mm concrete grade 15 strip foundation	m ³	16.40		-
6	Foundation works				-
7	Construct 450mm thick stone masonry foundation wall using cement sand mortar in ratio of (1:4) or Cement sand block(Manufactured block 450x230x150 in ration of 1:25 ie, One bag of Cement for 25 blocks only) wall 230 mm thick bounded in c/s mortar ratio 1:4.	m ²	155.40		-
8	Moram, Hardcore & Site sterilization				-
9	Imported filling material well rammed and consolidated in layers thick to make up levels under floor	m ³	19.14		-
10	200mm thick hardcore Bed leveled and blinded with 20mm layer of sand	m ³	18.54		-
11	Oversite Concrete 100mm thick - 15 grade ,Ground Beam and base column - 20 grade				-
12	Provide plain insitu concrete grade 15,with DPM 100mm thick floor slab concrete including ramp and stairs with formwork around the edges	m ³	9.28		-
13	Moisture control				-
14	Hessian based bitumen damp damp proof course to B.S 743 type 'A' 150mm wide laid horizontally on concrete slab before erecting walls	m	110.00		-
15	Ground Beam & Column				-
16	Insitu Reinforced Concrete grade 20 including formwork				-
17	a) 230 x230mm RC Plinth beam, column and raiser slab	m ³	14.72		-
18	Reinforcements				-
19	High tensile round iron bars grade 460 to BS 4449;1964				-
20	a) 16mm diameter bars	kg	140.00		-
21	a) 12mm diameter bars	kg	495.00		-
22	b) 8mm diameter bars	kg	172.00		-
23	c) Binding wire	kg	10.00		-
24	SUPERSTRUCTURE				-
25	Walling				-
26	Sand cement block(Manufactured block 450x230x150 in ration of 1:25 ie, One bag of Cement for 25 blocks only) wall 150 mm thick bounded in c/s mortar ratio 1:3.and Ditto to Gable walling. Ps; lintel beam 150x230mm shall be casted at 2.5m wall length followed by a wall height of 0.5m	m ²	217.39		-

27	ROOFING				-
28	Roof structures and coverings sloping not exceeding 25° from horizontal				-
29	Supply and fixing of IT5 Sheets 28G with approved roofing nails	m ²	150.0		-
30	Roof ridge, hip and valley capping - 28 Gauge resin coat	m	40.0		-
31	Supply and fixing of softwood treated timber				-
32	i) Wall plate 50x150mm	m	42.0		-
33	(ii) Struts and kingpost 100 x 50mm	m	198.0		-
34	ii) Common Rafters and Tie beam 50x150mm	m	200.0		-
35	iii) Purlins 50x75mm	m	45.0		-
36	iv) Fascia board 25x200mm including one coat of wood primer and two finishing coats of gloss oil paint	m	46.0		-
37	Ceiling works				-
38	Provide and fixing of ceiling board framework with fiber tapes and coverings				-
39	a) S/w treated timber branderings 50 x50mm	m ²	80.0		-
40	Pvc board with its fittings provided around the building outside the building	m ²	25.0		-
41	DOORS				-
42	400mm Thick size comprising of top, middle and bottom rails, panel filled in with and including 25 x 75mm vertical tongued and grooved boarding size 1000 x 2500mm complete with frames, iron mongery (UNION ORIGINAL FULLY CYLINDER MORTICE LOCK SET THREE LEVER 16mm burglasss bars, brass hinges -100mm, barrel bolt-150mm, kick plate - 750x200mm, kick plate-1000x200mm, hinges doubles swings-200mm, pushing plate), rubber door stop, bead, high quality timber (Mninga) or other hardwood as it will be approved by Engineer and all necessary finishing including varnish of high quality.				-
43	a) 900 x2500mm	No	11.0		-
44	a) 1100 x2400mm	No	3.0		-
45	WINDOWS				-
46	Toilet grill windows comprising of 25x25mm square pipes and 38mm thick flat bars with wire mesh				-
47	a) 800 x700mm High	No	13.0		-
48	b) 1200 x1500mm High	No	2.0		-
49	FINISHING				-
50	Plastering				-
51	a) 15mm thick sand cement plastering to internal and external walls of the building with lime plaster or of other approved materials in two coats steel trowelled to smooth finish, rendering to stone masonry inclusive	m ²	434.8		-
52	FLOORING				-
53	Cement and sand (1:4) screeds and backings				-
54	a) Apply 40mm thick cement sand backings to receive floor tiles use ratio 1:2. Supply and fix non slip glazed ceramic floor tiles 500x500x8mm with approved adhesive grouting	m ²	92.70		-
55	b) supply and fix skirting tiles 600x150x6mm	m	107.50		-
56	b) supply and fix tiles 250x400x6mm for walls	m ²	81.05		-
57	DECORATION				-
58	Painting work				-
59	Tyrolean render				-
60	Prepare the surface and apply 3-coats of wall putty to internal and external walls of the building, smoothen the walls and apply binder material before painting. This is to be approved by Engineer. Apply 3-coats of approved silk paint to internal walls, 3 coats of weatherguard paint and tyrolean rendering to external walls, and 2 coats of bituminous paint to plinth	m ²	434.8		-
61	Ceiling Finishes				-
62	Skimming using gypsum powder and painted with white color				-
63	9mm thick in gypsum plasterboard; BS 1230 Pt. 2 1970; tapered wallboard; self-tapping with galvanized drive screws; lining nailed to branderings and using of fiber lime including accessories	m ²	67.00		-
64	Supply and fix PVC ceiling including PVC rails, strips and cornices; fixed to timber/wall background corner jointed	m ²	27.60		-
65	Electrical Installation				-
66	Supply, install, test and commission the following:				-
67	"Note that light fittings shall be supplied complete with tubes and lamps; All conduits should include junction box, Elbow, Round box, Round cover, metal box single, metal box twin and coupler with all accessories; all cables should be supplied complete with lugs, glands and shroud":				-

68	Supply and install electrical conduits and socket boxes as per Engineer instruction	LPS	1.00		-
69	Small Power Distribution				-
70	(i) 25mm diameter heavy gauge PVC conduits complete with all accessories concealed underwalls and roof floors from distribution board to all power outlet points	m	90.00		-
71	(ii) 2.5 sqm PVC insulated single core electrical copper cables brown, blue and earth cables from distribution board DBC to all power outlet points	m	230.00		-
72	(iii) 2 x13A twin switch socket outlet complete with back metal box as TR5213 or equal approved	m	8.00		-
73	Inspection chambers.				-
74	Construct waste chambers with dimension of 600mmX600mm internal side with PVC cover	No	7.0		-
75	Supply and install (Hand Washing Basin with sem- pedestal) and its accessories as per Engineers instructions. The costs includes plumbing	No	7.0		-
76	Supply and install Urinal asian type The costs includes plumbing	No	4.0		-
77	Supply and install WC asian type toilet The costs includes plumbing	No	5.0		-

78	Supply and install WC European type toilet complete with Cistern water tank with capacity of 10liters. The costs includes plumbing	No	2.0		-
79	Supply and install Conection devices (IPS and Pex) icluding plumbing of both latrine and connection to water sources with all realted fittings as per Engineer instructions	Item	1.0		-
80	Supply and installation of 3,000 liters water storage tank	Item	1.0		-
81	SOAK AWAY PIT				-
82	Excavation and Earthworks				-
83	Excavate soak pit to receive foundation 5.22x2.94x3.8m as per Government Ministry of health standard; backfill on sides load and cart away surplus from site	m ³	60		-
84	Hardcore bed for excavated pit				-
85	Hardcore bed; levelled and compacted in layers not exceeding 200mm Horizontal	m ²	16.0		-
86	Plain in situ concrete; grade "15" Blinding				-
87	50 mm thick blinding	m ³	0.5		-
88	Walling				-
89	6" Cement & Sand Block - (450x230x150)mm, Block stregth Megapascal - (Mpa) 3.5 and Above.	m ²	80.0		-
90	Concrete work				-
91	Reinforced in situ concrete; grade "15" Including formwork				-
92	150mm suspended slab	m ³	2.5		-
93	Reinforcement				-
94	High yield square twisted steel bar to BS 4461:1969 in any location				-
95	12mm diameter spacing 200mmc/c for slab, foundation beam and ring bam as per Ministry of Health Drawings.	Kg	215.0		-
96	Binding wire	Kg	3.0		-
97	Supply and fix PVC cover 600x600 for service chamber.	No	2.0		-
98	Vent Pipe				-
99	110mm diameter Unplasticised PVC pipe CLASS B and fittings; fixed to suspended slab with all its accessories.	m	18.0		-
100	Plumbing of soak away pit including all chambers to latrine chambers using UPVc class B pipe of 6m length with related accessories required.	item	1.0		-
101	Heavy Duty Alloyed Stainless Steel Balustrade System				-
102	Supply and fix Moen R8960FD flip-up grab bar with a diameter of 1.5" and length of 30" with a toilet paper holder	set	1.00		-
103	CONSTRUCTION OF INCENERATOR				-
104	Excavate foundation trench in all formations commencing at stripped level, including backfilling	m ³	3.5		-
105	Casting of concrete for blinding	m ³	0.15		-
106	Construct 450mm thick foundation wall using Cement sand block(Manufactured block 450x230x150 in ration of 1:25 ie, One bag of Cement for 25 blocks only) wall 230 mm thick bounded in c/s mortar ratio 1:4. (for blocks start foundation with 150mm hardcore followed by 100mm concrete blinding grade 15- nominal mix 1:3:6,15N/mm2 at 28 days). NB. Specify one item during filling the BOQ	m ²	6.5		-
107	Burnt Brick wall 150mm thick (constructed with clay soil internal wall and constructed with fire cement of 5kg bag each for external wall. Chimney inclusive This includes decoration and pointing of external wall.	m ²	15		-
108	Supply and fix heavy metal steel Plate(6mm) & grill door complete with frame(2"x2") for and non corrosive steel plate incinerator size. All metals should be fire resistant and anticorrosive. All material should be aproved by engineers.				-
109	600x900mm	Nr	1		-
110	600x600mm	Nr	1		-
111	200x250mm	Nr	1		-
112	16mm diameter to incinerator	kg	40		-
113	12mm diameter to suspended slab of Incenerator	kg	10		-
114	Concrete for suspended slab grade 20	m ³	0.2		-
115	TOTAL				-
116	ADD 18% VAT				-
117	TOTAL 1				-
118	GRAND TOTAL FOR 2 BLOCKS				-