

2aQ4 STANCE DRAINABLE LATRINE WITH WASHROOM

Q34	Description Of Works	Unit	1q a-	Rate (usd)	Amount (usd)
1	General Preliminaries				
	. Preliminary Particulars				
1,1	Water for works not allowed for in the measured work	L.S	1		
1,2	Site clearance: cut , clear and dump away all the trees, debris and unnecessary materials; excavate the unconsolidated top soil to an average depths of 150mm and proper layout of the building according to plans	L.S	1.0		
	Sub Total				
2	SUBSTRUCTURE (All provisional)				
	Excavations and filling				
2.1	Excavate pit commencing from reduced level but not exceeding 4m depth (pit dimension including allowance: 2.35m-Wide, by 6.95m long by 4m deep) and not less than 1.5m above the water table including all earth work support, keeping the excavation free from water and spreading excavated materials away.	m ³	65. 33		
2.2	Return, fill and ram to make up level average thickness less than 250mm, obtained off site, selected gravel rejects around the pit walls. Load wheel and deposit surplus excavated materials and deposit at distance not less than 1 km from the site as directed by site Engineer	m ³	22. 32		
2.3	Disposal of surplus excavated material on site in spoil heaps, average distance 30m from excavation	L.S	1		
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	Sub-structure for the pit				
	In situ concrete class 20/20mm aggregate (1:3:6 mix):				
2.4	Construct RCC ring foundation beam (latrine foundation) with main Ø12mm bars and stirrups of Ø 6mm at 30cms and a mix ratio of 1:2:4 cement/gravel/sand				
2.5	Foundation trench 200mm thick for the columns and footing of 400mm square	m ³	0.2		
2.6	230x 230mm columns and Beams casted with concrete mix 1:2:4/19mm	m ³	3.3		

2.7	Lining of the pit with select burnt clay bricks bedded and jointed in 1:3 mortar 150mm thick, with and including 25x3 mm hoop iron strips laid horizontally every alternate three courses interconnected to the columns.	m ²	68.9		
	Finishes to the pit				
2.8	13mm cement and sand (1:2mix) trowelled smooth and hard on all brick walls. (plastering the pit)	m ²	68.9		
2.9	25mm cement, sand screed finished smooth to a gentle floor slope towards the manhole and cement grouting/nirow applied properly steel floated.	m ²	7.6		
2.2.1	Application of 3mm thick cement slurry on the walls of the pit steel floated to obtain a mirror surface	m ²	68.9		
	High yield steel bar including working and fixing (Rates inclusive of binding wire)				
2.2.2	Y12 at 150mm centers(both long and shot spans) in. columns and ring beams	kg	403		
2.2.3	R6 links spaced at 200mm c/c for the columns and ring beams(in. tie wire)	kg	74		
2.2.4	3mm binding wire for connections of the steel bars and the stirrups for the columns and ring beams.	kg	30		
	SLAB casting				
2.2.5	Construct a 100mm thick vibrated RCC with BRC –A142 mesh latrine slab extending to corridor using mix 1:2:4 concrete with provisions of the drop holes and manhole.	m ²	13,6		
	Sawn form work as described to:				
2.2.6	230x230mm columns and beams sides	m	46.3		
2.2.7	Soffit/support timber frame of 100mm thick slab	m ²	11		
2.2.8	Edge of slab 100mm high	m	19.1		
	Page 2 to collection				

	Splash Apron/Hallway:				

2.3.1	Excavation for foundation trench 450mm wide not exceeding 1.0m for the apron and the wash room and refill	m ³	4,2		
2.3.2	100mm thick concrete blinding to foundation	m ³	0.7		
2.3.3	150mm thick burnt clay brickwork in cement and sand mortar(1:4)mix in stretcher bond	m ²	7.7		
2.3.4	Return fill and ram selected excavated material around foundation	L.S	1		
2.3.5	Remove surplus excavated material from site and cart at least 30m away from the site	L.S	1		
2.3.6	Backfill imported material to hard core fill in consolidated under apron blinded and well watered and rolled ready to receive concrete 20/20	L.S	1		
2.3.7	150mm thick bed of imported hardcore fill in consolidated under wash room blinded and well watered and rolled ready to receive concrete 20/20	m ²	2		
2.3.8	100mm thick concrete 20/20mm aggregate on a 4mm wire mesh for the apron and wash room (1:2:4)	m ²	14		
2.3.9	25mm cement and sand screed trowled (1:3mix)	m ²	14		
	Anti-Termite Treatment				
2.3.10	Apply "Aldrin" or equivalent and approved anti- termite solution to surface of excavations	ITEM	1		
	Page 3 to collection				
	Page 1, 2, 3 & 4 to summary				

3	SUPERSTRUCTURE.				
	Walling				
3.1	230mm wide Damp proof course laid and bedded in cement and sand mortar 1:3mix with 300mm laps	m	28.6		
3.2	Selected burnt clay bricks bedded and jointed in 1:4 mortar 150mm thick, with and including 25x3 mm hoop iron strips laid horizontally every alternate three courses (inc. urinal, screen and dividing walls)	m ²	76.2		

	Ring Beam				
3.3	Reinforced concrete grade 25/19mm aggregate in ring beam mix 1:2:4 with hope iron placed before beam casting to help hold the wall plate on the wall.	m ³	0.8		
	High yield steel bar including working, fixing and binding wire				
3.4	12mm	kgs	71		
3.5	6mm	kgs	30		
3.6	3mm binding wire for connecting the iron bars and the stirrups.	kgs	15		
3.7	High well burnt clay vent bricks Or cement bricks of ratio 1:3 in cement sand mortar (1:4)	m ²	1.1		
	Superstructure total to collection				
4	ROOFING:				
	Roof structure:(Sawn treated softwood)				
4.1	75x100m wall plate	m	14.8		
4.2	50x100mm rafter	m	10		
4.3	50x75mm purlins	m	27		
4.4	25x230 fascia board in planed cypruss.	m	20		
	Covering:				
4.5	Gauge 28 resin coated corrugated iron sheets fitted using galvanized roofing nails	m ²	18		
4.6	3m long, 100 mm diameter uPVC vent pipe complete with approved fly mesh and cowl, including borings, castings and sealing's	pcs	3		
	VERANDER ALL ROUND THE LATRINE BLOCK				
4.7	450mm×600mm Strip foundation excavation of 400mm from the superstructure wall and filling back.	m ³	6		
4.8	100mm thick concrete blinding to foundation	m ³	1		
4.9	Selected burnt clay bricks bedded and jointed in 1:4 mortar 150mm thick joined/partitioned to the superstructure wall 7 times round the block.	m ²	16		
4.4.1	Back fill the veranda with approved material on the site, properly watered and compacted ready to receive concrete on top.	m ²	8.9		

4.4.2	100mm plain concrete on the veranda with airline provision at a distance of 2m	m ²	8.9		
4.4.3	25mm cement and sand 1:3 screeding wood floated and rendering a cement grouting steel floored to smooth surface.	m ²	25		
	PAINTING Use Sodalines paints or equivalent:				
4.4.4	Knot, prime and apply one under coat and two coats gloss paint on fascia board surface 200-300mm girth	m	20		
	Roofing to collection				
	Page 5 to summary				

5	DOORS				
	Steel doors frames and shutters including locking provision both inside and outside.				
5.1	Frames and steel shutters size 800mmx2100mm high D1	pcs	4		
5.2	Frames and steel shutters size 900mmx2100mm high D2	pc	1		
5.3	Metallic Frames and rail grill shutters 1200mmx2100mm D3	pcs	2		
	Apron rail Steel Door shutters				
5.4	Frames and rail steel shutters size 1500mmx2100mm high	NO	2		
	Iron monger (Supply and fix the following iron monger with matching screws)				
5.5	100mm butt hinges	Pairs	14		
5.6	30mm long galvanized pad bolt and lock	pcs	7		
	PAINTING use sadolin paints or equivalent:				
5.7	Prepare and apply one under coat and two finishing coats of gloss paint on general surface of doors.	m ²	17.9		
5.8	Provide and neatly countersink 20mm x20 mm timber architraves	m	16		
5.9	Provide hinged metal grilles on either side of the latrine with lock to prevent unauthorized use. (use 20 x20 x 2mm SHS)	pcs	2		
	Doors to collection				
6	INTERNAL FINISHES				
6.1	20mm cement and sand (1:4) mortar to walls and beam steel trowelled hard and smooth on walls internally.	m ²	65.3		

6.2	Prepare, prime and apply one under coat and three coats of emulsion paint on plastered walls internally including skirting Of 100mm.	m ²	65.3		
6.3	25mm cement and sand (1:3) screeding rendered to the floor of the stances and followed by cement grouting steel floored to nirow finished smooth surface.Ensure a slop of 1% towards the drop hole.	m ²	8		
6.4	50mm Diameter hand rail as in drawing	pcs	2		
6.5	Provide wooden covers for drop holes complete with handle approved	pcs	5		
6.6	Provide wire mess and coffe tray backing to all the vents and doors with timber brads firmly fixed	m ²	1.1		
	Internal finishes to collection				
	Page 6 to summary				

7	EXTERNAL FINISHES				
7.1	12mm cement and sand render to wall with wood float finish.	m ²	45.8		
7.2	Cement and sand roughcast finish on rendered wall of ratio 1:1.	m ²	27.8		
7.3	Prepare, prime and apply one under coat and 3 coats of emulsion weather guard paint on plastered walls externally.	m ²	45.8		
	Water Supply				
7.4	2000 liters uPVC tank placed on ground concrete base (measured separately) fitted with anti-theft metal bars, complete with 2lockable taps located on the front of the carten wall and the side of the wash room and washout approved	NO	1		
7.5	Install rain water gutter and all its accessories to direct all water from the roof to the water tank placed on 1m high concrete water tank base	NO	1		
7.6	Install 4"PVC pipe with approved floor trap to splash apron for hand washing tanks	NO	1		

7.7	1m high ground concrete water tank base made in masonry brickwork, well compacted with 150mm thick slab on top as directed on site for the tanks as above complete with 1x1m space apron, concealed drain pipe and soak away complete.(inc. metallic lockable burglar proofing metallic grills engraved in concrete for protecting the tank)	NO	1		
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	SUMMARY				
1	Preliminaries				
2	Page 1,2 & 3 (Sub-structure)				
3	Page 4 (Superstructure & roofing)				
4	Page 5 (Doors & Internal finishes)				
5	Page 6 (External finishes &Water supply)				
	Sub total				
	TOTAL (Contract Sum)	NO	2		