4 STANCE DRAINABLE LATRINE WITH WASHROOM

Item	Description Of Works	Unit	Qty	Rate(usd)	Amount(usd)
	General Preliminaries				
	. Preliminary Particulars				
1,1	Water for works not allowed for in the measured works	L.S	1.0		
1,2	Erection and Maintenance of all temporary scaffolding sufficiently strong and efficient for the due performance of the works and when required during the works, and removal on completion and making good works	L.S	1.0		
1,3	Allow for removal and clearing away plants, equipments, rubbish, unwanted materials, unused materials and dirts on completion of works	L.S	1.0		
1,4	Allow for erecting using salvage materials and maintaining on the site contractors' office/store in such a position as may be required	L.S	1.0		
	Sub Total				
1	**SUBSTRUCTURE (All provisional)**				
	Excavations and filling				
a.	Excavate oversite to remove topsoil average 150mm deep and remove from site	M^2	25.0		
b.	Excavate to reduce level & remove from site (provisional)	M^3	15.0		
c	Excavate pit including all earth work support and keeping excavations free from water and mud.	M^3	47.0		
d	Return, fill and ram to make up levelss average thickness less than 250mm, obtained off site, selected gravel rejects around the pit walls	M^3	3.0		
e	Disposal of surplus excated material on site in spoil heaps, average distance 30m from excavation	M^3	4.0		
	Page 1 to collection				

	Brick work				
f	230mm thick selected burnt clay bricks bedded and jointed in 1:4 mortar with and including 25x3mm hoop iron strips laid horizontally every alternate 3 courses	M^2	68.0		
	Finishes to the pit				
g	13mm cement and sand (1:3mix) trawelled smooth and hard on all brick walls.	M^2	68.0		
h	25mm cement,sand screed finished smooth to a gentle floor slope.	M^2	7.5		
	Insitu concrete class 20/20mm aggregate (1:3:6 mix):				
i	Foundation trench 200mm thick	M^3	1.8		
j	150mm thick pit floor bed using mix 1:3:6 mass concrete	M^2	7.5		
k	100mm thick reinforced suspended floor slab using mix 1:2:4 concrete with provisions of the dropholes.	M^2	11.0		
l	230x 230mm columns and beams mix 1:2:4/19mm	M^3	3.4		
	High yield steel bar including working and fixing (Rates inclusive of binding wire)				
m	Y12 at 150mm centres(both long and shot spans) in. columns and ring beams	kg	105.0		
n	R6 links spaced at 200mm c/c for the columns and ring beams(in. tie wire)	kg	45.0		
	Sawn form work as described to:				
o	230x230mm columns and beams sides	LM	90.0		
p	Soffit of 100mm thick slab	M^2	11.0		
q	Edge of slab 100mm high	LM	15.0		
	Page 2 to collection				

	Splash Apron/Hallway:				
a.	Excavation for foundation trench 450mm wide not exceeding 1.0m and refill	M^3	5.0		
b.	100mm thick concrete blinding to foundatuion	M^3	1.0		
c	150mm thick burnt clay brickwork in cement and sand mortar(1:4)mix in stretcher bond	M^2	7.8		
d	Return fill and ram selected excavated material around foundation	M^3	3.0		
e	Remove surplus excavated material from site and cart atleast 30m away from the site	M^3	4.0		
f	Backfill imported material to hard core fill in consolidated under apron blinded and well watered and rolled ready to receive concrete 20/20	M^2	8.0		
g	150mm thick bed of imported hardcore fill in consolidated under apron blinded and well watered and rolled ready to receive concrete 20/20	M^2	6.8		
h	75mm thick plain concrete 20/20mm aggregate	M^2	6.8		
i	25mm cement and sand screed trawled (1:3mix)	M^2	6.8		
j	Sawn timber formwork to the edge of the splash apron 75mm wide	LM	24.0		
	Anti-Termite Treatment				
k	Apply "Aldrin" or equivalent and approved anti-termite solution to surface of excavations	ITEM	1.0		
	Page 3 to collection				
	Page 1, 2 & 3 to summary				

2	**SUPERSTRUCTURE.**				
a.	Reinforced concrete grade 25/19mm aggregate in ring beam mix 1:2:4	M^3	0.5		
	High yield steel bar including working, fixing and binding wire				
	12mm	kg	56.0		
	6mm	kg	12.7		
	Walling				
b	230mm wide Damp proof course laid and bedded in cement and sand mortar 1:3mix with 300mm laps	LM	28.0		
c	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 wall)	M^2	37.0		
d	400X200 mm high well burnt clay vent bricks in cement sand mortor (1:4)	M^2	0.5		
	Superstructure total to collection				
3	**ROOFING:**				
	Roof structure:(Sawn treated softwood)				
a.	75x100m wall plate	LM	13.0		
b.	50x100mm rafter	LM	12.0		
c	50x75mm purlins	LM	22.0		
d	25x230 fascia board in planed cypress.	LM	20.0		
	Covering:				
e	Gauge 28 resin coated corrugated iron sheets fitted using galvanized roofing nails	M^2	18.4		
f	3m long, 100 mm diameter uPVC vent pipe complete with approved fly mesh and cawl, including borings, castings and sealings	NO	3.0		
	PAINTING Use Sadolin paints or equivalent:				
g	Knot, prime and apply one under coat and two coats gloss paint on fascia board surface 200-300mm girth	LM	20.0		
	Roofing to collection				
	Page 4 to summary				

4	**DOORS**				
	Steel doors frames				
a	Frames with louvres; size 800x2400 high	NO	4.0		
b	Frames with r louvres; size 900x2400 high	NO	1.0		
	Steel Door shutters				
c	800x2100mm high	NO	4.0		
d	750x2100mm high	NO	1.0		
	Iron mongery (Supply and fix the following iron mongary with matching screws)				
e	100mm butt hinges	Pairs	10.0		
f	30mm long galvanised pad bolt and lock	NO	6.0		
	PAINTING use sadolin paints or equivalent:				
g	Prepare and apply one under coat and two finishing coats of gloss paint on general surface of doors.	M^2	16.0		
h	Provide and neatly countersink 40 x20 mm timber architraves	LM	26.0		
i	Provide hinged meatal grilles on either side of the latrine with lock to prevent unauthorised use. (use 20 x20 x 1.3mm SHS)	NO	2.0		
	Doors to collection				
5	**INTERNAL FINISHES**				
a.	20mm cement and sand (1:4) mortar to walls and beam steel trowelled hard and smooth on walls internally.	M^2	37.0		
b.	Prepare, prime and apply one under coat and three coats of emulsion paint on plastered walls internally.	M^2	37.0		
c	25mm cement and sand (1:3) screed finished smooth.	M^2	8.0		
d	50mm Diameter hand rail as in drawing	NO	2.0		
e	Provide wooden covers for dropholes complete with handle approved	NO	5.0		
f	Provide wire mess and coffe tray backing to all the vents and doors with timber brads firmly fixed	SM	1.2		
	Internal finishes to collection				
	Page 5 to summary				

6	**EXTERNAL FINISHES**				
a.	12mm cement and sand render to wall with wood float finish.	M^2	37.0		
b.	Cement and sand roughcast finish on rendered wall.	M^2	28.0		
c.	Prepare, prime and apply one under coat and 3 coats of emulsion paint on plastered walls externally.	M^2	16.4		
	Water Supply				
d	2000 litre uPVC tank placed on ground concrete base (measured separately) ,complete with 2lockable taps and washout approved	NO	1.0		
e	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	1.0		
f	Install 4"PVC pipe with approved floor trap to splash apron for hand washing tanks	NO	1.0		
g	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 spash apron, concealed drain pipe and soakaway complete.(inc. metallic lockable burgler proffing metallic grills engraved in concrete for protecting the tank)	NO	1.0		
	Page 6 to summary				
	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**	**6.0**		

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