

GEMA INVESTMENT LTD

BILLS OF QUANTITIES FOR CONSTRUCTION OF 5 STANCE DRAINABLE SEPTIC TOILET WITH WASHING FACILITIES

Item	Description	Amount
	Bill of Quantities: 5 Stance drainable Septic Toilet	
	Proposed Latrine Construction in T4 Life 2nd phase rotary project in Primary School in Bugiri/Municipality District	UGX
	BILL NO. 3 : 5 SYANCES FLASHING TOILETS	
	SUMMARY	
1	SUBSTRUCTURE	17,351,680
2	ROOF	7,280,000
3	EXTERNAL WALLS	3,043,000
4	DOORS	1,809,960
5	INTERNAL FINISHINGS	1,651,000
6	MECHANICAL INSTALLATION	1,290,000
	SUB-TOTAL	32,425,640
	TOTAL BILLS FOR CONSTRUCTION OF 5 STANCE FLASHING TOILETS	32,425,640

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO 1 SUBSTRUCTURE (All Provisional)				
	Site Preparation				
A	Excavate oversite to remove top soil average 250mm thick and remove from site.	m ²	25	10,000	250,000
B	Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee.	m ²	25	10,000	250,000
	Excavation and Earthworks.				
	Note: Rates for excavation to include for keeping excavations free from water and planking and strutting to sides of excavations				
C	Excavate to reduce levels and remove from site.	m ³	24	5,000	120,000
D	Excavate trenches for wall foundations: commencing from reduced levels : not exceeding 1.5m deep .	m ³	12	41,890	502,680
E	Ditto but pit for latrine	m ³	40	2,500	100,000
	Disposal of excavated material				
F	Selected excavated material in filling to foundation trenches : around walling : placed in 200mm layers : watered and compacted to 95% MDD	m ³	30	8,000	240,000
G	Remove surplus excavated material from site	m ³	80	5,000	400,000
	Insitu concrete grade 15 / 20mm aggregate as described.				
H	Foundations in trenches	m ³	10	200,000	2,000,000
	Vibrated , reinforced concrete as described.				
I	150mm thick ground floor slab tamped to fabric reinforcement	m ²	37	15,000	555,000
J	Ramps and Steps	m ³	6	350,000	2,100,000
	Insitu reinforced concrete grade 25 / 20mm aggregate as described.				
K	Ground beam	m ³	4	250,000	1,000,000
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				7,517,680

Item	Description	Unit	Qty	Rate	Amount
	Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports				
L	In suspended slabs	m ²	15	25,000	375,000
M	12mm diameter high tensile bars	kg	54	6,000	324,000
N	8mm diameter round bars	kg	80	6,000	480,000
	sawn treated formwork to:				
O	Ground beam	m ²	13	250,000	3,250,000
P	In steps	m ²	5	10,000	50,000
	Sawn formwork as described to:				
Q	Soffites of suspended slab	m ²	12	20,000	240,000
R	Risers of steps exceeding 75 but not exceeding 150mm high steps	m	19	40,000	760,000
S	Vertical edges of surface bed : over 75mm but not exceeding 150 mm high.	m	21	80,000	1,680,000
	Brickwork in burnt clay bricks in cement and sand mortar (1:3) mix; with and including 25 x 3mm hoop iron strips laid horizontally every alternate course.				
S	200 mm thick Pit walling.	m ²	50	18,000	900,000
	Sundries				
T	One layer 1000 gauge polythene sheet damp proof membrane : Under bed : 300mm laps.	m ²	20	3,000	60,000
	Damp proof courses : Hessian based bituminous felt: bedded in cement and sand (1:4) mortar : 300mm laps.				
U	Horizontal : 150mm ditto	m	21	3,000	63,000
	Plinth wall and splash apron				
V	15mm Thick cement and sand plaster to plinth walls with steel float finish.	m ²	100	5,000	500,000
W	Prepare and apply three coats of black bituminous paint to plastered surfaces.	m ²	121	4,000	484,000
X	75mm (average) thick concrete class 25/18mm aggregate splash apron reinforced with and including formwork and fabric mesh reinforcement ref A98 as before described and all necessary formwork	m ²	10	24,000	240,000
Y	Concrete downstand to ditto size 75 x 125mm deep with and including necessary excavations, formwork and disposal of surplus soil.	m	21	8,000	168,000
Z	25mm thick cement and sand (1:3) paving on splash apron wood float finish	m ²	13	20,000	260,000
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				9,834,000

Item	Description	Unit	Qty	Rate	Amount
	<u>COLLECTION</u>				
	Page 2 of 9				7,517,680
	Page 4 of 9				9,834,000
	5 STANCE LINED FLASHING TOILETS Total Carried to Collection				17,351,680

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 2 ROOF				
	Roof Construction				
	The following in roof construction including hoisting and fixing approximately 3.0mm above ground level.				
	Sawn cypress pressure impregnated with preservative:-				
A	50 x 100mm Purlins	m	42	50,000	2,100,000
B	50 x 150mm Rafters	m	20	30,000	600,000
C	100 x 75mm Wall Plate	m	15	30,000	450,000
	Roof Covering				
D	IT4 Guage 28 pre-painted iron roofing sheets fixed with 11/2 side overlaps and 150mm end laps with and including approved roofing nails or galvanized steel drive screws with plastic washers to manufacturer's instructions.	m ²	30	100,000	3,000,000
	Eaves				
E	25 x 225mm Wrot Cypress fascia board	m	22	40,000	880,000
	Painting				
	Knot prime stop and apply three coats of gloss oil paint to timber surfaces.				
F	Knot, prime, stop and apply three coats of gloss oil paint to wood fascia 200-300mm girth.	m	25	10,000	250,000
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				7,280,000

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 3 EXTERNAL WALLS				
	Brickwork in burnt clay bricks in cement and sand mortar (1:3) mix; with and including 25 x 3mm hoop iron strips laid horizontally every alternate course.				
A	150mm thick walling reinforced with and including 25 x 3mm hoop iron strips laid horizontally every alternate course.	m ²	60	5,000	300,000
B	Extra over for 230 x 230 x 2300mm high brick piers	no	6	20,000	120,000
	External wall Finishes				
	Cement and sand (1:4) render trowelled smooth on concrete or masonry				
C	15mm to walls.	m ²	61	28,000	1,708,000
	Two coats tyrolene rendering on:				
D	Walls and concrete surfaces	m ²	61	15,000	915,000
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				3,043,000

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 4 DOORS				
	Concrete Work				
	Precast concrete Class 28/12mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary formwork and hoisting and fixing in position.				
A	150 x 230 mm high	m	4	30,000	120,000
	Wrot Mahogany : selected and kept clean.				
B	45mm thick framed door size 850 x 2075mm high comprising 45 x 125mm stiles, top, bottom and middle rails filled in with 100mm wide tongued and grooved battens all to Architects details.	no	4	240	960
C	Ditto size 1100 x 2050mm high	no	1	280,000	280,000
D	25 x 50mm Architrave	m	22	30,000	660,000
E	50 x 150mm Door Frame: two labours : plugged Supply and fix the following ironmongery of "UNION" Manufacture and to Architects approval complete with matching fixings to hardwood or steel	m	25	10,000	250,000
F	Butt Hinges, 75 x 100mm : heavy duty : finished stainless steel.	prs	8	4,000	30,000
G	Purpose made padbolt 150mm long. Prepare, knot prime, stop and apply three coats of gloss oil paint: on woodwork.	no	5	8,000	40,000
H	General Surfaces : doors	m ²	23	8,000	184,000
I	Ditto : over 200 but not exceeding 300mm girth	m	25	3,500	87,500
J	Prime back of frame before fixing.	m	25	6,300	157,500
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				1,809,960

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 6 INTERNAL FINISHES				
	Floor Finishes Cement and sand (1:4) screeds and pavings : one coat: steel trowel finish : laid on concrete				
A	25mm thick paving.	m ²	15	5,000	75,000
	Wall Finishes Internal cement and sand plaster : steel trowel finish				
B	15mm thick to Walls.	m ²	52	18,000	936,000
	Painting				
C	Prepare and apply one undercoat and three finishings coats of matt vinyl paint to plastered surfaces.	m ²	52	5,000	260,000
D	Ditto but three coats of gloss oil paint.	m ²	52	5,000	260,000
	Soil and vent pipes				
E	100mm diameter uPVC soil and vent pipe 3500mm high with and including wire balloon grating.	no	2	60,000	120,000
	5 STANCE LINED FLASHING TOILETS				
	Total Carried to Collection				1,651,000

Item	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 7 MECHANICAL INSTALLATION				
	Drainage				
A	PVC Gully Trap	No.	1	50,000	50,000
B	Floor Trap as ARMITAGE SHANKS complete with all accessories	no	1	80,000	80,000
C	110mm PVC heavy gauge pipework buried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories.	m	10	80,000	800,000
D	Soak Pit Size approx. 2500mm on top tapering to 1500mm and depth of 1500mm complete with hardcore and all accessories.	no	1	80,000	80,000
E	Construct an inspection chamber 500 x 600mm including: 50mm thick pre-cast concrete cover with 2NO. Mild steel Lifting rings 8mm diameter bar	Item	1	280,000	280,000
	5 STANCE LINED FLASHING TOILETS Total Carried to Collection				1,290,000