

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT 01</u></b>				
	<b><u>SUBSTRUCTURES (All provisional)</u></b>				
	<b><u>Excavations to Reduce Levels &amp; Hardcore pit</u></b>				
A	Excavate vegetable top soil average 150 mm deep and Cart away debris as directed.	48	sm		
	<b><u>Pit Excavation</u></b>				
B	Excavate pit commencing stripped level n.e 1.5m de	12	cm		
C	Ditto exceeding 1.5 b.n.e 3.0m	8	cm		
D	Extra over for excavation in rock	14	cm		
	<b><u>Hardcore Filling</u></b>				
E	300mm thick approved hardcore filling consolidated and rolled in layers not exceeding 150mm thick	21	cm		
	<b><u>Murram Blinding</u></b>				
F	50mm thick murram blinding to surfaces of hard-core with approved fine inert material.	56	sm		
	<b><u>Anti termite treatment</u></b>				
G	"Termidor" or equal Insecticide treatment to surface of blinding with 10 year guarantee	56	sm		
	<b><u>DPM</u></b>				
H	500 gauge polythene sheet in dpm	56	sm		
	<b><u>Lean concrete (1:4:8) in:-</u></b>				
I	50mm thick blinding	1	cm		
	<b><u>Vibrated Concrete Class 20/20 (1:2:4), Levelled to approval in :-</u></b>				
J	150mm thick floor slab including steps.	23	sm		
K	Mass concrete class 20/20 (1:2:4) to foot bath and dry race	32	sm		
	<b><u>Formwork</u></b>				
L	sawn cypress formwork 25mm thick to Edge of slab 150 mm wide.	64	Lm		
M	To risers stairs	26	Lm		
	<b><u>Carried to Summary</u></b>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT01</u></b>				
	<b><u>Substructure Cont:</u></b>				
	<b><u>Foundation Walling</u></b>				
A	200mm rough dressed quarry stone walling bedded and jointed in cement sand mortar (1:3) and reinforced with 16gauge hoop iron	68	SM		
	<b><u>Steel Fabric Reinforcement</u></b>				
B	B.R.C Mesh Reinforcement type A142 weighing 2.22 KG/SM with minimum 300 mm end and side laps.	68	sm		
	<b><u>Reinforcements</u></b>				
	Square twisted high yield steel Reinforcement bars include tying wires and spacer blocks				
C	10mm diameter	32	Kgs		
D	8mm diameter	22	Kgs		
	<b><u>Total Carried to collection</u></b>				
	Total Brought from Page 01				
	Brought from above				
	<b><u>Carried to Summary</u></b>				

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>ELEMENT 02</u></b>					
<b><u>Superstructure</u></b>					
<b><u>Superstructure Walling</u></b>					
A	200mm thick natural stone walling bedded and jointed in cement sand mortar (1:3) and hoop iron 25mm wide gauge 16 at every alternate course	68	sm		
<b><u>Fencing</u></b>					
B	100x50m sawn cypress well seasoned timber as horizontal members including nailing to vertical members	186	lm		
C	150mm diameter 2400mm high well treated gum poles at 3000mm centres with and to be fixed firm in 450mm deep hole using reinforced concrete ratio (1:3:6)	72	No		
<b><u>Carried to Summary</u></b>					

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT 04</u></b> <b><u>Roofing and Rain Water Goods</u></b>				
	<b><u>Roof covering</u></b>				
A	Approved pre-painted galvanised ironsheets gauge 28,complete with assorted roofing nails and rubber to S.E Specs	58	SM		
	<b><u>Timber Members</u></b>				
	<u>All structural timber to be second grade sawn and planed celcured cypress to approval.</u>				
A	Ties and struts 100x50mm	48	Lm		
B	Kingposts 150x50mm	23	Lm		
C	Tie beams 150x50mm	32	Lm		
D	Rafters 150x50mm	51	Lm		
E	Purlins 75x50mm	214	Lm		
F	Wall plate 100x50mm	27	Lm		
	<b><u>Bolts</u></b>				
G	150mm long;12mm brass tower bolts complete with nuts and washers on wallplate at 1200mm centres	24	No		
	<b><u>Carried to Summary</u></b>				

**BILL OF QUANTITIES**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
<b><u>ELEMENT 05</u></b>		
<b><u>Provisional &amp; Prime Cost sums</u></b>		
<b><u>Water Reservoir</u></b>		
A	Provide 1 No. 2300 litre rectangular water Tank Mounted on the roof with its piping connection	
B	Provision for livestock watering trough to be Directed by the P.M	
C	Construct a Dip Tank Filling with clean Water	
D	Provide for signage and sign board erection	
<b><u>Carried to Summary</u></b>		

### BILL OF QUANTITIES

ITEM	DESCRIPTION	AMOUNT
<b><u>Dip Building Summary</u></b>		
A	ELEMENT01:Substructure	
B	ELEMENT 03:Walling Superstructure	
C	ELEMENT 04:Roofing and Rainwater goods	
D	ELEMENT 05: Provisional and Prime Cost Sums	
	SUB TOTAL	

**TWO DOOR PIT LATRINE**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT 01</u></b>				
	<b><u>SUBSTRUCTURES</u></b>				
	<b><u>Site clearance</u></b>				
A	Clear site to remove shrubs, small trees and other vegetation and grub roots and C.A debris	6	SM		
	<b><u>Excavations for Pit</u></b>				
	<b>All excavations deemed provisional and any other materials of rock nature encountered will have to be quantified and approved by the PM.</b>				
B	Excavations to reduce levels 150mm deep	6	SM		
C	Excavations for Pits 0 to 1.5m & deposit as directed	9	CM		
D	Ditto exceeding 1.5 m but n.e 3.0m	9	CM		
E	Ditto exceeding 3.0m but n.e 4.5m	9	CM		
F	Ditto exceeding 4.5 m but n.e 6.0m	9	CM		
G	Ditto exceeding 6.0 m but n.e 7.5m	9	CM		
H	Ditto exceeding 7.5 m but n.e 9.0m	9	CM		
I	Ditto exceeding 9.0 m but n.e 10.5m	9	CM		
J	Ditto exceeding 10.5 m but n.e 12.0m	9	CM		
K	Excavations to receive concrete footing and walling 600mm wide	8	CM		
L	Excavations to receive hardcore filling and murrum blinding 300mm wide	2	CM		
M	Extra over for excavation in rock	8	cm		
	<b><u>Backfilling</u></b>				
N	Return fill and ram in selected excavated material around foundation wall sides 200 mm	3	CM		
	<b><u>Hardcore Filling</u></b>				
O	250mm thick approved hardcore filling consolidated and rolled in layers not exceeding 150mm thick around foundation.	2	CM		
	<b><u>Total for page 1 to Substructure Summary</u></b>				

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<b>Murram Blinding</b> 50mm thick murram blinding to surfaces of hard-core with approved fine inert material.	8	SM		
B	<b>Anti termite treatment</b> "Termidor" or equal Insecticide treatment to surface of blinding with 10 year guarantee	8	SM		
C	<b>Lean concrete (1:4:8) in:-</b> 50mm thick blinding under strip foundations.	1	CM		
D	<b>Concrete Class 20/20 (1:2:4) in ; vibrated and made good to:-</b> 100 mm thick floor slab.	8	SM		
E	200x600mm wide strip foundation concrete footing	2	CM		
F	<b>Steel Fabric Reinforcement</b> weighing 2.22 KG/SM ref A142 with minimum 300 mm end and side laps.(measured nett)	8	SM		
G	<b>Sawn Formwork to;</b> Edge of slab 150 mm wide.	13	LM		
H	To soffits of slab	6	SM		
I	<b>Foundation Walling</b> 200mm stone walling bedded and jointed in cement sand mortar (1:3) and made good				
J	<b>DPM</b> 1000 gauge damp proof membrane laid with minimum 300 mm side and end laps	8	SM		
K	<b>DPC</b> 200 mm wide,hessian based three ply bituminous based damp proof course on walls	14	LM		
	<b>Total for Page 02 to collection</b>				
	<b>Total for page 1 to collection</b>				
	<b>Brought down from above</b>				
	<b>Carried to Summary</b>				

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT 02</u></b>				
	<b><u>WALLING SUPERSTRUCTURE</u></b>				
	<b><u>Brick walling</u></b>				
A	Brick walling fair faced bedded and jointed in mortar and recessed and pointed on one side in cement sand mortar (1:3) to approval.				
B	200mm thick wall reinforced with hoop iron gauge 16 at every alternate course	24	SM		
	<b><u>Ring beam</u></b>				
	<b><u>Concrete work</u></b>				
C	Vibrated concrete class 20/20 to beams	1	CM		
	<b><u>Reinforcements a.b.d</u></b>				
	High tensile square twisted reinforcement bars including tying wires and spacer blocks				
D	10mm Diameter	34	KG		
E	8mm Diameter	30	KG		
	<b><u>Formwork</u></b>				
F	Sides of beams 300 mm wide.	6	SM		
	<b><u>Superstructure Walling to Summary</u></b>				

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT 03</b>				
	<b><u>WINDOWS</u></b>				
	<u>Supply and fix standard heavy duty steel casement windows with fasteners and stays complete without grills in standard z section framing to receive glazing m.s</u>				
A	Window size 600x600mm high	2	NO		
B	Prepare and apply three coats Gloss oil paint to metal surfaces and window cills externally	2	SM		
	<b><u>Glazing</u></b>				
C	4mm thick clear sheet glazing to panes 0.1-0.5 sm with putty	2	SM		
	<b><u>Window cills</u></b>				
D	300mm wide,600mm long 50mm thick insitu cast window cills to approval with 5mm diameter throat at the soffit edge of ditto fixed with mortar 1:3 to approval and painted m.s	1	LM		
	<b><u>Paint to ditto</u></b>				
E	3 coats gloss oil paint to ditto	1	SM		
	<b><u>Carried to Summary</u></b>				

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT 04</b>				
	<b><u>DOORS</u></b>				
	Semi Solid core flush door;45 mm thick,lipped				
A	Ditto 900x2050 high	2	NO		
B	100x50mm door frame plugged with 4 labours	6	LM		
C	50x25mm Architrave	6	LM		
	<b><u>Ironmongery</u></b>				
D	100mm steel butt hinges to approval	3	Prs		
E	2 -lever mortice lock complete with furniture as "UNION" or equivalent	2	NO		
	<b><u>Painting</u></b>				
F	3 coats Gloss oil paint to surface of timber door internally	3	SM		
G	Ditto externally	3	SM		
H	Ditto surface not exceeding 100mm for timber door frames	6	LM		
	<b><u>Rubber Door Stops</u></b>				
I	Rubber Door stoppers plugged to floor with 38mm diameter 59mm deep catalogue no 8400 including 32mm deep iron lug plugged to floor	2	NO		
	<b><u>Carried to Summary</u></b>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT 05</u></b>				
	<b><u>FINISHES</u></b>				
	<b><u>Floor</u></b>				
A	12mm Thick coloured cement sand screed mix 1:3 finished to approval	6	SM		
	<b><u>Walling</u></b>				
	<b><u>Internally and external gables faces</u></b>				
B	12mm thick Gauged plaster.	28	SM		
C	Prepare and apply undercoat and three coats gloss oil paint on plastered surface.	28	SM		
	<b><u>Externally</u></b>				
D	Chisel and form key to horizontal & vertical joint	2	SM		
	<b><u>Raking Cutting</u></b>				
E	Raking Cutting to gable walling and made good	5	LM		
	<b><u>Plinths</u></b>				
F	Render and set 12 mm thick cement and sand mortar mix 1:3 and made good	4	SM		
G	Prepare and apply three coats gloss emulsion paint to ditto.	4	SM		
	<b><u>Stack pipe</u></b>				
H	100mm diameter UPVC stack pipe a fixed to floor slab and protruding through the roof structure	7	LM		
	<b><u>Carried to Summary</u></b>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><b><u>ELEMENT 06</u></b>  <b><u>ROOFING &amp; RAINWATER GOODS</u></b>  <b><u>Roof sheets</u></b>                      28 gauge prepainted GCI sheets including nails and rubber washers</p> <p><b><u>Timber Members</u></b>  <b><u>All structural timber to be second grade sawn and planed celcured cypress to approval.Consider that members are taken uniform hence summaried as one owing to the magnitude of the project</u></b></p>	12	SM		
B	100x50mm rafters,purlins and wall plates	23	LM		
	<b><u>Carried to Summary</u></b>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>BUILDING WORK SUMMARY FOR PIT LATRINE</u></b>				
A	Substructure				
B	Walling Superstructure				
C	Windows				
D	Doors				
E	Finishes				
F	Roofing and Rainwater goods				
<b>TOTALS FOR PIT LATRINE</b>					

**BILL OF QUANTITIES**

ITEM	DESCRIPTION	AMOUNT
<b>GRAND SUMMARY</b>		
A	Dip Building Summary	
B	Pit Latrine summary	
C	SUB TOTALS	
D	Contigencies	<b>100,000.00</b>
E	Project Management	<b>50,000.00</b>
	GRAND TOTAL	

**GRAND TOTAL CARRIED TO FORM OF TENDER**

**\* Note that prices quoted are inclusive of all taxes**

CONTRACT PERIOD..... WEEKS

CONTRACTOR'S NAME.....

ADDRESS.....

SIGN.....

DATE.....

STAMP.....