

BILL OF QUANTITIES

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|---|-----|------|------|--------|
| | <u>ELEMENT 01</u> | | | | |
| | <u>SUBSTRUCTURES (All provisional)</u> | | | | |
| | <u>Excavations to Reduce Levels & Hardcore pit</u> | | | | |
| A | Excavate vegetable top soil average 150 mm deep and Cart away debris as directed. | 48 | sm | | |
| | <u>Pit Excavation</u> | | | | |
| 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 | | |
| | <u>Hardcore Filling</u> | | | | |
| E | 300mm thick approved hardcore filling consolidated and rolled in layers not exceeding 150mm thick | 21 | cm | | |
| | <u>Murram Blinding</u> | | | | |
| F | 50mm thick murram blinding to surfaces of hard-core with approved fine inert material. | 56 | sm | | |
| | <u>Anti termite treatment</u> | | | | |
| G | "Termidor" or equal Insecticide treatment to surface of blinding with 10 year guarantee | 56 | sm | | |
| | <u>DPM</u> | | | | |
| H | 500 gauge polythene sheet in dpm | 56 | sm | | |
| | <u>Lean concrete (1:4:8) in:-</u> | | | | |
| I | 50mm thick blinding | 1 | cm | | |
| | <u>Vibrated Concrete Class 20/20 (1:2:4), Levelled to approval in :-</u> | | | | |
| 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 | | |
| | <u>Formwork</u> | | | | |
| L | sawn cypress formwork 25mm thick to Edge of slab 150 mm wide. | 64 | Lm | | |
| M | To risers stairs | 26 | Lm | | |
| | <u>Carried to Summary</u> | | | | |

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

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| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|--------------------------------------|--|-----|------|------|--------|
| <u>ELEMENT 02</u> | | | | | |
| <u>Superstructure</u> | | | | | |
| <u>Superstructure Walling</u> | | | | | |
| 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 | | |
| <u>Fencing</u> | | | | | |
| 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 | | |
| | | | | | |
| <u>Carried to Summary</u> | | | | | |

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| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|--|-----|------|------|--------|
| | <u>ELEMENT 04</u> <u>Roofing and Rain Water Goods</u> | | | | |
| | <u>Roof covering</u> | | | | |
| A | Approved pre-painted galvanised ironsheets gauge 28,complete with assorted roofing nails and rubber to S.E Specs | 58 | SM | | |
| | <u>Timber Members</u> | | | | |
| | <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 | | |
| | <u>Bolts</u> | | | | |
| G | 150mm long;12mm brass tower bolts complete with nuts and washers on wallplate at 1200mm centres | 24 | No | | |
| | <u>Carried to Summary</u> | | | | |

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| ITEM | DESCRIPTION | AMOUNT |
|---|--|--------|
| <u>ELEMENT 05</u> | | |
| <u>Provisional & Prime Cost sums</u> | | |
| <u>Water Reservoir</u> | | |
| 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 | |
| <u>Carried to Summary</u> | | |

BILL OF QUANTITIES

| ITEM | DESCRIPTION | AMOUNT |
|------------------------------------|---|--------|
| <u>Dip Building Summary</u> | | |
| 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 |
|------|---|-----|------|------|--------|
| | <u>ELEMENT 01</u> | | | | |
| | <u>SUBSTRUCTURES</u> | | | | |
| | <u>Site clearance</u> | | | | |
| A | Clear site to remove shrubs, small trees and other vegetation and grub roots and C.A debris | 6 | SM | | |
| | <u>Excavations for Pit</u> | | | | |
| | All excavations deemed provisional and any other materials of rock nature encountered will have to be quantified and approved by the PM. | | | | |
| 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 | | |
| | <u>Backfilling</u> | | | | |
| N | Return fill and ram in selected excavated material around foundation wall sides 200 mm | 3 | CM | | |
| | <u>Hardcore Filling</u> | | | | |
| O | 250mm thick approved hardcore filling consolidated and rolled in layers not exceeding 150mm thick around foundation. | 2 | CM | | |
| | <u>Total for page 1 to Substructure Summary</u> | | | | |

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

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|------|---|-----|------|------|--------|
| | <u>ELEMENT 02</u> | | | | |
| | <u>WALLING SUPERSTRUCTURE</u> | | | | |
| | <u>Brick walling</u> | | | | |
| 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 | | |
| | <u>Ring beam</u> | | | | |
| | <u>Concrete work</u> | | | | |
| C | Vibrated concrete class 20/20 to beams | 1 | CM | | |
| | <u>Reinforcements a.b.d</u> | | | | |
| | High tensile square twisted reinforcement bars including tying wires and spacer blocks | | | | |
| D | 10mm Diameter | 34 | KG | | |
| E | 8mm Diameter | 30 | KG | | |
| | <u>Formwork</u> | | | | |
| F | Sides of beams 300 mm wide. | 6 | SM | | |
| | <u>Superstructure Walling to Summary</u> | | | | |

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|------|--|-----|------|------|--------|
| | ELEMENT 03 | | | | |
| | <u>WINDOWS</u> | | | | |
| | <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 | | |
| | <u>Glazing</u> | | | | |
| C | 4mm thick clear sheet glazing to panes 0.1-0.5 sm with putty | 2 | SM | | |
| | <u>Window cills</u> | | | | |
| 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 | | |
| | <u>Paint to ditto</u> | | | | |
| E | 3 coats gloss oil paint to ditto | 1 | SM | | |
| | <u>Carried to Summary</u> | | | | |

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| | ELEMENT 04 | | | | |
| | <u>DOORS</u> | | | | |
| | 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 | | |
| | <u>Ironmongery</u> | | | | |
| D | 100mm steel butt hinges to approval | 3 | Prs | | |
| E | 2 -lever mortice lock complete with furniture as "UNION" or equivalent | 2 | NO | | |
| | <u>Painting</u> | | | | |
| 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 | | |
| | <u>Rubber Door Stops</u> | | | | |
| 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 | | |
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| | <u>ELEMENT 05</u> | | | | |
| | <u>FINISHES</u> | | | | |
| | <u>Floor</u> | | | | |
| A | 12mm Thick coloured cement sand screed mix 1:3 finished to approval | 6 | SM | | |
| | <u>Walling</u> | | | | |
| | <u>Internally and external gables faces</u> | | | | |
| B | 12mm thick Gauged plaster. | 28 | SM | | |
| C | Prepare and apply undercoat and three coats gloss oil paint on plastered surface. | 28 | SM | | |
| | <u>Externally</u> | | | | |
| D | Chisel and form key to horizontal & vertical joint | 2 | SM | | |
| | <u>Raking Cutting</u> | | | | |
| E | Raking Cutting to gable walling and made good | 5 | LM | | |
| | <u>Plinths</u> | | | | |
| 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 | | |
| | <u>Stack pipe</u> | | | | |
| H | 100mm diameter UPVC stack pipe a fixed to floor slab and protruding through the roof structure | 7 | LM | | |
| | <u>Carried to Summary</u> | | | | |

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|------|--|-----|------|------|--------|
| | <u>ELEMENT 06</u> | | | | |
| | <u>ROOFING & RAINWATER GOODS</u> | | | | |
| | <u>Roof sheets</u> | | | | |
| A | 28 gauge prepainted GCI sheets including nails and rubber washers | 12 | SM | | |
| | <u>Timber Members</u> | | | | |
| | <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 | 100x50mm rafters,purlins and wall plates | 23 | LM | | |
| | <u>Carried to Summary</u> | | | | |

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|-------------------------------|---|-----|------|------|--------|
| | <u>BUILDING WORK SUMMARY FOR PIT LATRINE</u> | | | | |
| A | Substructure | | | | |
| B | Walling Superstructure | | | | |
| C | Windows | | | | |
| D | Doors | | | | |
| E | Finishes | | | | |
| F | Roofing and Rainwater goods | | | | |
| TOTALS FOR PIT LATRINE | | | | | |

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| ITEM | DESCRIPTION | AMOUNT |
|----------------------|----------------------|-------------------|
| GRAND SUMMARY | | |
| A | Dip Building Summary | |
| B | Pit Latrine summary | |
| C | SUB TOTALS | |
| D | Contigencies | 100,000.00 |
| E | Project Management | 50,000.00 |
| | 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.....