

## BILL OF QUANTITIES

### Accommodation 1

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 01</b>					
<b><u>EARTH WORKS</u></b>					
<b>1.1 <u>SITE CLEARING</u></b>					
(1)	site.	1.00	item		-
<b>1.2 <u>EXCAVATION</u></b>					
	Note: Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork/shuttering and dewatering the trenches for the required days.				
(2)	Excavation for foundation beams	7.07	m <sup>3</sup>		-
<b>1.3 <u>WATER PROOFING</u></b>					
	Heavy duty polyethylene sheet damp proof membrane (1000 gauge) laid on blinding layer.				
	Note: Rates shall include for: dressing around and sealing to avoid all penetrations				
(1)	Damp proof membrane under tie beams beams	76.20	m		-
(2)	Apply 2 coats of Brush Bond or similar on all concrete surfaces below ground level in accordance with manufacturer's	1.00	item		-
<b>1.4 <u>EARTH FILLING</u></b>					
	Rates shall include for levelling, grading, trimming and				
(1)	Back filling	12.61	m <sup>3</sup>		-
(2)	300mm thk hardcore	49.83	m <sup>3</sup>		-
<b>1.5 <u>CLEANING UPON COMPLETION</u></b>					
(1)	Cleaning the site upon completion of all works	1.00	item		-
<b>BILL No: 01 - EARTH WORKS, 'TOTAL OF BILL No: 01 - Carried over to summary</b>					<b>0.00</b>
<b>BILL No: 02</b>					
<b><u>CONCRETE</u></b>					
	(a) Rates shall include for: provision to place in position; casting of all required items and finishing after removal of formwork and additional concrete required to conform to				
	(b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc.				

(c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume

(d) RHEOMAC 707" or equivalent concrete admixture shall be added to all concrete elements as per manufacturers instruction and specification.

**2.1 LEAN CONCRETE**

Note: Quantity is measured to the edges of concrete members. Rates shall be inclusive of any additional concrete required to place the formwork.

(1) 50mm thick lean screed to bottom of foundation beams.

22.86

m2

-

**2.2 REINFORCED CONCRETE**

In-situ reinforced concrete to:

**2.2.1 Foundation level**

(1) Foundation beams

4.71

m<sup>3</sup>

-

**2.2.2 Ground Floor**

(1) Columns

1.76

m<sup>3</sup>

-

(2) Floor slab 75mm thick

7.42

m<sup>3</sup>

-

(4) Lintel and sill beams (200mmX150mm) on all doors, windows & mid wall beam

1.00

item

-

**2.2.3 Roof**

(1) Attached beams

4.71

m<sup>3</sup>

-

**2.3 FORMWORK**

(a) Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes and removal of formwork.

**2.3.1 Foundation level**

(1) Foundation beams

46.45

m2

-

**2.3.2 Ground Floor**

(1) Columns

44.59

m2

-

(2) Lintel and sill beams (200mmX150mm) on all doors, window & midwall beam

1.00

item

-

2.3.3	<b><u>Roof</u></b>				
(1)	Attached beams	46.45	m2		-
2.4	<b><u>REINFORCEMENT</u></b>				
	(a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and chair supports, laps and wastage				
	(b) All reinforcing bars except 6mm dia bars shall be high strength deformed bars				
	(c) The exact length exclusive of laps are given. The rates shall take into account laps and any wastage.				
2.4.1	<b><u>Foundation</u></b>				
(1)	12 mm dia. bars in foundation beams	319.68	kg		-
(2)	6 mm dia. bars in foundation beams	53.28	kg		-
2.4.2	<b><u>Ground Floor</u></b>				
(1)	12mm dia. bars in columns	186.48	kg		-
(2)	6 mm dia. bars in columns	26.64	kg		-
(3)	6 mm dia. bars in ground slab @ 150mm c/c	199.50	kg		-
(4)	Lintel and sill beams reinforcement as per drawings	1.00	item		-
2.4.3	<b><u>Roof</u></b>				
(1)	12 mm dia. bars in roof beams	319.68	kg		-
(2)	6 mm dia. bars in roof beams	53.28	kg		-
<b>BILL No: 02 - CONCRETE</b>					
<b>TOTAL OF BILL No: 02 - Carried over to summary</b>					<b>0.00</b>
<b>BILL No: 03</b>					
<b><u>MASONRY AND PLASTERING</u></b>					
(a) Mix ratio for Plastering & masonry shall be 1:4.with river sand OPC cement					
3.1	<b><u>SOLID BLOCK WORK 150 MM THK</u></b>				
(1)	External wall	111.48	m <sup>2</sup>		-
3.2	<b><u>HOLLOW BLOCK WORK 100 MM THK</u></b>				
(1)	Internal wall	167.22	m <sup>2</sup>		-

<b>3.3 <u>PLASTERING</u></b> 15mm thk for interior, 20mm thk for exterior plastering on walls and concrete surfaces.				
(1) Ground floor				
Interior	193.55	m <sup>2</sup>		-
Exterior	334.45	m <sup>2</sup>		-
<b>3.4 <u>FLOOR SCREED</u></b> 50mm thk,1:4 cement sand screeding on the floor to receive floor paint as described				
(1) General floor	177.56	m <sup>2</sup>		-

**BILL No: 03 - MASONRY AND PLASTERING**

**TOTAL OF BILL No: 03 - Carried over to summary**

**0.00**

**BILL No: 04**

**METAL WORKS/WOOD WORKS**

Note: (a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts including those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws.

(b) Rates shall include for all painting and finishing.

(c) Rates shall include for fabrication and erection of temporary supports and fixing into position

(d) Rates shall include for the application of one coat redoxide to all welded joints and application of single coat aluminium paint on all GI pipes.

**4.1 RACKS / COUNTERS**

Kitchen counter (2'.10" x 18' ) granite finish on top.Rates shall include,shelves , internal fomica finsh and completion all necessary works. Rates shall include SS Sink and water connection as described

(1) kitchen counter

1.00

nos

-

**BILL No: 04 - METAL WORKS**

**TOTAL OF BILL No: 04 - Carried over to summary**

**0.00**

**BILL No: 05****CEILING****5.1 SUSPENDED CEILING**

(1) External(Eaves and toilets)	39.76	m <sup>2</sup>	-
(2) Internal	219.62	m <sup>2</sup>	-

**BILL N0: 05 - CEILINGS****TOTAL OF BILL No: 05 - Carried over to summary****0.00****BILL N0: 06****DOORS AND WINDOWS**

Notes: (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.

(b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boarding, framing, lining, fastenings and all fixings

(c) Rates shall include for finishing

All aluminium doors should be white powder coated finish .  
Door panel should be filled with rockwool as described

**6.1 DOORS AND WINDOWS**

(1) D1 (Treated Timber )	8.00	nos	-
(2) D2 (Aluminium panel door )	8.00	nos	-
(3) D3 (Aluminium slide door)	1.00	nos	-
(4) W1 (Aluminium swing window)	5.00	nos	-
(5) V1 (Aluminium louvered window)	8.00	nos	-

**BILL NO: 07**

**FINISHES**

Note: (a)Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.

(b) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door window furniture

**7.1 FLOOR / WALL FINISHES**

Note: Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.Allow for tile adhesive for wall and floor tiling

(1)	600x600mm matt porcelain tiles on Rooms, Sitting room, Kitchen and Dining room area	125.00	m <sup>2</sup>	-
(2)	300x300mm matt Ceramic tiles on toilet floor	42.55	m <sup>2</sup>	-
(3)	300x450mm Ceramic tiles on toilet wall @ 2.5m	165.50	m <sup>2</sup>	-

7.1.1

**Tile skirting**

(1)	Tiles skirting between wall and floor as specified			
(2)	Interior	235.00	m	-

**7.2 PLASTERBOARD CONICE/TIMBER BORDER**

Supply and installation of plasteredboard cornice for internal and external should be 75mm x 25mm wooden border to all edges between walls and ceiling soffits.

(1)	Ground floor			
	Interior	152.00	m	-
	Exterior	54.00	m	-

<b>BILL No: 07 - FINISHES</b>				
<b>TOTAL OF BILL No: 07 - Carried over to summary</b>				<b>0.00</b>
<b>BILL No: 08</b>				
<b><u>HYDRAULICS &amp; DRAINAGE</u></b>				
<b>8.1</b>	<b><u>HYDRAULICS</u></b>			
	<b><u>Preamble notes</u></b>			
	(b) All pipe work and fittings shall be high pressure PVC			
	(c) Rate shall include for supply and fixing of all pipes			
8.1.1	<b><u>Internal Plumbing</u></b>			
(1)	Internal plumbing to all toilets, washrooms, pantries and work area sinks incl. supply and laying of pipes.	1.00	item	-
8.1.2	<b><u>External Plumbing</u></b>			
(1)	Waste water and sewage connection from all the toilets & lab inc. supply and laying of pipes.	1.00	item	-
8.1.3	<b><u>Sanitary Fixtures &amp; Accessories</u></b>			
	Sanitary fixtures complete including brackets, stop valves, fittings etc. All sanitary fittings shall be of 'Rapetti' brand or equivalent and all fixtures shall be of 'Duravit' brand or equivalent.			
(1)	WC suites incl. Flush tank and fittings with well water connection	5.00	nos	-
(2)	Wash Basins incl. taps and fittings with public water connection	6.00	nos	-
(3)	Mirror	6.00	nos	-
(4)	Soap tray	5.00	nos	-
(5)	Floor drain	6.00	nos	-
(6)	Muslim shower	5.00	nos	-
(7)	Head Shower	5.00	nos	-
(8)	Hand Shower	5.00	nos	-
<b>8.2</b>	<b><u>DRAINAGE SYSTEM</u></b>			
	(a) Rates shall include for: excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus spoil; bends, junctions, reducers, expansion joints and all joints and other incidental materials.			
	(b) All pipework shall be uPVC			
8.2.1	<b><u>Pipe work</u></b>			

(1)	Allow for supply and installation of pipework including all the necessary accessories & fittings.	1.00	item		-
8.2.2	<b><u>Inspection chambers</u></b>				
(1)	Inspection chambers complete as shown on the drawings incl all pipe connections	1.00	item		-

<b>BILL No: 08 - HYDRAULIC AND DRAINAGE</b>					
<b>TOTAL OF BILL No: 08 - Carried over to summary</b>					<b>0.00</b>

<b>BILL No: 09</b>					
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<b><u>PAINTING</u></b>					
(b) All painting work shall be carried in accordance with the Specifications					
<b>9.1 <u>WALLS</u></b>					
(1)	Ground floor				
	Interior	532.89	m <sup>2</sup>		-
	Exterior	145.35	m <sup>2</sup>		-
<b>9.2 <u>CEILING SURFACES</u></b>					
Nippon or equivalent paint finish on soffits of concrete slab and staircase including application of putty, grinding and sanding as specified					
(1)	Ground floor				
	Interior	39.76	m <sup>2</sup>		-
	Exterior	219.62	m <sup>2</sup>		-

<b>BILL No: 09 - PAINTING</b>					
<b>TOTAL OF BILL No: 09 - Carried over to summary</b>					
					<b>0.00</b>

<b>BILL No: 10</b>					
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<b><u>ELECTRICAL &amp; SPECIFIC INSTALLATIONS</u></b>					
(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories					
(b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil					



- (c) Rates for electrical conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces
- (d) Light end and switch end of wiring together measured as one point
- (e) A point wiring for power points is measured as one point for each socket outlet; other end of wire is not included in the quantity.
- (f) Rates shall include for supply and complete installation
- (g) Three phase power supply.

**10.2 ELECTRICAL WIRING**

Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level.

(1) Wiring to Lighting	46.00	points	-
(2) Wiring to Power outlets and fans	57.00	points	-
(3) Wiring to D/B	1.00	item	-

**10.3 LIGHTING, POWER POINTS & FANS**

All lights shall be 'Philips' brand or equivalent, all switches, sockets etc. shall be 'Legrand' brand or equivalent, Air condition system shall be Hitachi or equivalent

(1) Wall mounted led light ( weatherproof)	10.00	nos	-
(2) Recessed down led light ( 15w/pure white)	11.00	nos	-
(3) Recessed down led light ( pure white)	25.00	nos	-
(4) Led Emergency light	9.00	nos	-
(5) Socket outlet, single gang, 13 Amp	8.00	nos	-
(6) Socket outlet, 2 gang, 13 Amp	20.00	nos	-
(7) Socket outlet, single gang, 15 Amp	5.00	nos	-
(8) Oneway switch (2 gang)	4.00	nos	-
(9) Oneway switch (3 gang)	6.00	nos	-
(10) Oneway switch (5 gang)	6.00	nos	-
(11) ceiling fan (16")	14.00	nos	-
(12) Exhaust Fan 14"	1.00	nos	-

**BILL No: 10 - ELECTRICAL**

**TOTAL OF BILL No: 10- Carried over to summary**

**0.00**

**BILL No: 11**

**ROOF TRUSS AND COVER**

(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories

**11.1 ROOF FRAMES**

**General**

(a) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails, bolts & screws.

(b) Rates shall include for applying approved quality wood preservatives as per manufactures instructions for all Timber structures.

(c) Rates shall include for 9mm thick Cement board fixed on 35 x 50mm Timber frame, trimming, nails, screws, hooks, hangers, clips and similar.

(1) 50 x 150 mm Timber Rafter	55.00	m	-
(2) 50 x 35 mm Timber battens	65.00	m	-

**11.2 ROOF COVER AND ACCESSORIES**

Corrugated roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories

(1) lysaght roofing sheets	394.65	m <sup>2</sup>	-
(2) 50mm thk rock wool insulation	394.65	m <sup>2</sup>	-
(3) PVC mesh	385.30	m <sup>2</sup>	-
(4) Lysaght ridge cap	18.28	m	-
(5) Lysaght flashing	43.89	m	-
(6) Lysaght gutter	39.62	m	-
(7) Timber facia	83.51	m	-

**BILL No: 11 - ROOF TRUSS AND COVER**

**TOTAL OF BILL No: 11 - Carried over to summary**

**0.00**

**BILL No: 12**

**ADDITIONS**

- 1.0 Bill no.1
  - a .....
  - b .....
- 2.0 Bill no.2
  - a .....
  - b .....
- 3.0 Bill no.3
  - a .....

b .....				
4.0 Bill no.4				
a .....				
b .....				
5.0 Bill no.5				
a .....				
b .....				
6.0 Bill no.6				
a .....				
b .....				
7.0 Bill no.7				
a .....				
b .....				
8.0 Bill no.8				
a .....				
b .....				
9.0 Bill no.9				
a .....				
b .....				
10.0 Bill no.10				
a .....				
b .....				
11.0 Bill no.11				
a .....				
b .....				

**BILL No: 12 - ADDITIONS**

**TOTAL OF BILL No: 12 - Carried over to summary**

**0.00**

**BILL No: 13**

**OMISSIONS**

1.0 Bill no.1				
a .....				
b .....				
2.0 Bill no.2				

a .....				
b .....				
3.0 Bill no.3				
a .....				
b .....				
4.0 Bill no.4				
a .....				
b .....				
5.0 Bill no.5				
a .....				
b .....				
6.0 Bill no.6				
a .....				
b .....				
7.0 Bill no.7				
a .....				
b .....				
8.0 Bill no.8				
a .....				
b .....				
9.0 Bill no.9				
a .....				
b .....				
10.0 Bill no.10				
a .....				
b .....				
11.0 Bill no.11				
a .....				
b .....				

**BILL No: 13 - OMISSIONS**

**TOTAL OF BILL No: 13 - Carried over to summary**

**0.00**





