

Hulhumale Accommodation

BILL OF QUANTITIES

Item	Description	Qty	Unit	Labour Rate	Amount
BILL No: 01					
	<u>EARTH WORKS</u>				
1.1	<u>EXCAVATION</u>				
	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.				
(1)	Excavation for pad foundation F1	2.04	m ³		
(3)	Excavation for foundation beams	5.66	m ³		
1.2	<u>WATER PROOFING</u>				
	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				
(4)	Damp proof membrane under ground floor slab	125.41	m ²		
(5)	Apply 2 coats of Brush Bond or similar on all concrete surfaces below ground level in accordance with manufacturer's instructions	1.00	item		
1.3	<u>EARTH FILLING</u>				
	Rates shall include for levelling, grading, trimming and compacting.				
(1)	Back filling	6.13	m ³		
(2)	450mm thk hardcore	50.97	m ³		
BILL No: 01 - EARTH WORKS					
TOTAL OF BILL No: 01 - Carried over to summary					
BILL No: 02					
	<u>CONCRETE</u>				

<p>(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 structural and excavated tolerances</p> <p>(b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc.</p> <p>(c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume</p> <p>(d) RHEOMAC 707" or equivalent concrete admixture shall be added to all concrete elements as per manufacturers instruction and specification.</p>				
<p>2.1 <u>LEAN CONCRETE</u></p>	<p>Note: Quantity is measured to the edges of concrete members. Rates shall be inclusive of any additional concrete required to place the formwork.</p>			
(1) 50mm thick lean screed to bottom of pad foundation. F1	0.37	m ³		
(2) 50mm thick lean screed to bottom of foundation beams.	0.64	m ³		
<p>2.2 <u>REINFORCED CONCRETE</u></p>	In-situ reinforced concrete to:			
<p>2.2.1 <u>Foundation level</u></p>				
(1) Pad foundation F1	2.04	m ³		
(3) Foundation beams	5.66	m ³		
<p>2.2.2 <u>Ground Floor</u></p>				
(1) Columns	2.33	m ³		
(2) Floor slab 75mm thick	11.91	m ³		
(4) Lintel and sill beams (200mmX150mm) on all doors and windows	1.00	item		
<p><u>First Floor</u></p>				
Columns	2.33	m ³		

	First Floor Slab 75mm thick	10.33	m ³		
2.2.3	<u>Roof</u>				
(1)	Attached beams RB1	5.38	m ³		
2.3	<u>FORMWORK</u>				
	(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	<u>Foundation level</u>				
(1)	Pad foundation	8.35	m ²		
(3)	Foundation beams	44.29	m ²		
2.3.2	<u>Ground Floor</u>				
(1)	Columns	46.62	m ²		
2.3.3	<u>First Floor</u>				
(1)	Columns	46.62	m ²		
	First Floor Slab	118.20	m ²		
(3)	Lintel and sill beams (200mmX150mm)on all doors and windows	1.00	item		
2.3.4	<u>Roof</u>				
(1)	Attached beams	52.74	m ²		
BILL No: 02 - CONCRETE					
TOTAL OF BILL No: 02 - Carried over to summary					
BILL No: 03					
	<u>MASONRY AND PLASTERING</u>				
	(a) Mix ratio for Plastering & masonry shall be 1:4.with river sand OPC cement				
3.1	HOLLOW BLOCK WORK 100 MM THK				
(1)	External wall (150 mm thick)	105.90	m ²		
(1)	Internal wall	139.35	m ²		
3.3	<u>PLASTERING</u>				

	15mm thk for interior, 20mm thk for exterior plastering on walls and concrete surfaces.				
3.3.1	Ground floor/ First Floor				
3.3.1.1	Interior building	278.70	m ²		
3.3.1.2	Exterior building	211.80	m ²		
3.4	<u>FLOOR SCREED</u>				
	50mm thk,1:4 cement sand screeding on the floor to receive floor paint as described				
(1)	General floor	125.41	m ²		
BILL No: 03 - MASONRY AND PLASTERING					
TOTAL OF BILL No: 03 - Carried over to summary					
BILL No: 04					
	<u>METAL WORKS/WOOD WORKS</u>				
	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.				
4.1	<u>Steel Structure</u>				
(1)	Installing Roof Sheet for building Out side	1.00	nos		
(2)	Installing Panel for building Inside	1.00	item		
(3)	installation of staircase	1.00	item		
BILL No: 04 - METAL WORKS					
TOTAL OF BILL No: 04 - Carried over to summary					
BILL No: 05					
5.1	<u>CEILING</u>				
	<u>SUSPENDED CEILING</u>				
	(b) Rates shall include for applying approved quality wood preservators as per manufactures instructions for all Timber structures.				

(1)	External (Eaves and toilets)	44.59	m ²		
(2)	Internal	250.83	m ²		
BILL N0: 05 - CEILINGS					
TOTAL OF BILL No: 05 - Carried over to summary					
BILL N0: 06					
	<u>DOORS AND WINDOWS</u>				
	Notes: (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.				
	(c) Rates shall include for finishing				
6.1	<u>DOORS AND WINDOWS</u>				
(1)	D1 (Aluminium panel door)	22.00	nos		
(2)	SD 1 (Sliding Door)	4.00	nos		
(3)	W1 (Aluminium swing window)	8.00	nos		
BILL N0: 06 -DOORS AND WINDOWS					
TOTAL OF BILL No: 06 - Carried over to summary					
BILL N0: 07					
	<u>FINISHES</u>				
	Note: (a)Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.				
7.1	<u>FLOOR / WALL FINISHES</u>				
	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 ceramic tiles on room	200.67	m ²		

(2)	300x300mm non skid ceramic tiles on toilets floor	42.36	m ²		
(3)	300x450mm Ceramic tiles on toilets wall @ ceiling height	230.39	m ²		
BILL No: 07 - FINISHES					
TOTAL OF BILL No: 07 - Carried over to summary					
BILL No: 08					
<u>HYDRAULICS & DRAINAGE</u>					
8.1	<u>HYDRAULICS</u>				
	<u>Preamble notes</u>				
	(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	<u>Internal Plumbing</u>				
(1)	Internal plumbing to all toilets, washrooms, pantries and work area sinks incl. supply and laying of pipes.	1.00	item		
8.1.2	<u>External Plumbing</u>				
(1)	Waste water and sewage connection from all the toilets & lab inc. supply and laying of pipes.	1.00	item		
8.1.3	<u>Sanitary Fixtures & Accessories</u>				
	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	8.00	nos		
(2)	Wash Basins incl. taps and fittings with public water connection	8.00	nos		
(3)	Low level Taps with public water connection	1.00	nos		
(4)	Mirror	4.00	nos		
(5)	Soap dispenser	8.00	nos		

(6)	Floor drain	20.00	nos		
(7)	Muslim shower	8.00	nos		
8.2	<u>DRAINAGE AND WELL SYSTEM</u> (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	<u>Pipe work</u> Allow for supply and installation of pipework				
(1)	including all the necessary accessories & fittings.	1.00	item		
BILL No: 08 - HYDRAULIC AND DRAINAGE					
TOTAL OF BILL No: 08 - Carried over to summary					
BILL No: 09					
	<u>PAINTING</u> (b) All painting work shall be carried in accordance with the Specifications				
9.1	<u>WALLS / CONCRETE SURFACES</u>				
9.1.1	Interior	217.39	m ²		
9.1.2	Exterior building (Approved texture paint)	126.00	m ²		
9.2	<u>CEILING SURFACES</u> Nippon or equivalent paint finish on soffits of concrete slab and staircase including application of putty, grinding and sanding as specified				
9.2.1	Interior	250.83	m ²		
9.2.2	Exterior (Eaves & Toilets)	44.59	m ²		
BILL No:9 - PAINTING					
TOTAL OF BILL No: 9 - Carried over to summary					
BILL No: 10					
<u>ELECTRICAL & SPECIFIC INSTALLATIONS</u>					

(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.

10.1 ELECTRICAL BOARDS

Complete installation, including for all connections, earthing, painting, testing and similar of:

Three phase main panel board with connections from the mains including meter, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification

- | | | | |
|-----|---|------|------|
| (1) | Three phase electricity meters | 1.00 | nos |
| (2) | Distribution Board (24 Slot) | 2.00 | nos |
| (3) | Main connection from existing panel or distribution board located in the Control room with 16 sq mm 4 core cable through GI conduite. Approximate length is 30m | 1.00 | item |

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	44.00	points		
(2)	Wiring to Power outlets	40.00	points		
(3)	Wiring to D/B	2.00	nos		
10.3	<u>LIGHTING, POWER POINTS & FANS</u>				
	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)-20watt	5.00	nos		
(2)	Recessed Ceiling mount led light (pure white)-18Watt	40.00	nos		
(8)	Socket outlet, single gang, 13 Amp	4.00	nos		
(9)	Socket outlet, 2 gang, 13 Amp	38.00	nos		
(13)	Oneway switch (2 gang)	10.00	nos		
(14)	Oneway switch (3 gang)	8.00	nos		
10.6	<u>AIR CONDITIONING SYSTEMS</u>				
	Supply and install Hitachi brand Inverter or equivalent Split Air conditioning system as decribed				
(1)	Room (24,000 BTU)	4.00	nos		
BILL No:10 - ELECTRICAL					
TOTAL OF BILL No:10 Carried over to summary					
BILL No: 11					
	<u>ROOF TRUSS AND COVER</u>				
	(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	<u>ROOF FRAMES</u>				
	<u>General</u>				

	<p>(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.</p> <p>(b) Rates shall include for applying approved quality wood preservators as per manufactures instructions for all Timber structures.</p> <p>(c) Rates shall include for 9mm thick Cement board fixed on 35 x 50mm Timber frame,trimming, nails, screws,hooks, hangers, clips and similar.</p>				
(1)	TR1	6.00	nos		
(2)	C Purlin (3x5 inch)	18.00	nos		
(3)	Painting of the above inclusive of anti corrosive paint approved by client	1.00	item		
11.2	<u>ROOF COVER AND ACCESSORIES</u>				
	Lysaght roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories				
(1)	lysaght roofing sheets	144.93	m ²		
(2)	50mm thk rock wool insulation (2 sides foil)	144.93	m ²		
(3)	PVC mesh	144.93	m ²		
(4)	Lysaght ridge cap	8.00	nos		
(5)	Lysaght flashing	18.00	nos		
(6)	Lysaght gutter	10.00	m		
(7)	Fiber Cement Fascia	49.37	m		
BILL No: 11 - ROOF TRUSS AND COVER					
TOTAL OF BILL No: 11 - Carried over to summary					
BILL No: 12					
	<u>ADDITIONS</u>				
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					
BILL No: 13					
<u>OMISSIONS</u>					
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 - OMISSIONS					
TOTAL OF BILL No: 12 - Carried over to summary					-

