

BILL OF QUANTITIES

Item	Description	Qty	Unit	Rate	Amount
BILL No: 01					
<u>PRELIMINARIES</u>					
	<p><u>Abbreviations</u> m - metre Nos - numbers m³ - cubic metre m² - square metre Lm - Linear metre t - tonnes incl - including mm - millimetre dia - diameter SS - Stainless Steel GI - Galvanised Iron DN - Drawing number from drawings SN - Sheet number from drawings</p>				
1.1	<p><u>SITE MANAGEMENT COST</u> Allow for all on and off site management cost including cost of certified site engineer, foreman and assistants, temporary services, telephone, fax, hoardings, guards and similler.</p>	1.00	item		
BILL No: 01 - PRELIMINARIES					
TOTAL OF BILL No: 01 - Carried over to summary					
BILL No: 02					
<u>EARTH WORKS</u>					
2.1	<p><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.</p>				
(1)	Excavation for foundation beams	5.74	m ³		

Item	Description	Qty	Unit	Rate	Amount
2.2	<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				
(1)	Damp proof membrane under foundation beams	7.80	m ²		
(2)	Damp proof membrane under ground slab	53.00	m ²		
(3)	Apply 2 coats of Brush Bond or similar on all concrete surfaces below ground level in accordance with manufacturer's instructions	23.00	m ²		
2.3	<u>EARTH FILLING</u> Rates shall include for levelling, grading, trimming and compacting.				
(1)	Back filling	3.40	m ³		
(2)	200mm thk sand layer	10.60	m ³		
2.4	<u>CLEANING UPON COMPLETION</u>				
(1)	Cleaning the site upon completion of all works	1.00	item		
BILL No: 01 - EARTH WORKS					
TOTAL OF BILL No: 02 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 03					
<u>CONCRETE WORKS</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</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>3.1 <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 foundation beams at 1:5 ratio	7.80	m ²		
	<p>3.2 <u>REINFORCED CONCRETE</u></p> <p>In-situ reinforced concrete to:</p>				
	<p>3.2.1 <u>Foundation level</u></p>				
	(1) Foundation beams	2.34	m ³		
	<p>3.2.2 <u>Ground Floor</u></p>				
	(1) Columns	0.80	m ³		
	(2) Ground floor slab 75mm thick	3.98	m ³		
	(3) Concrete beds	0.30	m ³		

Item	Description	Qty	Unit	Rate	Amount
(4)	Lintel and sill beams (150mmX150mm)on all doors and windows	1.00	item		
3.2.3	<u>Roof</u>				
(1)	Attached beams	1.75	m ³		
3.3	<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.				
3.3.1	<u>Foundation level</u>				
(1)	Foundation beams	23.00	m ²		
3.3.2	<u>Ground Floor</u>				
(1)	Columns	21.80	m ²		
(2)	Concrete beds	3.10	m ²		
(3)	Lintel and sill beams (150mmX150mm)on all doors and windows	1.00	item		
3.3.3	<u>Roof</u>				
(1)	Attached beams	28.00	m ²		
3.4	<u>REINFORCEMENT</u>				
	(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.				
3.4.1	<u>Foundation</u>				
(1)	12 mm dia. bars in foundation beams	134.00	kg		
(2)	6 mm dia. bars in foundation beams	63.00	kg		

Item	Description	Qty	Unit	Rate	Amount
3.4.2	<u>Ground Floor</u>				
(1)	10mm dia. bars in columns	95.00	kg		
(2)	6mm dia. bars in columns	40.00	kg		
(3)	10mm dia. bars in concrete bed	27.00	kg		
(4)	6 mm dia. bars in ground slab @ 300mm c/c	71.00	kg		
(5)	10 & R6 bars in lintels and sill beams	1.00	item		
3.4.3	<u>Roof</u>				
(1)	12mm dia. bars in beams	134.00	kg		
(2)	6mm dia. bars in beams	57.00	kg		

Item	Description	Qty	Unit	Rate	Amount
BILL No: 03 - CONCRETE					
TOTAL OF BILL No: 03 - Carried over to summary					
BILL No: 04					
<u>MASONRY AND PLASTERING</u>					
Note: Rates shall include for: blocks, cutting or leaving holes and openings as recesses, building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashing, bedding frames. Blocks should be mechanical or machine compacted blocks with mix ratio 1:5 (a) Mix ratio for Plastering & masonry shall be 1:4.with river sand OPC cement					
4.1	<u>HOLLOW BLOCK WORK 100 MM THK</u>				
(1)	External wall	89.00	m ²		
(2)	Bed side wall	3.60	m ²		
4.2	<u>HOLLOW BLOCK WORK 100MM THK</u>				
(1)	Internal wall	31.00	m ²		
4.3	<u>PLASTERING</u>				
15mm thk for interior, 20mm thk for exterior plastering on walls and concrete surfaces.					
(1)	Ground floor				
	Interior	151.00	m ²		
	Exterior	89.00	m ²		
4.4	<u>FLOOR SCREED</u>				
38mm thk,1:4 cement sand screeding on the floor to receive floor paint as described					
(1)	Internal floor and steps	53.00	m ²		
BILL No: 04 - MASONRY AND PLASTERING					
TOTAL OF BILL No: 04 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 05					
<u>METAL WORKS/WOOD WORKS</u>					
<p>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.</p> <p>(b) Rates shall include for all painting and finishing.</p> <p>(c) Rates shall include for fabrication and erection of temporary supports and fixing into position</p> <p>(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.</p>					
5.1 <u>COUNTERS/SHELVES</u>					
	(1) Sink counter with homogeneous polished tiles finish on top .Rates shall include, concrete ,formwork ,water connection and completion all necessary works.	1.00	item		
	(2) Wooden kafan rack with 6 shelves 600mm X600mm made using 25mm thk mdf board and completion of all necessary works	1.00	item		
BILL No: 05 - METAL/WOOD WORKS					
TOTAL OF BILL No: 05 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 06					
<u>CEILING</u>					
6.1	<p><u>SUSPENDED CEILING</u></p> <p>6 mm thick fiber cement board for weather exposed area or toilets and eaves & 9mm thick gypsum ceiling board for internal, suspended ceiling systems Rates shall include finishing with steel frames for internal and external shall be wooden frames at 600mm X 600mm grid.</p> <p>(1) External(toilet,eaves and external exposed area)</p> <p>(2) Internal ceiling</p>				
		37.00	m ²		
		40.00	m ²		
BILL N0: 06 - CEILINGS					
TOTAL OF BILL No: 06 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL N0: 07					
<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.				
	(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				
	Rates shall include masonry and plastering for relocation doors and windows as per proposed plans				
7.1	<u>DOORS AND WINDOWS</u>				
(1)	D1 (Aluminium door)	2.00	nos		
(2)	D2 (Aluminium door)	1.00	nos		
(3)	D3 (Aluminium door)	1.00	nos		
(4)	D4 (Aluminium door)	1.00	nos		
(5)	W1 (Aluminium window)	1.00	nos		
(6)	W2 (Aluminium window)	1.00	nos		
(7)	W3 (Aluminium window)	3.00	nos		
(8)	V1 (Aluminium ventilator)	1.00	nos		
7.2	<u>VERTICLE BLINDS</u>				
	Supply and installation of verticle blinds on all external doors and windows as described				
(1)	W1	1.00	nos		
(2)	W2	1.00	nos		
BILL N0: 07 -DOORS AND WINDOWS					
TOTAL OF BILL No: 07 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL N0: 08					
<u>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				
8.1 <u>FLOOR/WALL FINISHES</u>					
(1)	600x600mm matt Porcelain tiles on hall and store floor	21.00	m ²		
(2)	300x300mm matt Hormogenous tiles on shower floor	18.20	m ²		
(3)	300x300mm matt Hormogenous tiles on toilet floor	2.70	m ²		
(4)	300x300mm matt Hormogenous tiles on outdoor entrance floor	7.10	m ²		
(5)	300x450mm Ceramic tiles on shower wall @ 1.5m	21.00	m ²		
(6)	300x450mm Ceramic tiles on toilet wall @ 2.5m	14.00	m ²		
8.1.1	Tile skirting				
	Tiles skirting between wall and floor as specified				
(1)	Internal walls	43.00	m		
8.2 <u>PLASTERBOARD CONICE/TIMBER BORDER</u>					
	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	37.20	m		
	Exterior	5.60	m		
BILL No: 08 - FINISHES					
TOTAL OF BILL No: 08 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 09					
<u>HYDRAULICS & DRAINAGE</u>					
9.1	<u>HYDRAULICS</u>				
	<u>Preamble notes</u>				
	a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cuttin				
	(b) All pipe work and fittings shall be high pressure PVC				
	(c) Rate shall include for supply and fixing of all pipes				
9.1.1	<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		
9.1.2	<u>External Plumbing</u>				
	(1) Waste water and sewage connection from all the toilets & lab inc. supply and laying of pipes.	1.00	item		
	(2) Waste water and solid waste connection to Public junction box or Septic tank inc. supply and laying of pipes.	1.00	item		
9.1.3	<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	1.00	nos		
	(2) Wash Basins incl. taps and fittings	1.00	nos		

Item	Description	Qty	Unit	Rate	Amount
(3)	Water tap	1.00	nos		
(4)	Mirror	1.00	nos		
(5)	Soap tray	1.00	nos		
(6)	Floor drain	3.00	nos		
(7)	Paper holder	2.00	nos		
(8)	Soap bottle holder	1.00	nos		
(9)	movable shower	1.00	nos		
(10)	SS sink	1.00	nos		
9.1.4	<u>Pumps</u> Connecting to pipe work of existing Friday mosque as specified	1.00	item		
9.2	<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 (b) All pipework shall be uPVC				
9.2.1	<u>Pipe work</u> (1) Allow for supply and installation of pipework including all the necessary accessories & fittings.	1.00	item		
9.2.2	<u>Inspection chambers</u> (1) Inspection chambers complete as shown on the drawings incl all pipe connections and similar	1.00	item		
9.2.3	<u>Septic tank and Soak pit</u> (1) Instalation of all pipe connections and similar to the existing Friday mosque septic tank	1.00	item		

Item	Description	Qty	Unit	Rate	Amount
9.2.4	<p><u>Rainwater discharge pipe</u> (1) ϕ 75mm PVC Rainwater down pipe from roof to the rainwater collection tank</p>	1.00	item		
<p>BILL No: 09 - HYDRAULIC AND DRAINAGE TOTAL OF BILL No: 09 - Carried over to summary</p>					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 10					
<u>PAINTING</u>					
<p>Note: (a) 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</p> <p>(b) All painting work shall be carried in accordance with the Specifications</p>					
10.1 <u>WALLS / CONCRETE SURFACES</u>					
Nippon or equivalent emulsion paint finish on cement plastered walls and concrete surfaces. Exterior walls should be weather proof paint.Allow for 1-coats of Alkali Resisting primer on all plastered surface including 1-coat of putty finish before paint on all internal surfaces as described					
(1)	Ground floor				
	Interior	151.00	m ²		
	Exterior	89.00	m ²		
10.2 <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					
(1)	Ground floor				
	Interior	40.00	m ²		
	Exterior	37.00	m ²		
BILL No: 10 - PAINTING					
TOTAL OF BILL No: 10 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 11					
<u>ELECTRICAL & SPECIFIC INSTALLATIONS</u>					
	<p>(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories</p> <p>(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</p> <p>(c) Rates for electrical conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces</p> <p>(d) Light end and switch end of wiring together measured as one point</p> <p>(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.</p> <p>(f) Rates shall include for supply and complete installation</p> <p>(g) Single phase power supply.</p>				
	<p>11.1 <u>ELECTRICAL BOARDS</u></p> <p>Complete installation, including for all connections, earthing, painting, testing and similar of: Single 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</p>				
	<p>(3) Installation of 6sqmm 2 core main cable from existing control panel to proposed building building with GI condute (approximate length 20m)</p>	1.00	item		

Item	Description	Qty	Unit	Rate	Amount
11.2	<u>ELECTRICAL WIRING</u>				
	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	22.00	points		
(2)	Wiring to Power outlets and fans	14.00	points		
(3)	Wiring to D/B	1.00	item		
11.3	<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)	Emergency led light one hour non maintained	4.00	nos		
(2)	Ceiling recessed led light	14.00	nos		
(3)	1x4' Tube led light	1.00	nos		
(4)	Wall mounted light	2.00	nos		
(5)	Wall mounted light (weather proof)	5.00	nos		
(6)	Ceiling fan with dimmer	4.00	nos		
(7)	13 Amp Double Socket outlet	1.00	nos		
(8)	13 Amp Double Socket outlet(Weatherproof)	2.00	nos		
(9)	13 Amp Single Socket outlet	6.00	nos		
(10)	15 Amp Single Socket outlet	1.00	nos		
(11)	1 Gang Switch	1.00	nos		
(12)	2 Gang Switch	2.00	nos		
(13)	3 Gang Switch	1.00	nos		
(14)	4 Gang Switch	1.00	nos		
(15)	5 Gang Switch	2.00	nos		
11.4	<u>FIRE ALARM & FIGHTING SYSTEM</u>				
	Provide & install fire fighting equipment inclusive of all necessary connection as per local regulations as described Fire system shall be Apollo brand or equivalent				
(1)	CO2 Extinguisher(2kg)	2.00	nos		
(2)	Water Extinguisher(9ltr)	2.00	nos		
BILL No: 11 - ELECTRICAL					
TOTAL OF BILL No: 11- Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 12					
<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				
12.1	<u>ROOF FRAMES</u> Build up timber frames rest on wood plate anchored in roof beam in adherence with the drawing.				
(1)	Ridge beam 50 x 150mm	2.60	m		
(2)	Wooden hip rafters 50 x 150mm	25.00	m		
(3)	Wooden rafters 50 x 150mm @900mm c/c	71.00	m		
(4)	Wooden battens 38 x 38mm wood purlins @450mm, fully anchored to rafters.	102.00	m		
(5)	Wooden fascia board 25 x 250mm	37.00	m		
(6)	Painting of the above inclusive of wood treatment.	1.00	item		
12.2	<u>ROOF COVER AND ACCESSORIES</u> Corrugated roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories				
(1)	lysaght roofing sheets	83.00	m ²		
(2)	50mm thk rockwool insulation	83.00	m ²		
(3)	PVC mesh	83.00	m ²		
(4)	Lysaght ridge cap	27.60	m		
BILL No: 12 - ROOF TRUSS AND COVER					
TOTAL OF BILL No: 12 - Carried over to summary					