

**BILLS OF QUANTITIES  
OF 2 STOREY BUILDING (SHOP) HITHADHOO**

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 01</b>								
	<b><u>PRELIMINARIES</u></b>							
	Proposed 02 Storey (Ground and First floor) MNU Campus Building at S. Hithadhoo Area = 322 m <sup>2</sup>							
<b>1.1</b>	<b><u>GENERAL NOTES</u></b>							
(1)	<u>Abbreviations</u> nos - numbers m <sup>3</sup> - cubic metre m <sup>2</sup> - square metre m - linear metre kg - kilograms t - tonnes incl. - including SS - Stainless Steel GI - Galvanised Steel							
<b>1.2</b>	<b><u>SITE MANAGEMENT COSTS</u></b>							
(1)	Allow for all on and off site management cost including costs of foreman and assistants	1.00	item					
<b>1.3</b>	<b><u>SAFETY ON SITE</u></b>							
(1)	Providing & maintaining adequate safety measure on site for all workers & all authorized visitors on site & protecting adjoining properties & people against falling objects or other with regard to the construction works	1.00	item					
<b>1.4</b>	<b><u>PLANTS &amp; MACHINERY</u></b>							
(1)	Provision & maintenance of all necessary temporary plants, machineries & scaffolding that is required for the completion of the project	1.00	item					
<b>1.5</b>	<b><u>SERVICES &amp; FACILITIES</u></b>							
(1)	Provision & maintenance of services & facilities such as water, power supply, lighting & fuel required for the project.	1.00	item					
<b>1.6</b>	<b><u>SIGN BOARD</u></b>							
(1)	Allow for sign board	1.00	item					
<b>1.7</b>	<b><u>TEMPORARY FENCING &amp; HOARDING</u></b>							
(1)	Supply, erect & maintenance of a fence through out the construction period & hoarding all along the perimeter of the site	1.00	item					
<b>BILL No: 01 PRELIMINARIES</b>								
<b>TOTAL OF BILL No: 01 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 02</b>								
<b><u>GROUND WORKS</u></b>								
<b>2.1</b>	<b><u>GENERAL</u></b> Note: Rates shall include for: levelling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil							
<b>2.2</b>	<b><u>SITE CLEARING</u></b> (1) Clearing site	1.00	item					
<b>2.3</b>	<b><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.  <u>Excavation for foundation</u> (1) Excavation for foundation pads (2) Excavation for foundation beams Building footprint area	67.80 12.91 322.00	m <sup>3</sup> m <sup>3</sup> m <sup>2</sup>					
<b>2.4</b>	<b><u>FILLING</u></b> Notes: Rates shall include for: levelling, grading, trimming and compacting (1) Sand blinding layer to receive damp proof membrane (2) Earth filling in ground floor (300mm above ground level)	40.68 16.27	m <sup>2</sup> m <sup>3</sup>					
<b>2.5</b>	<b><u>WATER PROOFING</u></b> Note: Rates shall include for: dressing around and sealing to avoid all penetrations (1) Apply 2 coats of Brush Bond or similar on foundation rafts, strip beams & tie beams, steps and under ground masonry & concrete walls in accordance with manufacturer's instructions	1.00	item					
<b>BILL No: 02 - GROUND WORKS</b>								
<b>TOTAL OF BILL No: 02 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03</b>								
<b><u>CONCRETE</u></b>								
<b>3.1 GENERAL</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 structural and excavated tolerances							
	(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							
<b>3.2 LEAN CONCRETE</b>								
	Note: Quantity is measured with additional 0.1m to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.							
(1)	50mm thick lean concrete to bottom of raft foundation or strip footing and beams							
	<u>Concrete Volume</u>	3.22	m <sup>3</sup>					
	Cement	17.00	bags					
	River sand	34.00	bags					
	Coarse aggregate	68.00	bags					
<b>3.3 REINFORCED CONCRETE</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 inclusive of laps are given. The rates shall take into account any wastage.							
	In-situ reinforced concrete to:							
<b>3.3.1 Foundation</b>								
(1)	Foundation Pad F1 (1700 x 1700 x 350mm)							
	<u>Concrete Volume</u>	13.15	m <sup>3</sup>					
	Cement	119.00	bags					
	River sand	238.00	bags					
	Coarse aggregate	357.00	bags					
	Concrete chemical Rheomix 141	1.97	litres					
	Water proofing material	20.00	litres					
	<u>Formwork</u>	68.51	m <sup>2</sup>					
	12mm thick plywood	24.00	nos					
	50mm x 50mm timber	1.44	m <sup>3</sup>					
	Nails	3.46	kg					
	Mould oil	10.00	litres					
	<u>Reinforcement</u>							
	12mm. dia, 6m. high tensile steel bar (T12@100)	3.16	t					
	1.6mm. dia, 90mm Steel ties	0.0101	t					
(2)	Foundation Pad F2 (1400 x 1400 x 350mm)							
	<u>Concrete Volume</u>	2.74	m <sup>3</sup>					
	Cement	25.00	bags					
	River sand	50.00	bags					
	Coarse aggregate	75.00	bags					
	Concrete chemical Rheomix 141	0.41	litres					
	Water proofing material	4.00	litres					
<b>BILL No: 03 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03 - Brought forward</b>								
	<u>Formwork.</u>	15.68	m²					
	12mm thick plywood	6.00	nos					
	50mm x 50mm timber	0.36	m³					
	Nails	0.86	kg					
	Mould oil	3.00	litres					
	<u>Reinforcement.</u>							
	12mm. dia, 6m. high tensile steel bar (T12@150)	0.24	t					
	1.6mm. dia, 90mm Steel ties	0.0009	t					
(3)	Foundation Pad F3 (1000 x 2350 x 350mm)							
	<u>Concrete Volume</u>	0.82	m³					
	Cement	8.00	bags					
	River sand	16.00	bags					
	Coarse aggregate	24.00	bags					
	Concrete chemical Rheomix 141	0.12	litres					
	Water proofing material	2.00	litres					
	<u>Formwork.</u>	3.75	m²					
	12mm thick plywood	2.00	nos					
	50mm x 50mm timber	0.12	m³					
	Nails	0.29	kg					
	Mould oil	1.00	litres					
	<u>Reinforcement.</u>							
	12mm. dia, 6m. high tensile steel bar (T12@75)	0.03	t					
	1.6mm. dia, 90mm Steel ties	0.000051	t					
(4)	Foundation Pad F4 (1000 x 1800 x 350mm)							
	<u>Concrete Volume</u>	1.26	m³					
	Cement	12.00	bags					
	River sand	24.00	bags					
	Coarse aggregate	36.00	bags					
	Concrete chemical Rheomix 141	0.19	litres					
	Water proofing material	2.00	litres					
	<u>Formwork.</u>	7.10	m²					
	12mm thick plywood	3.00	nos					
	50mm x 50mm timber	0.18	m³					
	Nails	0.43	kg					
	Mould oil	2.00	litres					
	<u>Reinforcement.</u>							
	12mm. dia, 6m. high tensile steel bar (T12@100)	0.18	t					
	1.6mm. dia, 90mm Steel ties	0.000010	t					
(5)	Foundation Beam B1	186.30	m					
	<u>Concrete Volume</u>	20.96	m³					
	Cement	189.00	bags					
	River sand	378.00	bags					
	Coarse aggregate	567.00	bags					
	Concrete chemical Rheomix 141	3.14	litres					
	Water proofing material	31.00	litres					
	<u>Formwork.</u>	214.24	m²					
	12mm thick plywood	75.00	nos					
	50mm x 50mm timber	4.50	m³					
	Nails	10.80	kg					
	Mould oil	31.00	litres					
<b>BILL No: 03 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03 - Brought forward</b>								
3.3.2	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (10T16)	2.88	t					
	6mm. dia, ring bar (2R6@100)	0.78	t					
	1.6mm. dia, 90mm Steel ties	0.01341	t					
	<u>Columns</u>							
	(1) Columns C1							
	<u>Concrete Volume</u>	8.38	m³					
	Cement	76.00	bags					
	River sand	152.00	bags					
	Coarse aggregate	228.00	bags					
	Concrete chemical Rheomix 141	1.26	litres					
	Water proofing material	13.00	litres					
	<u>Formwork.</u>	40.20	m²					
	12mm thick plywood	14.00	nos					
	50mm x 50mm timber	0.84	m³					
	Nails	2.02	kg					
	Mould oil	6.00	litres					
	<u>Reinforcement. ( Upto bar length 6m)</u>							
	16mm. dia, 6m. high tensile steel bar (8T16)	0.62	t					
	06mm. dia, 6m. Ring bars (2R6@150 with HOOK)	0.17	t					
	1.6mm. dia, 90mm Steel ties	0.032160	t					
3.3.3	<u>Beams</u>							
	(1) First Floor Beams B1	99.00	m					
	<u>Concrete Volume</u>	8.66	m³					
	Cement	78.00	bags					
	River sand	156.00	bags					
	Coarse aggregate	234.00	bags					
	Concrete chemical Rheomix 141	1.30	litres					
	Water proofing material	13.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	94.05	m²					
	12mm thick plywood	33.00	nos					
	50mm x 50mm timber	1.98	m³					
	Nails	4.75	kg					
	Mould oil	14.00	litres					
<b>BILL No: 03 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03 - Brought forward</b>								
	<u>Reinforcement.</u>							
	20mm. dia, 6m. high tensile steel bar (7T20)	1.71	t					
	6mm. dia, ring bar (2R6@100)	0.57	t					
	1.6mm. dia, 90mm Steel ties	0.00416	t					
(2)	First Floor Beams B2	24.00	m					
	<u>Concrete Volume</u>	1.68	m³					
	Cement	16.00	bags					
	River sand	32.00	bags					
	Coarse aggregate	48.00	bags					
	Concrete chemical Rheomix 141	0.25	litres					
	Water proofing material	3.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	21.60	m²					
	12mm thick plywood	8.00	nos					
	50mm x 50mm timber	0.48	m³					
	Nails	1.15	kg					
	Mould oil	4.00	litres					
	<u>Reinforcement.</u>							
	25mm. dia, 6m. high tensile steel bar (10T25)	0.61	t					
	16mm. dia, 6m. high tensile steel bar (2T16)	0.08	t					
	6mm. dia, ring bar (2R6@100)	0.14	t					
	1.6mm. dia, 90mm Steel ties	0.00101	t					
(3)	First Floor Beams B3	18.00	m					
	<u>Concrete Volume</u>	1.26	m³					
	Cement	12.00	bags					
	River sand	24.00	bags					
	Coarse aggregate	36.00	bags					
	Concrete chemical Rheomix 141	0.19	litres					
	Water proofing material	2.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	16.20	m²					
	12mm thick plywood	6.00	nos					
	50mm x 50mm timber	0.36	m³					
	Nails	0.86	kg					
	Mould oil	3.00	litres					
	<u>Reinforcement.</u>							
	25mm. dia, 6m. high tensile steel bar (6T25)	0.27	t					
	16mm. dia, 6m. high tensile steel bar (2T16)	0.06	t					
	6mm. dia, ring bar (2R6@100)	0.10	t					
	1.6mm. dia, 90mm Steel ties	0.00076	t					
(4)	First Floor Beams B4	4.70	m					
	<u>Concrete Volume</u>	0.33	m³					
	Cement	3.00	bags					
	River sand	6.00	bags					
	Coarse aggregate	9.00	bags					
	Concrete chemical Rheomix 141	0.05	litres					
	Water proofing material	1.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	4.23	m²					
	12mm thick plywood	2.00	nos					
	50mm x 50mm timber	0.12	m³					
	Nails	0.29	kg					
	Mould oil	1.00	litres					
<b>BILL No: 03 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03 - Brought forward</b>								
	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (8T16)	0.06	t					
	6mm. dia, ring bar (R6@100)	0.01	t					
	1.6mm. dia, 90mm Steel ties	0.00010	t					
(5)	Roof beams RB1	123.20	m					
	<u>Concrete Volume</u>	9.86	m³					
	Cement	89.00	bags					
	River sand	178.00	bags					
	Coarse aggregate	267.00	bags					
	Concrete chemical Rheomix 141	1.48	litres					
	Water proofing material	15.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	123.20	m²					
	12mm thick plywood	43.00	nos					
	50mm x 50mm timber	2.58	m³					
	Nails	6.19	kg					
	Mould oil	18.00	litres					
	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (8T16)	1.56	t					
	06mm. dia, 6m. Ring bars (R6@100)	0.26	t					
	1.6mm. dia, 90mm Steel ties	0.00444	t					
(6)	Roof beams RB2	53.80	m					
	<u>Concrete Volume</u>	4.30	m³					
	Cement	39.00	bags					
	River sand	78.00	bags					
	Coarse aggregate	117.00	bags					
	Concrete chemical Rheomix 141	0.65	litres					
	Water proofing material	7.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	53.80	m²					
	12mm thick plywood	19.00	nos					
	50mm x 50mm timber	1.14	m³					
	Nails	2.74	kg					
	Mould oil	8.00	litres					
	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (12T16)	1.02	t					
	06mm. dia, 6m. Ring bars (2R6@100)	0.22	t					
	1.6mm. dia, 90mm Steel ties	0.00581	t					
(7)	Roof beams RB3	19.90	m					
	<u>Concrete Volume</u>	1.59	m³					
	Cement	15.00	bags					
	River sand	30.00	bags					
	Coarse aggregate	45.00	bags					
	Concrete chemical Rheomix 141	0.24	litres					
	Water proofing material	3.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	19.90	m²					
	12mm thick plywood	7.00	nos					
	50mm x 50mm timber	0.42	m³					
	Nails	1.01	kg					
	Mould oil	3.00	litres					
	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (6T16)	0.19	t					
	06mm. dia, 6m. Ring bars (R6@150)	0.03	t					
	1.6mm. dia, 90mm Steel ties	0.00072	t					
<b>BILL No: 03 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 03 - Brought forward</b>								
(8)	Lintel Beams (LB)	25.20	m					
	<u>Concrete Volume</u>	2.39	m³					
	Cement	22.00	bags					
	River sand	44.00	bags					
	Coarse aggregate	66.00	bags					
	Concrete chemical Rheomix 141	0.36	litres					
	Water proofing material	4.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	25.96	m²					
	12mm thick plywood	10.00	nos					
	50mm x 50mm timber	0.60	m³					
	Nails	1.44	kg					
	Mould oil	4.00	litres					
	<u>Reinforcement.</u>							
	12mm. dia, 6m. high tensile steel bar (8T12)	0.18	t					
	12mm. dia, 6m. Cross bars (T12@150)	0.09	t					
	06mm. dia, 6m. Ring bars (R6@150)	0.03	t					
	1.6mm. dia, 90mm Steel ties	0.00091	t					
3.3.4	<b><u>Slabs</u></b>							
(1)	First Floor Concrete Slab (130mm thickness)	322.00	m²					
	<u>Concrete Volume</u>	41.86	m³					
	Cement	377.00	bags					
	River sand	754.00	bags					
	Coarse aggregate	1,131.00	bags					
	Concrete chemical Rheomix 141	6.28	litres					
	Water proofing material	61.00	litres					
	<u>Formwork. (Sides upto slab level)</u>	289.80	m²					
	12mm thick plywood	101.00	nos					
	50mm x 50mm timber	6.06	m³					
	Nails	14.54	kg					
	Mould oil	42.00	litres					
	<u>Reinforcement.</u>							
	10mm. dia, 6m. high tensile steel bar (T10@125)	0.11	t					
	Distribution Steel							
	10mm. dia, 6m. high tensile steel bar (T10@125)	0.36	t					
	Top Reinf.							
	10mm. dia, 6m. high tensile steel bar (T10@125)	0.18	t					
	Bottom Reinf.							
<b>BILL No: 03 - CONCRETE</b>								
<b>TOTAL OF BILL No: 03 - Carried over to summary</b>								



Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 04</b>								
	<b><u>MASONRY AND PLASTERING</u></b>							
4.1	<b><u>GENERAL</u></b> Note: Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and 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 or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good. Providing approved quality mesh at joints between structural members and masonry in the exterior walls							
4.2	<b><u>SOLID BLOCK WORK</u></b> 150 x 150 x 300mm solid block wall, blocks laid common bond							
(1)	<b><u>Exterior walls (Underground, Ground and First floor including above ceiling)</u></b> Masonry area Bricks Cement for block placing River Sand	357.82 8,230.00 51.00 255.00	m <sup>2</sup> nos bags bags					
(5)	<b><u>Interior walls (ground and first floor level including above ceiling)</u></b> Masonry area Bricks Cement for block placing River Sand	520.08 11,962.00 73.00 365.00	m <sup>2</sup> nos bags bags					
<b>BILL No: 04 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 04 - Brought forward</b>								
<b>4.3</b>	<b><u>PLASTERING</u></b> 12mm thick interior cement plastering and 20mm thick exterior cement plastering as specified on							
(1)	<b><u>Exterior walls - masonry below +150</u></b>							
a	Exterior							
	Plastering area (Exterior)	715.64	m <sup>2</sup>					
	Cement for plastering	182.00	bags					
	River sand for plastering	728.00	bags					
(2)	<b><u>Exterior walls - ground floor (above +150)</u></b>							
a	Exterior							
	Plastering area (Exterior)	137.28	m <sup>2</sup>					
	Cement for plastering	35.00	bags					
	River sand for plastering	140.00	bags					
b	Interior							
	Plastering area (Interior)	137.28	m <sup>2</sup>					
	Cement for plastering	18.00	bags					
	River sand for plastering	72.00	bags					
(3)	<b><u>Exterior walls - first floor (up to ceiling level)</u></b>							
a	Exterior							
	Plastering area (Exterior)	142.14	m <sup>2</sup>					
	Cement for plastering	37.00	bags					
	River sand for plastering	148.00	bags					
b	Interior							
	Plastering area (Interior)	142.14	m <sup>2</sup>					
	Cement for plastering	19.00	bags					
	River sand for plastering	76.00	bags					
(4)	<b><u>Exterior walls - above ceiling level</u></b>							
a	Exterior							
	Plastering area (Exterior)	60.16	m <sup>2</sup>					
	Cement for plastering	16.00	bags					
	River sand for plastering	64.00	bags					
b	Interior							
	Plastering area (Interior)	60.16	m <sup>2</sup>					
	Cement for plastering	8.00	bags					
	River sand for plastering	32.00	bags					
(5)	<b><u>Interior walls (ground and first floor including above ceiling)</u></b>							
a	Interior							
	Plastering area (Interior)	1,040.16	m <sup>2</sup>					
	Cement for plastering	265.00	bags					
	River sand for plastering	1,060.00	bags					
<b>BILL No: 04 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 04 - Brought forward</b>								
<b>4.4 FLOORING</b>	Cement sand screeding on the floor as specified on.							
(1) <b><u>Ground floor</u></b>	50 mm thick screed in the floor							
	Cement sand screed Area	322.00	m <sup>2</sup>					
	Cement	144.00	bags					
	River sand	720.00	bags					
(2) <b><u>First floor</u></b>	50 mm thick screed in the floor							
	Cement sand screed Area	322.00	m <sup>2</sup>					
	Cement	144.00	bags					
	River sand	720.00	bags					
<b>BILL No: 04 - MASONRY &amp; PLASTERING</b>								
<b>TOTAL OF BILL No: 04 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 05</b>								
<b><u>METAL WORKS</u></b>								
<b>5.1</b>	<b><u>GENERAL</u></b> 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 as specified (c) Rates shall include for fabrication and erection and temporary supports and fixing into position  (c) The contractor shall submit the detail of the Garbage chute and get the approval from the Consultant before fixing it in position							
<b>5.2</b>	<b><u>RAILING ON STAIR CASE AND BALCONY</u></b>							
5.2.1	<b><u>SS pipe Railing for staircase from Ground floor to First floor level .</u></b>							
(1)	1200mm high handrail with ø50mm SS pipe horizontally top and ø50mm SS pipes vertically with 18mm welded base plates as shown in the drawing	4.00	item					
<b>5.3</b>	<b><u>CANOPY ROOF TRUSS</u></b>							
5.3.1	<b><u>GI pipe Truss Canopy.</u></b>							
(1)	2160mm width truss with ø38mm GI pipe horizontally top and ø25mm GI pipe braces with welded joints plates as shown in the drawing including 12mm Cable with Eye type Turnbuckles on both ends and 2 nos M16 bolts and support for Gutters and Metal Signboard	28.00	item					
5.3.2	<b><u>Metal Signboard</u></b>							
(1)	25mm thick 700mm x 28m Metal signboard	1.00	item					
<b>5.3</b>	<b><u>AIRCON OUTDOOR UNIT COVER</u></b>							
5.3.1	<b><u>AC Outdoor Unit Covering Louver</u></b>							
(1)	Aluminum hollow frame with horizontal louvers 2300 x 1340 @100	6.00	item					
(2)	Aluminum hollow frame with horizontal louvers 1000 x 1340 @100	4.00	item					
<b>BILL No: 05 - METAL WORKS</b>								
<b>TOTAL OF BILL No: 05 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 06</b>								
	<b><u>CEILINGS</u></b>							
<b>6.1</b>	<b><u>SUSPENDED CEILING</u></b> Boral concealed suspended ceiling with concealed grid system or similar including framing, beading, nails and screws. Rate shall include for the painting and finishing.							
<b>(1)</b>	<b>Ground floor</b>							
	Ceiling Area	286.00	m <sup>2</sup>					
	6mm thick Gypsum for Ceiling	99.31	nos					
	50mm x 50mm Timber frame work	1,489.58	m					
	Nails	14.30	kg					
<b>(1)</b>	<b>False cladde ceiling under Truss Canopy</b>							
	Ceiling Area	64.40	m <sup>2</sup>					
	6mm thick Cladding for Ceiling	22.36	nos					
	50mm x 50mm Timber frame work	335.42	m					
	Nails	3.22	kg					
<b>(1)</b>	<b>First Floor</b>							
	Ceiling Area	305.90	m <sup>2</sup>					
	6mm thick Plywood for Ceiling	106.22	nos					
	50mm x 50mm Timber frame work	2,336.74	m					
	Nails	20.39	kg					
<b>BILL No: 06 - CEILING</b>								
<b>TOTAL OF BILL No: 06 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL NO: 07</b>								
	<b><u>DOORS AND WINDOWS</u></b>							
<b>7.1</b>	<b><u>GENERAL</u></b>							
	Notes: (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware and these materials should be brass and of superior quality.							
	(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 all painting							
<b>7.2</b>	<b><u>TIMBER DOORS, ALUMINIUM DOORS AND WINDOWS</u></b>							
(1)	D1 (2150 x 750) Timber Panel Door with Timber, Nyatch or equiv. Frame, Wood Stain Finish including Butt Hinges (Silver) x4 and Knob Lock x1	8.00	nos					
(2)	D2 (2450 x 1700) Powder Coated Aluminum Dual Panel Door with Aluminum Frame (1.2mm thick), Black color Finish with Tinted Float Glass Panel (6mm thick), including Butt Hinges x4 each with Latchlock x 2 (top and bottom of small flap) and Handlebar and Key Lock x1 (on large flap)	1.00	nos					
(3)	D3 (2850 x 1710) Powder Coated Aluminum Panel Sliding Door with Aluminum Frame (1.2mm thick, Profile 50 x 100), Black color Finish including Smooth Sliding Rollers and Handlebar and Key Lock x1	4.00	nos					
(4)	D4 (2150 x 900) Timber Panel Door with Timber, Nyatch or equiv. Frame, Wood Stain Finish including Butt Hinges (Silver) x4 and Handlebar and Key Lock x1	4.00	nos					
(2)	W1 (1500 x 1800) Powder Coated Aluminum Panel Window with 4x quadrant Aluminum flaps and Tinted Float Glass Panels (6mm thick), including Brushed Metal (Silver) x 3 each flap and Latch Locks x1 each flap	4.00	nos					
(3)	W2 (1500 x 900) Powder Coated Aluminum Panel Window with 2x Aluminum flaps with Tinted Float Glass Panels (6mm thick), including Brushed Metal (Silver) x 3 each flap and Latch Locks x1 each flap	4.00	nos					
(4)	W3 (775 x 1800) Powder Coated Aluminum Panel Window with 3x Aluminum flaps with Tinted Float Glass Panels (6mm thick), including Brushed Metal (Silver) x 3 each flap and Latch Locks x1 each flap	10.00	nos					
<b>BILL No: 07 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 07 - Brought forward</b>								
(5)	V1 (700 x 700) Powder Coated Aluminum Panel Window with Aluminum flaps with Tinted Float Glass Panels (6mm thick), including Brushed Metal (Silver) x 3 and Latch Locks x1	4.00	nos					
(1)	FG1 (3125 x 5600) Powder Coated Aluminum Panel Fixed Glass and Door with 2x Aluminum Doors and 8x Fixed Glass Panels with Tinted Float Glass Panels (6mm thick), including Butt Hinge (Silver) x 4 each Doorflap and Handlebar and Key Locks x1 each flap	3.00	nos					
(2)	FG2 (3125 x 5750) Powder Coated Aluminum Panel Fixed Glass and Door with 2x Aluminum Doors and 8x Fixed Glass Panels with Tinted Float Glass Panels (6mm thick), Black color finish, including Butt Hinge (Silver) x 4 each Doorflap and Handlebar and Key Locks x1 each flap	1.00	nos					
(3)	FG3 (2825 x 5706) Powder Coated Aluminum Panel Fixed Glass and Door with 2x Aluminum Doors and 8x Fixed Glass Panels with Tinted Float Glass Panels (6mm thick), black color finish, including Butt Hinge (Silver) x 4 each Doorflap and Handlebar and Key Locks x1 each flap	1.00	nos					
(4)	FG4 (2825 x 2728) Powder Coated Aluminum Panel, Black color finish with Fixed Glass with 6x Fixed Glass Panels with Tinted Float Glass Panels (6mm thick)	1.00	nos					
<b>BILL N0: 07 -DOORS AND WINDOWS</b>								
<b>TOTAL OF BILL No: 07 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 08</b>								
<b><u>PAINTING</u></b>								
<b>8.1 GENERAL</b>	<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 and furniture as may be required.</p> <p>(b) All painting work shall be carried in accordance with the Specifications</p> <p>(c) Emulsion paint finish after grinding the area and applying putty.</p> <p>(c) Emulsion and Enamel paint shall be Nippon or equiv.</p>							
<b>8.2 WALLS</b>	Emulsion paint finish after grinding the area and applying putty and exterior walls should be applied with weather proof paint							
<b>8.2.1 Exterior walls - ground floor</b>								
(1) Exterior								
Painting area	137.28	m <sup>2</sup>						
Wall sealer	31.00	litres						
Emulsion paint	44.00	litres						
(2) Interior								
Painting area	137.28	m <sup>2</sup>						
Wall sealer	31.00	litres						
Emulsion paint	44.00	litres						
Putty	137.28	kg						
<b>8.2.2 Exterior walls - first floor (up to ceiling level)</b>								
(1) Exterior								
Painting area	142.14	m <sup>2</sup>						
Wall sealer	32.00	litres						
Emulsion paint	45.00	litres						
(2) Interior								
Painting area	142.14	m <sup>2</sup>						
Wall sealer	32.00	litres						
Emulsion paint	45.00	litres						
Putty	142.14	kg						
<b>BILL No: 08 - Carried forward</b>								



Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 08 - Brought forward</b>								
8.2.3	<b><u>Exterior walls - above ceiling level</u></b>							
(1)	Exterior							
	Painting area	60.16	m <sup>2</sup>					
	Wall sealer	14.00	litres					
	Emulsion paint	19.00	litres					
8.2.4	<b><u>Interior walls (ground and first floor including above ceiling)</u></b>							
(2)	Interior							
	Painting area	1,040.16	m <sup>2</sup>					
	Wall sealer	229.00	litres					
	Emulsion paint	327.00	litres					
	Putty	1,040.16	kg					
8.3	<b><u>CEILING</u></b>							
	Emulsion paint finish after grinding the area and applying putty. Both Slab soffit and false ceiling							
(1)	<b><u>Ground floor</u></b>							
	Painting area	286.00	m <sup>2</sup>					
	Wall sealer	63.00	litres					
	Emulsion paint	90.00	litres					
	Putty	286.00	kg					
(2)	<b><u>First floor</u></b>							
	Painting area	305.90	m <sup>2</sup>					
	Wall sealer	68.00	litres					
	Emulsion paint	97.00	litres					
	Putty	305.90	kg					
8.4	<b><u>WATER PROOFING</u></b>							
	Suitable water proof Coating over floor screed to be applied before tiling							
(1)	Toilets	24.00	m <sup>2</sup>					
<b>BILL No: 08 - PAINTING</b>								
<b>TOTAL OF BILL No: 08 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL NO: 09</b>								
	<b><u>FINISHES</u></b>							
<b>9.1</b>	<b><u>GENERAL</u></b> Note: Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.							
<b>9.2</b>	<b><u>FLOOR TILES</u></b>							
<b>9.2.1</b>	<b>Ground floor</b>							
(1)	600x600mm Ceramic floor tiles	274.00	m <sup>2</sup>					
	600mm x 600mm tiling area							
	Tiles	838.00	nos					
	Cement for tiling	69.00	bags					
<b>9.2.2</b>	<b>Ground Floor Toilets</b>							
(1)	300mm x300mm x9mm Skid proof ceramic floor tiles							
	300mm x 300mm tiling area	12.00	m <sup>2</sup>					
	Tiles	37.00	nos					
	Cement for tiling	3.00	bags					
<b>9.2.3</b>	<b>First floor</b>							
(1)	600x600mm Ceramic floor tiles							
	600mm x 600mm tiling area	268.00	m <sup>2</sup>					
	Tiles	819.00	nos					
	Cement for tiling	67.00	bags					
<b>9.2.4</b>	<b>First floor Toilets</b>							
(1)	300mm x300mm x9mm Skid proof ceramic floor tiles							
	300mm x 300mm tiling area	12.00	m <sup>2</sup>					
	Tiles	37.00	nos					
	Cement for tiling	3.00	bags					
<b>9.2.5</b>	<b>Stairs</b>							
(1)	200x200mm Skid proof Stair tiles							
	200mm x 200mm tiling area with Anti-Slip Nosing	63.00	m <sup>2</sup>					
	Tiles	693.00	nos					
	Cement for tiling	16.00	bags					
<b>9.2.6</b>	<b>Skirting</b>							
(1)	Grd floor (100mm high Ceramic tile skirting)	144.00	m					
(2)	First Floor (100mm high Ceramic tile skirting)	150.20	m					
<b>9.2.7</b>	<b>Air Vents</b>							
(1)	Ceiling Air Vents	8.00	nos					
(2)	Wall Air Vents	8.00	nos					
<b>BILL NO: 09 - FINISHES</b>								
<b>TOTAL OF BILL No: 09 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL NO: 10</b>								
	<b><u>HYDRAULICS &amp; DRAINAGE</u></b>							
10.1.	<b><u>Internal Plumbing</u></b> Internal plumbing in toilets incl. Supply and laying of pipes	8.00	item					
10.2.	<b><u>External plumbing</u></b>							
(1)	Direct Municipality Water connection pipe work for ground floor to first floor with separate water meters incl. supply and laying of pipes.	1.00	item					
(2)	Municipality water meters	8.00	nos					
(3)	Waste water and sewage connection from all the toilets, to the municipality sewer line with Catch pits and Manhole. Also the well water over flow to the Municipality Drain incl. Supply and laying of pipes.	1.00	item					
10.3.	<b><u>Sanitary Fixtures &amp; Accessories</u></b> Sanitary fixtures complete including brackets. All sanitary fittings shall be of superior quality. Taps, Hand shower, Head shower, Bidet shower, towel ring, and towel bar should be Stainless steel							
10.3.1	<b><u>Toilets</u></b>							
(1)	WC suites incl. Flush tank and fittings with well water connection	8.00	nos					
(2)	Wash Basins incl. taps and fittings with water connection	8.00	nos					
(3)	Hand Shower with water connection	8.00	nos					
(4)	Shower cubicle	8.00	nos					
(5)	Muslim Shower with water connection	8.00	nos					
(6)	Mirror	8.00	nos					
(7)	Soap tray	8.00	nos					
(8)	Toilet paper holder	8.00	nos					
(9)	Towel bar	8.00	nos					
(10)	Floor drain	8.00	nos					
10.4.	<b><u>Pumps</u></b>							
(1)	Supply and installation of appropriate capacity Water pump 'Davey' or equivalent, complete including pump stand, connecting to pipe work and electricity as specified	8.00	nos					
10.5	<b><u>Well</u></b>							
(1)	Supply and installation of appropriate capacity reinforced concrete well (1200mm dia.) for ground water, connecting to pipe work as specified including reinforced concrete well cover 80mm thick	1.00	nos					
<b>BILL No: 10 - Carried forward</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 10 - Brought forward</b>								
<b>10.2</b>	<b><u>DRAINAGE</u></b>							
10.2.1	<b><u>Preamble notes</u></b> (a) Rates shall include for excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints and all joints, gutters, end caps and other incidental materials.  (b) All pipework shall be UPVC	1.00	item					
10.2.2	<b><u>Rainwater Gutters from Roof</u></b> (1) Gutter 150 x 250 PVC running across edge of roof sloped end toward back of the building	27.60	m					
10.2.3	<b><u>Rainwater discharge pipe from Roof</u></b> (1) ø 75mm PVC Rainwater down pipe from Roof to the drainage.	1.00	item					
10.2.4	<b><u>Rainwater discharge pipe from Canopy roof</u></b> (1) ø 75mm PVC Rainwater down pipe from false canopy to the drainage.	1.00	item					
10.2.5	<b><u>Rainwater discharge pipe Concealment Cladding</u></b> (1) Cladding to conceal downpipes in front of building	1.00	item					
<b>BILL No: 10 - HYDRAULIC AND DRAINAGE</b>								
<b>TOTAL OF BILL No: 10 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 11</b>								
<b><u>ELECTRICAL INSTALLATIONS</u></b>								
<b>11.1</b>	<b><u>GENERAL</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) Rates shall include special electrical works, lift and air conditioning system							
	(h) Three phase power supply							
<b>11.2</b>	<b><u>ELECTRICAL BOARDS</u></b>							
	Complete installation, including for all connections, earthing, painting, testing and similar of:							
	Single phase main panel board with connections from the mains including meters, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification							
(1)	3 phase main distribution panel board with connections from the mains including meters, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification	1.00	item					
(2)	3 phase sub distribution panel board with connections from the mains including meters, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification	8.00	nos					
<b>11.3</b>	<b><u>ELECTRICAL WIRING</u></b>							
(1)	Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level.	1.00	item					
(2)	Main Incomer Cable.4C50sq.mm PVC/SWA/XLPE/CU	20.00	m					
(3)	Sub Distribution Incomer Cable.4C16sq.mm PVC/SWA/XLPE/CU+1C,16.0 sq.mm CPC							
	from MDB to DB1	8.00	m					
	from MDB to DB2	16.00	m					
	from MDB to DB3	20.00	m					
	from MDB to DB4	25.00	m					
	from MDB to DB5	8.00	m					
	from MDB to DB6	15.00	m					
	from MDB to DB7	16.00	m					
	from MDB to DB8	21.00	m					
<b>11.4</b>	<b><u>ELECTRICAL FIXTURES</u></b>							
(1)	Main Distribution board	1.00	nos					
(2)	Sub-Distribution board	8.00	nos					
(3)	Ceiling Fan 56'	44.00	nos					

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
(4)	Ceiling Recessed Light 600 x 600 LED 35W 3705lm 106 lm/W	102.00	nos					
(5)	Ceiling Recessed Light 300 x 300 LED 10W 1046lm	8.00	nos					
(6)	Ceiling Recessed Downlight 3W 280lm 93lm	9.00	nos					
(7)	TV Outlet	8.00	nos					
(8)	Telephone Socket Outlet	8.00	nos					
(9)	Network Socket Outlet	8.00	nos					
(10)	Ac Unit 24000 BTU complete	16.00	nos					
(11)	Switch Socket Outlet 13AMP	16.00	nos					
(12)	Switch Socket Outlet 15AMP	16.00	nos					
(13)	Ceiling Fan Regulator	44.00	nos					
(14)	One way Switch 3-gang	8.00	nos					
(15)	One way Switch 1-gang	8.00	nos					
(16)	Two way Switch 1-gang	8.00	nos					
(17)	SPN Isolator 20A	16.00	nos					
<b>BILL No: 11 - ELECTRICAL INSTALLATION</b>								
<b>TOTAL OF BILL No: 11 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 12</b>								
	<b><u>WOODWORK</u></b>							
<b>12.1</b>	<b><u>General</u></b> (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 and screws.							
<b>12.2</b>	<b><u>Roof Structure</u></b> Timber Rafters 50 x 150 @900mm	420.00 425.00	m m					
<b>BILL No: 12 - WOODWORK</b>								
<b>TOTAL OF BILL No: 12 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL N0: 13								
ROOFING								
13.1	General							
13.1.1	GENERAL							
	Rates shall include for: fair edges, dressing over angel fillets, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps							
13.2	Roof Coverings							
13.2.1	Sloping roof (28 x 14 m)							
(1)	Refer to manufacturers drawings and instructions	1.00	nos					
BILL N0: 13 - ROOFING								
TOTAL OF BILL No: 13 - Carried over to summary								



Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 14</b>								
<b><u>FIRE FIGHTING SYSTEM</u></b>								
<b>14.1</b>	<b><u>GENERAL</u></b> (a) Rates shall include for sockets, running joints, backnuts and similar; incidental fittings, clips, saddles, brackets, straps, hangers, screws, nails and fastenings complete, incl. cutting and forming holes; excavating laying pipes and backfilling trenches.  (b) Shop drawings of the system should be submitted to the consultant for approval and it should be acceptable and comply to the regulation of the MNDF Fire and Rescue Service Department  (c) All items used in fire fighting system should be acceptable and comply to regulations of the MNDF Fire and Rescue Service Department.							
<b>14.2</b>	<b><u>FIRE APPLIANCES</u></b>							
<b>14.2.1</b>	<b><u>Ground Floor</u></b>							
	(1) Fire extinguisher	8.00	nos					
	(2) Fire Blanket	2.00	nos					
<b>14.2.2</b>	<b><u>First Floor</u></b>							
	(1) Fire extinguisher	8.00	nos					
	(2) Fire Blanket	2.00	nos					
<b>BILL No: 14 - FIRE FIGHTING SYSTEM</b>								
<b>TOTAL OF BILL No: 14 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 15</b>								
<b><u>FURNITURE</u></b>								
<b>15.1</b>	<b><u>GENERAL</u></b> Rates shall include for supply & installation.							
<b>15.2</b>	<b><u>Kitchen wall cabinet</u></b> (1) wall cabinet set for kitchen	0.00	nos					
<b>15.3</b>	<b><u>Kitchen cupboard</u></b> (1) Kitchen cupboard with SS sink and Hob	0.00	nos					
<b>BILL No: 15 - FURNITURE</b>								
<b>TOTAL OF BILL No: 15 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
<b>BILL No: 16</b>								
<b><u>ADDITIONS &amp; OMISSIONS</u></b>								
<b>16.1</b>	<b><u>GENERAL</u></b> Please make reference to BOQ items references when inserting additions or omissions to this BOQ.							
<b>16.2</b>	<b><u>ADDITION</u></b>							
16.2.1 (1)		0.00	item					
<b>16.3</b>	<b><u>OMISSION</u></b>							
16.3.1 (1)		0.00	item					
<b>BILL No: 16 - ADDISSION &amp; OMISSION</b>								
<b>TOTAL OF BILL No: 16 - Carried over to summary</b>								

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
SUMMARY								
1.0	PRELIMINARIES							
2.0	GROUND WORKS							
3.0	CONCRETE							
4.0	MASONRY AND PLASTERING							
5.0	METAL WORKS							
6.0	CEILINGS							
7.0	DOORS AND WINDOWS							
8.0	PAINTING							
9.0	FINISHES							
10.0	HYDRAULICS & DRAINAGE							
11.0	ELECTRICAL INSTALLATIONS							
12.0	WOODWORK							
13.0	ROOFING							
14.0	FIRE FIGHTING SYSTEM							
15.0	FURNITURE							
16.0	ADDITIONS & OMISSIONS							
GRAND TOTAL								