

Bill of Quantities

HDH. NAIVAADHOO, MULTI-PURPOSE HALL

CLIENT

**MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES**

PROJECT: HDH. NAIVAADHOO MULTIPURPOSE HALL
SUMMARY OF BILL OF QUANTITIES

Bl.no	Item Description	Amount
1	PRELIMINARIES	-
2	GROUND WORKS	-
3	CONCRETE WORKS	-
4	MASONRY & PLASTERING	-
5	FLOORING & TILING	-
6	DOORS & WINDOWS	-
7	CEILING	-
8	PAINTING	-
9	METAL WORK	-
10	HYDRAULICS & DRAINAGE	-
11	ELECTRICAL INSTALLATIONS	-
12	FIRE FIGHTING SYSTEM	-
13	ADDITIONS	-
14	OMISSIONS	-
	TOTAL Mvr	-
	6% GST Mvr	-
	GRAND TOTAL Mvr	-

PROJECT :HDH. NAIVAADHOO MULTIPURPOSE HALL

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 01</u> <u>PRELIMINARIES</u>					
1.1	<u>General Notes</u>					
(1)	<u>Abbreviations</u> m - metre no - numbers m ³ - cubic metre m ² - square metre m - metre t - tonnes incl - including mm - millimetre dia - diameter SS - Stainless Steel GI - Galvanised Iron					
1.2	<u>Site Management Costs</u>					
(1)	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings, fences, Crane/Concrete pump, Machinaries and similar items	Item	1.00			
1.3	<u>Sign Board</u>					
(1)	Allow for sign board.	No	1.00			
1.4	<u>SAFETY</u>					
(1)	Safety - Providing and fixing scaffolding with G.I. pipes and clamps and pvc netting alaround building during construction	Item	1.00			
1.5	<u>Clean-up</u>					
(1)	Allow for clean-up of completed works and site upon completion.	Item	1.00			
1.6.0	<u>Insurance, Bonds, Guarantees and Warranties</u>					
1)	Insurance as stated in the General Consditions.	Item	1.00			
1.7.0	<u>As-Built Drawings</u>					
1)	Preparation and submission of "as-built" Drawings.	Item	1.00			
BILL No: 01 PRELIMINARIES TOTAL OF BILL No: 01 - Carried over to summary						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO : 02</u> <u>GROUND WORK</u>					
2.1	<u>General</u> (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, additional working space and disposing surplus soil.					
2.2	<u>Site clearance</u> Clearing site - Demolition of Existing building and dispatch all debris, clearing and dispose all unwanted materials away from site and prepare site ready for proposed construction.	m ²	800.96			
2.3	<u>Shoring</u> Charges for construction of 150mm thick solid block Masonry wall complete including plastering, below existing adjacent building to protect side buildings.	m ²	50.00			
2.4	<u>Excavation</u> (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork , back fill , dewatering and others					
2.4.1	<u>Excavation</u>					
(1)	Foundations F1	m ³	11.25			
(2)	Foundations F2	m ³	50.40			
(3)	Foundations F3	m ³	23.04			
(4)	Foundations F4	m ³	5.40			
	Tie Beam TB	m ³	65.67			
	Tie Beam WF	m ³	34.51			
2.4.2	<u>Back filling</u> (a) Rates shall include for: leveling, grading, trimming and compacting. (b) Ground need to be compacted to the density required by the consultant					
1)	300mm thick highly compacted hard core from Ground floor to below ground floor slab	m ²	800.96			
2)	50mm thick Cement/sand blinding layer (1:10 - Cement & Local Sand mix) to receive damp proof membrane below ground floor slab	m ²	800.96			
2.5	<u>Damp Proof Membrane</u> (a) Rates shall include for: dressing around and sealing to all penetrations, laps and turnups.					
1)	Polythene damp proof membrane (500 gauge) laid on blinding layer.	m ²	800.96			
BILL No: 02 GROUND WORKS						
TOTAL OF BILL No: 02 - Carried over to summary						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.0	<u>BILL NO : 03</u> <u>CONCRETE</u> (a) Rates shall include for: placing in position; making good after removal of formwork and casting in all required items; additional concrete required to conform to structural and excavated tolerances. (b) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:2:6 by volume. (c) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete					
3.1.1	<u>LEAN CONCRETE</u> <u>50mm thick lean concrete below Foundation</u> Foundation Footings & Tie beams	m ²	163.48			
3.1.2	<u>REINFORCED CONCRETE</u>					
1.0	<u>FOUNDATIONS</u>					
(1)	Foundations F1	m ³	12.60			
(2)	Foundations F2	m ³	1.01			
(3)	Foundations F3	m ³	2.50			
(4)	Foundations F4	m ³	4.89			
	Tie Beam TB	m ³	27.04			
	Tie Beam WF	m ³	11.50			
2.0	<u>GROUND FLOOR</u>					
2.1	<u>COLUMNS</u> C1 C2 C3	m ³ m ³ m ³	10.80 2.50 9.00			
2.2	<u>STAIRCASE</u> R.c.c. Staircase	m ³	3.10			
2.3	<u>R.C.C. GROUND FLOOR SLAB</u> 100mm thick R.C. slab	m ³	80.10			
3.0	<u>FIRST FLOOR</u>					
3.1	<u>SLAB BEAMS</u> B1 B2 B3 B4	m ³ m ³ m ³ m ³	9.82 2.37 16.98 1.98			
3.2	<u>FLOOR SLAB</u> 150mm thick R.c.c. Floor Slab 160mm thick R.c.c. Floor Slab	m ³ m ³	34.80 12.64			
3.3	<u>COLUMNS</u> C1 C2 C3	m ³ m ³ m ³	9.45 2.19 7.88			
4.0	<u>ROOF LEVEL</u>					
4.1	<u>ROOF BEAMS</u> B3 SRB B4 SRB	m ³ m ³ m ³ m ³	16.62 1.42 1.58 0.54			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.1.3	<p><u>FORM WORK</u></p> <p>(a) Exposed surface shall have fair finish while remaining may have rough finish.</p> <p>(b) Timber used for unexposed concrete surface shall sound dressed and seasoned good quality common</p> <p>(c) Plywood used for forms shall be of commercial standard, moisture resistane concrete form plywoodnot less than 6mm thick and atleast 12mm thick.</p> <p>(d) 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.</p>					
1.0	<u>FOUNDATIONS</u>					
(1)	Foundations F1	m ²	2.10			
(2)	Foundations F2	m ²	1.68			
(3)	Foundations F3	m ²	0.96			
(4)	Foundations F4	m ²	0.90			
	Tie Beam TB	m ²	216.31			
	Tie Beam WF	m ²	46.01			
2.0	<u>GROUND FLOOR</u>					
2.1	<u>COLUMNS</u>					
	C1	m ²	134.40			
	C2	m ²	40.00			
	C3	m ²	144.00			
2.2	<u>STAIRCASE</u>					
	R.c.c. Staircase	m ²	28.50			
2.3	<u>R.C.C. GROUND FLOOR SLAB</u>					
	100mm thick R.C. slab including Entrance Steps	m ²	18.32			
3.0	<u>FIRST FLOOR</u>					
3.1	<u>SLAB BEAMS</u>					
	B1	m ²	74.97			
	B2	m ²	18.06			
	B3	m ²	164.91			
	B4	m ²	17.82			
3.2	<u>FLOOR SLAB</u>					
	150mm thick R.c.c. Floor Slab	m ²	232.00			
	160mm thick R.c.c. Floor Slab	m ²	79.00			
3.3	<u>COLUMNS</u>					
	C1	m ²	117.60			
	C2	m ²	35.00			
	C3	m ²	126.00			
4.0	<u>ROOF LEVEL</u>					
4.1	<u>ROOF BEAMS</u>					
	B3	m ²	126.93			
	B3 @ LR& SRB	m ²	18.94			
	B4	m ²	15.30			
	B4 @ LR& SRB	m ²	7.20			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.1.4	<u>REINFORCEMENT WORK</u> (a) Main reinforcement steel shall be high tensile steel hot rolled deformed bars complying with BS 1119 or BS 1172 Characteristic strength not less than 160N/mm ² . (b) Stirrups shall be hot rolled mildsteel round bars complying with BS 1119, Characteristic strength not less than 250N/mm ² (c) Rates shall include for; distribution steel, cleaning, fabrication, placing, the provision for all necessary temporary fixings, and supports including chairs and tie wire, laps and wastage.					
1.0	<u>BELOW GROUND</u>					
1)	<u>FOUNDATIONS</u>					
(1)	Foundations F1 12mm dia deformed bars - 6m	kg	288.36			
(2)	Foundations F2 12mm dia deformed bars - 6m	kg	118.11			
(3)	Foundations F3 12mm dia deformed bars - 6m	kg	16.20			
(4)	Foundations F4 10mm dia deformed bars - 6m	kg	8.72			
(6)	Tie Beam TB 16mm dia deformed bars - 6m	kg	1,953.01			
	6mm dia deformed bars - 6m	kg	823.23			
(7)	Tie Beam WF 12mm dia deformed bars - 6m	kg	545.96			
	6mm dia deformed bars - 6m	kg	181.58			
2.0	<u>GROUND FLOOR</u>					
1)	<u>COLUMNS</u>					
(1)	C1 20mm dia deformed bars - 6m	kg	1,896.96			
	6mm dia deformed bars - 6m	kg	397.82			
(2)	C2 16mm dia deformed bars - 6m	kg	505.60			
	6mm dia deformed bars - 6m	kg	118.40			
(3)	C3 12mm dia deformed bars - 6m	kg	1,025.28			
	6mm dia deformed bars - 6m	kg	426.24			
2)	<u>STAIRCASE</u> 10mm dia deformed bars - 6m	kg	86.80			
3)	<u>GROUND FLOOR SLAB</u> 10mm dia deformed bars - 6m	kg	4,817.40			
3.0	<u>FIRST FLOOR</u>					
1)	<u>SLAB BEAM</u>					
	B1 20mm dia deformed bars - 6m	kg	1,058.15			
	12mm dia deformed bars - 6m	kg	127.09			
	6mm dia deformed bars - 6m	kg	202.89			
	B2 20mm dia deformed bars - 6m	kg	169.94			
	10mm dia deformed bars - 6m	kg	21.33			
	6mm dia deformed bars - 6m	kg	48.88			
	B3 16mm dia deformed bars - 6m	kg	1,916.82			
	6mm dia deformed bars - 6m	kg	413.47			
	B4 16mm dia deformed bars - 6m	kg	293.44			
	6mm dia deformed bars - 6m	kg	45.71			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
2)	<u>FLOOR SLAB</u>					
	12mm dia deformed bars - 6m	kg	5,576.56			
	10mm dia deformed bars - 6m	kg	2,589.86			
3)	<u>COLUMNS</u>					
(1)	C1					
	20mm dia deformed bars - 6m	kg	1,659.84			
	6mm dia deformed bars - 6m	kg	348.10			
(2)	C2					
	16mm dia deformed bars - 6m	kg	442.40			
	6mm dia deformed bars - 6m	kg	103.60			
(3)	C3					
	16mm dia deformed bars - 6m	kg	897.12			
	6mm dia deformed bars - 6m	kg	372.96			
4.0	<u>ROOF BEAMS</u>					
1)	<u>ROOF BEAMS</u>					
	B3					
	16mm dia deformed bars - 6m	kg	764.02			
	6mm dia deformed bars - 6m	kg	343.52			
	SRB					
	12mm dia deformed bars - 6m	kg	168.53			
	6mm dia deformed bars - 6m	kg	50.45			
	B4					
	16mm dia deformed bars - 6m	kg	170.64			
	6mm dia deformed bars - 6m	kg	38.36			
	SRB					
	12mm dia deformed bars - 6m	kg	64.08			
	6mm dia deformed bars - 6m	kg	19.18			
5.0	<u>OTHER CONCRETE WORKS</u>					
a)	<u>WINDOW SILL & LINTELS</u>					
	Charges for construction of R.c.c. Sills and Lintels for the windows and doors as per details. Rate shall include for shuttering and Reinforcement works complete.	item	1.00			
b)	<u>PARAPET WALL</u>					
	Charges for construction of 150mm Thick masonry parapet wall wit 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint. 150mm X 150mm (4T10, R6@100C/C) Stiffener columns @max 1.5m intervals.100mm x150mm (2T10, R6@100Hook) Capping beam on top Rate shall include for Shuttering and Reinforcement work complete.	item	1.00			
c)	<u>WASH BASIN COUNTER SLAB</u>					
	Charges for Construction and Installation of 75mm thick R.c.c. Counter slab for washbasin at Toilet block as per drawing details. Rate shall include for; form work, reinforcement etc complete.	item	1.00			
6.0	<u>WATER PROOFING & ADD MIXTURES</u>					
(a)	Apply Rubberised bitumin water proofing paint, Moya Shield RBE , 2 coats to all exposed concrete and masonry surface below ground level.	item	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
(b)	Add approved water proofing admixture Mega Add WL1 as per specification to all concrete below ground level.	item	1.00			
(c)	Add Plasticiser admixture Mega Flow P as per specification to all concrete Substructure and Super structure.	item	1.00			
BILL No: 03 - CONCRETE WORKS						
TOTAL OF BILL No: 03 - Carried over to summary						-

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
BILL No: 04 <u>MASONRY AND PLASTERING</u>						
4.1	<u>General</u> a)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. b)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 flashings, bedding frames or plates, building in joints. c) All external wall and all inetrenal walls shall be 100mm thick Solid cement blocks and for masonry mix ratio 1:5 (cement and river sand)					
4.2	<u>MASONRY</u>					
1.0	<u>BELOW GROUND LEVEL</u>					
	150mm thick Solid block wall 300 x150 x 150mm solid block single wall - 150mm thick above all Tie beams.	m ²	462.84			
2.0	<u>GROUND FLOOR</u>					
1)	External walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	325.83			
2)	Interior walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	240.00			
3.0	<u>FIRST FLOOR</u>					
1)	External walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	273.63			
2)	Interior walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	33.00			
5.0	<u>ABOVE ROOF BEAM</u>					
1)	External walls 150mm thick 300x150x150mm solid block wall	m ²	55.00			
4.3	<u>PLASTERING</u> (a) 20mm thick Cement plastering on Exterior surface of External masonry walls and concrete surfaces and 15mm thick plastering on interior walls and concrete surface as specified incl. wire mesh shall be fixed at the joints of concrete surfaces and walls before plastering. Quantity is measured including concrete surfaces - Parapetwalls, Liftwalls, columns & beams. thick (12+8mm) 2 coats in 1:4 cement and river sand mix ratio					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	c) Rates shall include for approved brand water proofing compound shall be mixed with cement mortar for external wall plastering as per manufacturers specifications.					
1.0	<u>BELOW GROUND LEVEL</u>					
1)	<u>15mm thick Plastering</u> Both surface of below ground walls	m ²	925.68			
2.0	<u>GROUND FLOOR</u>					
1)	External Plastering External surface of exterior wall	m ²	325.83			
2)	Internal Plastering Internal surface of external wall and both surface of Interior walls	m ²	805.83			
3.0	<u>FIRST FLOOR</u>					
1)	External Plastering External surface of exterior wall	m ²	273.63			
2)	Internal Plastering Internal surface of external wall and both surface of Interior walls	m ²	339.63			
4.0	<u>ROOF LEVEL</u>					
1)	External Plastering External surface of exterior wall	m ²	55.00			
2)	Internal Plastering Internal surface of external wall	m ²	55.00			
BILL No: 04 - MASONRY AND PLASTERING TOTAL OF BILL No: 04 - Carried over to summary						
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO: 05</u> <u>FLOORING & TILING</u>					
5.1	<u>General</u> (a) Rates shall include for laying 50mm thick cement mortar in 1 : 5 mix ratio, cleaning down to reveals where necessary and water proofing of Toilet and Balcony floors & Terrace.					
5.2	<u>FLOORING</u> <u>50mm thick Floor Screeding</u>					
1.0	<u>GROUND FLOOR</u>					
	Multipurpose	m ²	383.26			
	Corridor	m ²	255.00			
	Store 1	m ²	22.00			
	Changing room	m ²	15.00			
	Toilets	m ²	37.00			
	Staircase	m ²	20.00			
2.0	<u>FIRST FLOOR</u>					
	Balcony	m ²	233.00			
	Store	m ²	7.00			
	Control room	m ²	7.00			
	Cat walk	m ²	79.00			
5.3	<u>TILING</u> (a) Rates shall include for: Fixing, bedding, grouting, and pointing materials, making good around pipes, sanitary fixtures, and similar; cleaning & Polishing. (b) All Tiling work in accordance with specifications and finishes schedule. (c) Tiles rate shall be given as specified in the drawing.					
1.0	<u>GROUND FLOOR</u>					
A)	<u>FLOOR TILING</u>					
1)	Changing Room	m ²	15.00			
2)	Stores	m ²	22.00			
3)	Toilets	m ²	37.00			
B)	<u>WALL TILING</u>					
	Toilet walls @ 3M height	m ²	177.00			
2.0	<u>FIRST FLOOR</u>					
A)	<u>FLOOR TILING</u>					
3)	Controll Room	m ²	7.00			
4)	Store	m ²	7.00			
5.4	<u>TILE ADHESIVE</u>					
1)	Charges for supplying special tiles grout for fixing tiles to all floors.	item	1.00			
6.0	<u>FLOOR PAINTING</u> (a) Rates shall include for: Painting , Leveling cleaning & Polishing.					
1.0	<u>GROUND FLOOR</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
A)	<u>FLOOR TILING</u>					
1)	Multipurpose Hall (Self Levelling cement for screed with epoxy floor paint)	m ²	383.26			
2.0	FIRST FLOOR					
A)	<u>FLOOR TILING</u>					
1)	Catwalk (Self Levelling cement for screed with	m ²	79.00			
BILL No: 05 -FLOORING AND TILING TOTAL OF BILL No: 05 - Carried over to summary						
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
BILL NO: 06 <u>DOORS AND WINDOWS</u>						
6.1	<u>General</u> (a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware. (b) Rates shall include for door frames and window frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings and installation. (c) All Timber door frames shall be treated timber. Rate shall include for Paint/Varnish finish. micron powder coated aluminium as per details given in Door/Window schedule. (e) All doors and windows shall be accordance with door/window drawing details.					
1.0	<u>GROUND FLOOR</u> <u>DOOR UNITS</u>					
1)	D01	no	7.00			
2)	D02	no	3.00			
3)	D03	no	1.00			
4)	D04	no	8.00			
5)	D05	no	1.00			
6)	D06	no	1.00			
7)	D07	no	2.00			
8)	W01	no	7.00			
9)	W02	no	8.00			
2.0	<u>FIRST FLOOR</u> <u>DOOR UNITS</u>					
1)	D2	no	2.00			
2)	D4	no	6.00			
3)	D6	no	1.00			
4)	W2	no	11.00			
BILL NO: 06 - DOORS AND WINDOWS TOTAL OF BILL No: 06 - Carried over to summary						
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
BILL No: 07 <u>WOOD WORK & CEILING</u>						
7.1	<u>General</u> (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 preservators 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.					
2.0	<u>GROUND FLOOR</u>					
A)	<u>CEILING</u>					
1)	Changing Room	m ²	15.00			
2)	Store 2	m ²	8.00			
3)	Toilets	m ²	37.00			
3.0	<u>SECOND FLOOR</u>					
A)	<u>CEILING</u>					
1)	Catwalk	m ²	76.00			
2)	Multipurpose Hall	m ²	383.26			
3)	Store room	m ²	7.00			
4)	Control room	m ²	7.00			
5)	Grid D - H/2-3 & Stair Void	m ²	27.89			
7.2	<u>WOOD WORK</u>					
1)	Timber Fascia Board: Supply and Fixing 25 x 250mm wide Timber Fascia board complete including Paint finishes.	mtr	70.00			
8.1	<u>STAGE WORK</u>					
1)	Hall stair as per stair detail	item	1.00			
2)	75mm X 150mm 2.5mm Thick RHS @400 c/c	mtr	214.00			
3)	150mm Thick solid block masonry wall with 150mm x150mm RC capping beam. 150mmThick solid block masonry wall with 25mm plastering on both sides	m ²	33.00			
4)	Under Hall Store access door D6 as in Door and Window schedule	no	2.00			
5)	Ramp as in the Drawing	item	1.00			
BILL No: 07 - WOOD WORK & CEILING TOTAL OF BILL No: 07 - Carried over to summary						
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
8.1	<u>BILL No: 08</u>					
	<u>PAINTING</u>					
8.1	<u>General</u> (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 and window furniture. (b) All painting work shall be carried in accordance with the Specifications (c)Rate shall include for weather proof paint finish for exterior surfaces of the wall complete including application of two coats of oil based wall sealer and two coats of weather bond paint (d)Rate shall include for putty and paint finish for interior surfaces of the wall and ceilings complete including application of two coats of wall sealer, two coats of putty finish and two coats of emulsion paint finish on top for Interior painting.					
1.0	<u>GROUND FLOOR</u>					
	Painting exterior surfaces of External Wall, Columns & beams.	m ²	325.83			
	Painting interior surfaces Wall, Columns & beams)	m ²	805.83			
	Painting Soffit of slab (Ceiling)	m ²	315.00			
2.0	<u>FIRST FLOOR</u>					
	Painting exterior surfaces of External Wall, Columns & beams.	m ²	273.63			
	Painting interior surfaces Wall, Columns & beams)	m ²	339.63			
	Painting Soffit of slab (Ceiling)	m ²	501.15			
3.0	<u>ROOF LEVEL</u>					
	Painting exterior surfaces of External Wall, Columns & beams.	m ²	55.00			
	Painting interior surfaces Wall, Columns & beams)	m ²	55.00			
	Eave Ceiling	m ²	70.00			
BILL No: 08 - PAINTING						
TOTAL OF BILL No: 08 - Carried over to summary						-

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 09</u> <u>METAL WORK</u>					
9.1	<u>General</u> (a) Rates shall include for ; all labour in framing, cutting, welding, cleats, baseplates, flanges,screws, nails, bends, and similar complete with grinding, surface smoothening and polish finishes.					
9.2	<u>RAILING</u>					
1.0	<u>GROUND FLOOR</u>					
1)	<u>GI Railing - Staircase</u> Supply, Fabrication and Fixing GI.S.Railing -Staircase as per details	item	1.00			
9.3	<u>ROOFING</u> Roof Truss - Supply, Fabrication and Fixing Roof Trusses complete with Base plates, Bolts, nuts, Washers etc including Paint Finishes. Refer drawing details					
1)	TR1 (17.7m)	no	9.00			
2)	BTR (36.7m)	no	1.00			
3)	60.3 Ø X 3.2mm GI Pipe on top of sloping gable beam (18m)	no	2.00			
4)	Supply and Fixing C - Purlins 50x100x2.5mm C purlins @ 900 C/C (36.7m)	no	22.00			
5)	Roof Covering - Supply and Fixing BHP Lysaght Roofing sheet	m ²	1,321.20			
6)	50mm thick double side Aluminium Foiled Rock wool Insulation laid as heat resistant below roofing sheet.	m ²	1,321.20			
7)	25mm grid G.I. mesh laid as support to under the Rock wool insulation	m ²	1,321.20			
8)	Capping - Supply and Fixing 600mm wide Lysaght Ridge Capping	mtr	36.00			
9)	Capping - Supply and Fixing 600mm wide Lysaght Flashing at Gable ends	mtr	27.00			
9)	Gutter - Supply and Fixing 150 x 200mm Lysaght Gutter	mtr	72.00			
10)	STEEL STAGE DRAWERS 1.5m width 6m long pullout storage drawer with steel framing.	nos	3.0			
	BILL No: 09 - METAL WORK					
	TOTAL OF BILL No: 09 - Carried over to summary					-

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 10</u> <u>HYDRAULICS & DRAINAGE</u>					
10.1	<u>General</u> (a) Design provide and install plumbing network for the entire building complete in accordance to standard set by the local governing body MWSC (b) The following items and description and the plumbing drawings are given as guidance as to the nature of the information to be returned by the contractor. (c) Ground water connection shall be made as specified in the drawings. (d) The cost shall include for; sockets, running joints, connectors, elbows, junctions, reducers, expansion joints, back nuts and similar, incidental fittings, clips, saddles, brackets, straps, hangers, screws, nails , pvc glues, threadseals and fixing complete, including cutting and forming holes, excavating, laying pipes , backfilling trenches. (e) All pipes shall be High Pressure uPVC "Mutha" or equivalent brand.					
1.0	<u>GROUND FLOOR</u>					
1)	<u>HYDRAULICS</u>					
a)	Charges for Piping for fresh water Pipe work	item	1.00			
b)	Charges for Piping for Ground water supply pipe work.	item	1.00			
c)	Charges for Providing and Fixing Heavy duty water pump Davey brand for Ground water supply to all floors - ground water net work.	no	1.00			
2)	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Drain	no	5.00			
2)	Gully Trap	no	1.00			
3)	Manhole	no	1.00			
4)	Bottle Trap	no	3.00			
5)	Clean Out Point	no	2.00			
6)	Basin Faucet	no	3.00			
7)	Bidet Shower	no	5.00			
8)	Wash Basin	no	3.00			
9)	Water Closet	no	5.00			
10)	Gate Valve	no	3.00			
11)	Angle Valve with cap for Ground Water	no	5.00			
3)	<u>DRAINAGE</u>					
1)	<u>SEWERAGE & DRAINAGE</u> : Charges for piping for all discharge pipes, sewerage and drainage pipes including connection Main junctions from the Fixtures.	item	1.00			
2)	<u>INSPECTION CHAMBERS</u> : Charges for construction and Pipe connection of Inspection chambers as per drawing	item	1.00			
3)	<u>SOAK PIT</u> :Charges for Construction and Installation of 1800mm dia. R.c.c. Soak Pit as per drawing details. Rate shall include for; Excavation, form work, reinforcement, Lifting hooks, gravel filling etc complete.	item	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
2.0	<u>FIRST FLOOR</u>					
1)	<u>HYDRAULICS</u>					
a)	Charges for Piping for fresh water Pipe work	item	1.00			
b)	Charges for Piping for Ground water supply pipe work.	item	1.00			
2)	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Drain	no	23.00			
3)	<u>DRAINAGE</u>					
1)	<u>SEWERAGE & DRAINAGE</u> : Charges for piping for all discharge pipes, sewerage and drainage pipes including connection Main junctions from the Fixtures.	item	1.00			
3.0	<u>ROOF LEVEL</u>					
1)	<u>DRAINAGE</u>					
1)	<u>RAINWATER DOWN PIPES</u> : Charges for piping for all discharge pipes and Drainage pipes including fittings and fixtures from the Gutter to Ground floor.	item	1.00			
BILL No: 10 - HYDRAULICS AND DRAINAGE						
TOTAL OF BILL No: 10 - Carried over to summary						

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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 11</u> <u>ELECTRICAL INSTALLATIONS</u>					
11.1	<u>General</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 shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces and also all electrical work shall be carried out according to STELCO standards and specifications. (d) Each Light/ light fixture and its switch is measured as one one point; similarly each fan or each socket outlet is measured as one point; (e) Rates shall include for supply and complete installation of fittings and fixtures.					
1.0	<u>GROUND FLOOR</u>					
1)	<u>ELECTRIC BOARDS</u>					
a	Supply and Installation of Utility Regulatory Authority approved Main Panel Board with kWh Meter	nos	1.00			
b	Wiring connection to Main Panel Board from Main Electricity network	item	1.00			
c	Supply and Installation of Utility Regulation Authority approved brand Distribution board	nos	2.00			
2)	<u>ELECTRIC FIXTURES</u>					
	Ceiling Light (12W)	nos	6.00			
	Ceiling Light (18W)	nos	5.00			
	Recessed Ceiling Light (12W)	nos	5.00			
	Weather Proof Wall Light IP55 (12W)	nos	18.00			
	Ceiling Mounted Exhaust Fan	nos	5.00			
	Light Switch (1 Gang)	nos	6.00			
	Light Switch (2 Gang)	nos	7.00			
	Light Switch (3 Gang)	nos	3.00			
	Light Switch (4 Gang)	nos	14.00			
	Light Switch (5 Gang)	nos	12.00			
	13A Power Socket	nos	8.00			
	13A Twin Socket	nos	29.00			
	Emergency Light	nos	8.00			
	Wall Mounted Speaker	nos	10.00			
3)	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	81.00			
2)	2.5mm ² Wiring to Power Points	points	37.00			
3)	16mm ² Cabling to DBs	item	2.00			
4)	Cabling - Speaker System	no	10.00			
2.0	<u>FIRST FLOOR</u>					
1)	<u>ELECTRIC BOARDS</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
a	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	nos	1.00			
2)	<u>ELECTRIC FIXTURES</u>					
	Ceiling Light (12W)	nos	3.00			
	Ceiling Light (18W)	nos	2.00			
	Weather Proof Wall Light IP55 (12W)	nos	14.00			
	2 x 50W PLL Tube Light	nos	52.00			
	42 inch To 48 inch Ceiling Fan	nos	40.00			
	Light Switch (1 Gang)	nos	2.00			
	Light Switch (3 Gang)	nos	1.00			
	13A Power Socket	nos	5.00			
	13A Twin Socket	nos	13.00			
	Computer Network Outlet	nos	1.00			
	Emergency Light	nos	5.00			
	Telephone Outlet	nos	1.00			
	Public Address System	nos	1.00			
	Wall Mounted Speaker	nos	4.00			
3)	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	114.00			
2)	2.5mm ² Wiring to Power Points	points	18.00			
3)	16mm ² Cabling to DBs	no	1.00			
4)	Cabling - Telephone points	no	1.00			
5)	Cabling - Data Network points (CAT6)	no	1.00			
6)	Cabling - Speaker System	no	4.00			
BILL No: 11 - ELECTRICAL INSTALLATIONS						
TOTAL OF BILL No: 11 - Carried over to summary						-

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
BILL No: 12 <u>FIRE FIGHTING SYSTEM</u>						
12.1	<u>GENERAL</u> a)Rates shall include for: sockets, running joints, connectors, elbows, junctions, reducers, expansion joints, back nuts, and similar incidental fittings, clips, saddles, brackets, straps, hangers screws nails and fixing complete including cutting and forming holes. b) Rate shall include for pipe works and inner and outer surface of all pipe work shall be galvanized steel. c)All wiring and pipe work shall be done as specified in the drawing. d)Shop drawings of the system shall be prepared to the standard of the government's relevant authority and submitted to the Consultant for approval.					
12.2	<u>FIRE ALARM SYSTEM</u> Heat Resistant cable shall be laid for connecting the detectors.					
1.0	<u>GROUND FLOOR</u>					
a)	<u>FIRE ALARM SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	5.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	5.00			
3)	Manual Call Point	no	12.00			
4)	Smoke Detector	no	4.00			
5)	Beacon	no	2.00			
6)	Sounder Bell	no	1.00			
7)	Exit Sign	no	12.00			
8)	Fire Alarm Control Panel	no	1.00			
2.0	<u>FIRST FLOOR</u>					
a)	<u>FIRE ALARM SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	3.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	3.00			
3)	Manual Call Point	no	7.00			
4)	Smoke Detector	no	2.00			
5)	Beacon	no	1.00			
6)	Sounder Bell	no	1.00			
7)	Exit Sign	no	10.00			
BILL No: 12 - FIRE FIGHTING SYSTEM TOTAL OF BILL No: 12 - Carried over to summary						
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