

Bill of Quantities

L.DHANBIDHOO - MULTIPURPOSE HALL AND 4 CLASS ROOM BLOCK

3

CLIENT
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

**PROJECT: K.HIMMAFUSHI - MULTIPURPOSE HALL AND 4 CLASS
ROOM BLOCK**

SUMMARY OF BILL OF QUANTITIES

Bl.no	Item Description	Amount
Note	PREAMBLE TO BILL OF QUANTITY	
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	-
	8% GST Mvr	-
	GRAND TOTAL Mvr	-

PROJECT : L.DHANBIDHOO - MULTIPURPOSE HALL AND 4 CLASS ROOM BLOCK

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
Note	<u>PREAMBLE TO BILL OF QUANTITY</u>					
	<u>1. General</u> a) The nature of this contract is measured unit price contract and the Bill of Quantity (BOQ) shall reflect this fact. b) BOQ shall be read and construed in conjunction with other Contract Documents c) The Tenderer is obliged to check the number of the pages of the Bill of Quantity and should any be found missing or duplicated or the figures or writing indistinct, the Tenderer must notify the Employer/Engineer at once and have the matter rectified before the Tender is submitted. No liability whatsoever will be accepted in respect of any claim for errors in the Tenderer's offer resulting from failure to comply with the foregoing. d) The Tenderer is deemed to have visited the site/s and fully acquainted himself as to the location of each of the items and works to be carried out and to all conditions which may affect the performance of the works, including but not limited to: -Access to each of the roads where solid waste transfer process will be carried out, and Access for the dump site. -Restrictions applicable to working in Male City area. -All safety regulations and employer site safety procedures. -All Safety regulations. e) The Tenderer is also deemed to have surveyed the actual condition of the site and buildings and made his own assessment of the type and extent of the works prior to submitting his offer					
	<u>2. Quantities</u> Even though that practical care was exercised in preparing the BOQ, but all quantities given herein shall be deemed to be estimated quantities of the work to be done but they are not to be taken as actual and correct quantities of the work to be executed and they are not to absolve the contractor of his obligations under the Contract. They are not to be taken as guarantee that the actual quantities increase or decrease, and any claim whatsoever submitted for cost or extra expenses incurred from such increase or decrease will not be accepted by Employer/Engineer except where else stipulated in the Contract.					
	<u>3. Materials</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<p>All materials used are to be of the best new available and subject to the Employer/Engineer approval, and of durable nature, guaranteed, not liable to any base exchange and manufactured according to applicable BS, ASTM or DIN Standards. Execution also is subject to approval of Employer/Engineer and shall be the best available common practice in engineering codes at the time of execution.</p> <p><u>4. Unit Price and Currency</u></p> <p>The Unit Prices entered against the various items in the following Bill of Quantities include all operations for execution, completion and maintenance of the various items of the works finished completely in every respect till the final acceptance as specified or described in the Tender Documents, with or without modifications, either by way of additions or deductions, or alterations as may be offered in writing during the progress of the works, and include, without being limited to, all matters and things particularly referred to in the Tender Documents.</p> <p>The Unit Price shall cover all costs of every kind whatsoever including, without being limited to, all charges for additional site installations, relocation, supervision, labor, transportation and supply of materials; the provision, maintenance, use and efficient repair of all plant, equipment and appliance of every kind, the construction and maintenance of all temporary works, the performance of all services and the fulfillment of all obligations and responsibilities herein defined.</p> <p>The Tenderer shall be deemed to have fully considered all the conditions, obligations, and requirements of the Tender Documents before entering the respective unit price against the various items of the Bill of Quantities.</p> <p>The Unit Prices given hereunder the BOQ shall also include erection, installation, fixing, and re-fixing of all elements. These prices shall also include taxes, visa for labor, gate passes, accommodations for the Contractor's staff and labors, all required insurance and work permits, guarantees, bonds, traffic plan requirements, safety procedures, etc. and all requirements necessary to have the work maintained until its final handing over.</p> <p>The Unit Prices given hereunder in the Bill of Quantity for this work shall also include overheads, risks, profit etc. and all other financial matters to have all these civil works completed.</p>					
PREAMBLE TO BILL OF QUANTITY						

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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.0.0	<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					
3.1.0	<u>LEAN CONCRETE</u> <u>50mm thick lean concrete below Foundation</u> Foundation Footings & Tie beams	m ²	163.48			
3.2.0	<u>REINFORCED CONCRETE</u>					
3.2.1	<u>FOUNDATIONS</u>					
1)	Foundations F1	m ³	33.14			
2)	Foundations F2	m ³	2.43			
3)	Foundations F3	m ³	8.78			
4)	Foundations F4	m ³	10.53			
5)	Foundations F5	m ³	1.62			
6)	Tie Beam TB	m ³	27.74			
7)	Tie Beam WF	m ³	11.91			
3.2.2	<u>GROUND FLOOR</u>					
	<u>COLUMNS</u>					
1)	C1	m ³	26.60			
2)	C2	m ³	3.60			
3)	C3	m ³	7.25			
4)	C4	m ³	3.00			
	<u>STAIRCASE</u>					
5)	R.c.c. Staircase	m ³	3.10			
	<u>R.C.C. GROUND FLOOR SLAB</u>					
6)	100mm thick R.C. slab	m ³	47.36			
3.2.3	<u>FIRST FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B2	m ³	12.93			
2)	B3	m ³	5.64			
3)	B4	m ³	16.28			
	<u>FLOOR SLAB</u>					
4)	150mm thick R.c.c. Floor Slab	m ³	46.05			
5)	160mm thick R.c.c. Floor Slab	m ³	12.64			
	<u>COLUMNS</u>					
6)	C1	m ³	23.28			
7)	C2	m ³	3.15			
8)	C3	m ³	6.34			
9)	C4	m ³	2.63			
	<u>STAIRCASE</u>					
10)	R.c.c. Staircase	m ³	3.10			
3.2.4	<u>SECOND FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B1	m ³	50.40			
2)	B1A	m ³	10.08			
3)	B2	m ³	5.36			
4)	B3	m ³	1.93			
5)	B4	m ³	13.91			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>FLOOR SLAB</u>					
6)	150mm thick R.c.c. Floor Slab	m ³	103.65			
	<u>COLUMNS</u>					
7)	C1	m ³	23.28			
8)	C2	m ³	3.15			
9)	C3	m ³	6.34			
10)	C4	m ³	2.63			
3.2.5	<u>ROOF LEVEL</u>					
	<u>ROOF BEAMS</u>					
1)	B2	m ³	11.41			
2)	B2 @ LR& SRB	m ³	1.38			
3)	B3	m ³	0.96			
4)	B3 @ LR& SRB	m ³	0.96			
5)	B4	m ³	9.28			
6)	B4 @ LR& SRB	m ³	0.81			
7)	WCB	m ³	2.28			
3.3.0	<u>FORM WORK</u> (a) Exposed surface shall have fair finish while remaining may have rough finish. (b) Timber used for unexposed concrete surface shall sound dressed and seasoned good quality common timber (c) Plywood used for forms shall be of commercial standard, moisture resistane concrete form plywoodnot lessthan 6mm thick and atleast 12mm thick. (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.					
3.3.1	<u>FOUNDATIONS</u>					
1)	Foundations F1	m ²	3.53			
2)	Foundations F2	m ²	2.70			
3)	Foundations F3	m ²	1.80			
4)	Foundations F4	m ²	1.32			
5)	Foundations F5	m ²	0.84			
6)	Tie Beam TB	m ²	221.90			
7)	Tie Beam WF	m ²	47.64			
3.3.2	<u>GROUND FLOOR</u>					
	<u>COLUMNS</u>					
1)	C1	m ²	208.00			
2)	C2	m ²	44.80			
3)	C3	m ²	116.00			
4)	C4	m ²	48.00			
	<u>STAIRCASE</u>					
5)	R.c.c. Staircase	m ²	28.50			
	<u>R.C.C. GROUND FLOOR SLAB</u>					
6)	100mm thick R.C. slab including Entrance Steps	m ²	18.32			
3.3.3	<u>FIRST FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B2	m ²	98.70			
2)	B3	m ²	43.05			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3)	B4 <u>FLOOR SLAB</u>	m ²	158.10			
4)	150mm thick R.c.c. Floor Slab	m ²	307.00			
5)	160mm thick R.c.c. Floor Slab <u>COLUMNS</u>	m ²	79.00			
6)	C1	m ²	182.00			
7)	C2	m ²	39.20			
8)	C3	m ²	101.50			
9)	C4 <u>STAIRCASE</u>	m ²	42.00			
10)	R.c.c. Staircase	m ²	30.00			
3.3.4	<u>SECOND FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B1	m ²	244.80			
2)	B1A	m ²	48.96			
3)	B2	m ²	40.95			
4)	B3	m ²	14.70			
5)	B4 <u>FLOOR SLAB</u>	m ²	135.15			
6)	150mm thick R.c.c. Floor Slab <u>COLUMNS</u>	m ²	691.00			
7)	C1	m ²	182.00			
8)	C2	m ²	39.20			
9)	C3	m ²	101.50			
10)	C4	m ²	42.00			
3.3.5	<u>ROOF LEVEL</u>					
	<u>ROOF BEAMS</u>					
1)	B2	m ²	87.15			
2)	B2 @ LR& SRB	m ²	8.50			
3)	B3	m ²	7.35			
4)	B3 @ LR& SRB	m ²	5.95			
5)	B4	m ²	90.10			
6)	B4 @ LR& SRB	m ²	10.80			
7)	WCB	m ²	38.00			
3.4.0	<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/mm2. (b) Stirrups shall be hot rolled mildsteel round bars complying with BS 1119, Characteristic strength not less than 250N/mm2 (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.					
3.4.1	<u>BELOW GROUND</u>					
	<u>FOUNDATIONS</u>					
1)	Foundations F1 12mm dia deformed bars - 6m	kg	1,737.17			
2)	Foundations F2 12mm dia deformed bars - 6m	kg	415.24			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3)	Foundations F3 10mm dia deformed bars - 6m	kg	139.50			
4)	Foundations F4 10mm dia deformed bars - 6m	kg	40.34			
5)	Foundations F5 10mm dia deformed bars - 6m	kg	6.62			
6)	Tie Beam TB 16mm dia deformed bars - 6m	kg	2,003.44			
	6mm dia deformed bars - 6m	kg	844.49			
7)	Tie Beam WF 12mm dia deformed bars - 6m	kg	519.76			
	6mm dia deformed bars - 6m	kg	172.86			
3.4.2	<u>GROUND FLOOR</u>					
	<u>COLUMNS</u>					
1)	C1 20mm dia deformed bars - 6m	kg	2,371.20			
	6mm dia deformed bars - 6m	kg	615.68			
2)	C2 20mm dia deformed bars - 6m	kg	632.32			
	6mm dia deformed bars - 6m	kg	132.61			
3)	C3 16mm dia deformed bars - 6m	kg	1,466.24			
	6mm dia deformed bars - 6m	kg	343.36			
4)	C4 12mm dia deformed bars - 6m	kg	606.72			
	6mm dia deformed bars - 6m	kg	142.08			
	<u>STAIRCASE</u>					
5)	10mm dia deformed bars - 6m	kg	86.80			
	<u>GROUND FLOOR SLAB</u>					
6)	10mm dia deformed bars - 6m	kg	4,557.00			
3.4.3	<u>FIRST FLOOR</u>					
	<u>SLAB BEAM</u>					
1)	B2 20mm dia deformed bars - 6m	kg	1,393.08			
	12mm dia deformed bars - 6m	kg	167.32			
	6mm dia deformed bars - 6m	kg	534.22			
2)	B3 20mm dia deformed bars - 6m	kg	405.08			
	10mm dia deformed bars - 6m	kg	50.84			
	6mm dia deformed bars - 6m	kg	116.51			
3)	B4 16mm dia deformed bars - 6m	kg	1,837.68			
	6mm dia deformed bars - 6m	kg	396.40			
	<u>FLOOR SLAB</u>					
	10mm dia deformed bars - 6m	kg	5,952.00			
	<u>COLUMNS</u>					
4)	C1 20mm dia deformed bars - 6m	kg	2,074.80			
	6mm dia deformed bars - 6m	kg	538.72			
5)	C2 20mm dia deformed bars - 6m	kg	553.28			
	6mm dia deformed bars - 6m	kg	116.03			
6)	C3 16mm dia deformed bars - 6m	kg	1,282.96			
	6mm dia deformed bars - 6m	kg	300.44			
7)	C4 12mm dia deformed bars - 6m	kg	530.88			
	6mm dia deformed bars - 6m	kg	124.32			
	<u>STAIRCASE</u>					
8)	10mm dia deformed bars - 6m	kg	86.80			
3.4.4	<u>SECOND FLOOR</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>SLAB BEAM</u>					
1)	B1					
	25mm dia deformed bars - 6m	kg	8,870.40			
	16mm dia deformed bars - 6m	kg	910.08			
	6mm dia deformed bars - 6m	kg	1,150.85			
2)	B1A					
	25mm dia deformed bars - 6m	kg	1,774.08			
	16mm dia deformed bars - 6m	kg	182.02			
	6mm dia deformed bars - 6m	kg	230.17			
3)	B2					
	20mm dia deformed bars - 6m	kg	1,393.08			
	12mm dia deformed bars - 6m	kg	167.32			
	6mm dia deformed bars - 6m	kg	534.22			
4)	B3					
	20mm dia deformed bars - 6m	kg	405.08			
	10mm dia deformed bars - 6m	kg	50.84			
	6mm dia deformed bars - 6m	kg	116.51			
5)	B4					
	16mm dia deformed bars - 6m	kg	1,837.68			
	6mm dia deformed bars - 6m	kg	396.40			
	<u>FLOOR SLAB</u>					
6)	10mm dia deformed bars - 6m	kg	12,152.00			
	<u>COLUMNS</u>					
7)	C1					
	20mm dia deformed bars - 6m	kg	2,074.80			
	6mm dia deformed bars - 6m	kg	538.72			
8)	C2					
	20mm dia deformed bars - 6m	kg	553.28			
	6mm dia deformed bars - 6m	kg	116.03			
9)	C3					
	16mm dia deformed bars - 6m	kg	1,282.96			
	6mm dia deformed bars - 6m	kg	300.44			
10)	C4					
	12mm dia deformed bars - 6m	kg	530.88			
	6mm dia deformed bars - 6m	kg	124.32			
3.4.5	<u>ROOF BEAMS</u>					
	<u>ROOF BEAMS</u>					
1)	B2					
	20mm dia deformed bars - 6m	kg	1,230.06			
	12mm dia deformed bars - 6m	kg	147.74			
	6mm dia deformed bars - 6m	kg	471.71			
	B2 @ LR& SRB					
	20mm dia deformed bars - 6m	kg	148.20			
	12mm dia deformed bars - 6m	kg	17.80			
	6mm dia deformed bars - 6m	kg	49.73			
2)	B3					
	16mm dia deformed bars - 6m	kg	88.48			
	6mm dia deformed bars - 6m	kg	33.15			
	B3 @ LR& SRB					
	16mm dia deformed bars - 6m	kg	88.48			
	6mm dia deformed bars - 6m	kg	29.01			
3)	B4					
	16mm dia deformed bars - 6m	kg	1,047.28			
	6mm dia deformed bars - 6m	kg	225.91			
4)	B4 @ LR& SRB					
	16mm dia deformed bars - 6m	kg	177.84			
	6mm dia deformed bars - 6m	kg	28.77			
5)	WCB					
	12mm dia deformed bars - 6m	kg	270.56			
	6mm dia deformed bars - 6m	kg	94.48			
	<u>FLOOR SLAB</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
6)	10mm dia deformed bars - 6m	kg	370.35			
3.4.6	<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 100mm thick R.c.c.Parapet wall at First floor and Second floor as per details. (Refer drawing no:A 18) Rate shall include for Shuttering and Reinforcement work complete.	item	1.00			
d)	<u>GROUND WATER WELL</u>					
	Charges for Construction and Installation of 1200mm dia. R.c.c. Ground water well, Base slab & Top cover slab as per drawing details. Rate shall include for; Excavation, form work, reinforcement, Lifting hooks, gravel filling etc complete.	item	1.00			
e)	<u>WASH BASIN COUNTER SLAB</u>					
	Charges for Construction and Installation of 75mm thick R.c.c. Counter slab for washbasin at Toilet block (Ground floor, First floor and Second floor) as per drawing details. Rate shall include for; form work, reinforcement etc complete.	item	1.00			
3.4.7	<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			
(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>						
4.0.0	<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 internal walls shall be 100mm thick Solid cement blocks and for masonry mix ratio 1:5 (cement and river sand)					
4.1.0	<u>MASONRY</u>					
4.1.1	<u>BELOW GROUND LEVEL</u>					
1)	150mm thick Solid block wall					
a)	300 x150 x 150mm solid block single wall - 150mm thick above all Tie beams.	m ²	468.00			
4.1.2	<u>GROUND FLOOR</u>					
1)	External walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	240.96			
2)	Interior walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	144.00			
4.1.3	<u>FIRST FLOOR</u>					
1)	External walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	231.42			
2)	Interior walls					
a)	300x150x150mm solid block single wall - 150mm thick	m ²	54.00			
4.1.4	<u>SECOND FLOOR</u>					
1)	External walls					
a)	300x150x200mm solid block single wall - 200mm thick	m ²	179.11			
2)	Interior walls					
a)	300x150x200mm solid block single wall - 200mm thick	m ²	268.43			
4.1.5	<u>ABOVE ROOF BEAM</u>					
1)	External walls 150mm thick					
a)	300x150x150mm solid block wall	m ²	118.00			
4.2.0	<u>PLASTERING</u>					

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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO: 05</u> <u>FLOORING & TILING</u>					
5.0.0	<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.					
5.1.0	<u>SCREEDING</u> <u>50mm thick Floor Screeding</u>					
5.1.1	<u>GROUND FLOOR</u>					
1)	Hall Area	m ²	392.94			
2)	Corridor Area	m ²	225.32			
3)	Store	m ²	21.00			
4)	Changing room	m ²	10.92			
5)	Toilet	m ²	20.85			
6)	Staircase	m ²	16.93			
5.1.2	<u>FIRST FLOOR</u>					
1)	Corridor	m ²	258.66			
2)	Store	m ²	7.00			
3)	Control room	m ²	6.95			
4)	Cat walk	m ²	73.42			
5)	Staircase	m ²	16.93			
5.1.3	<u>SECOND FLOOR</u>					
1)	Class rooms	m ²	213.82			
2)	Balcony & Corridor	m ²	410.31			
3)	Janitor Store	m ²	9.55			
4)	Store	m ²	13.82			
5)	Toilet	m ²	16.41			
5.2.0	<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.					
5.2.1	<u>GROUND FLOOR</u>					
	<u>FLOOR TILING</u>					
1)	Changing Rm (F)	m ²	5.19			
2)	Changing Rm (M)	m ²	5.73			
3)	Store 1	m ²	14.31			
4)	Store 2	m ²	5.90			
5)	Toilet (F)	m ²	7.12			
6)	Toilet (M)	m ²	13.73			
	<u>WALL TILING</u>					
7)	Toilet walls @ 3M height	m ²	66.00			
8)	Wash room walls @ 3m H	m ²	30.00			
5.2.2	<u>FIRST FLOOR</u>					
	<u>FLOOR TILING</u>					
1)	Controll Room	m ²	6.95			

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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL N0: 06</u> <u>DOORS AND WINDOWS</u>					
6.0.0	<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. (d) All louvres, windows and sliding doors shall be 30 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.					
6.1.1	<u>DOOR AND WINDOW FOR THE WHOLE BUILDING</u> <u>DOOR AND WINDOW UNITS</u>					
1)	D01	nos	7.00			
2)	D02	nos	2.00			
3)	D03	nos	8.00			
4)	D04	nos	1.00			
5)	D04	nos	8.00			
6)	D05	nos	1.00			
7)	D06	nos	3.00			
8)	D07	nos	8.00			
9)	D08	nos	1.00			
10)	D09	nos	6.00			
11)	D10	nos	1.00			
12)	W01	nos	15.00			
13)	W02	nos	3.00			
14)	W03	nos	4.00			
15)	W04	nos	6.00			
16)	W05	nos	7.00			
17)	W06	nos	4.00			
18)	W07	nos	8.00			
	BILL N0: 06 - DOORS AND WINDOWS TOTAL OF BILL No: 06 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 07</u> <u>WOOD WORK & CEILING</u>					
7.0.0	<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 preservatives as per manufactures instructions for all Timber structures. (c) Rates shall include for 9mm thick Cement board fixed on 35 x 50mm Timber frame,trimming, nails, screws,hooks, hangers, clips and similar.					
7.1.1	<u>GROUND FLOOR</u>					
	<u>CEILING</u>					
1)	Toilet (F)	m ²	7.12			
2)	Toilet (M)	m ²	13.73			
7.1.2	<u>SECOND FLOOR</u>					
	<u>CEILING</u>					
1)	Class 01	m ²	53.13			
2)	Class 02	m ²	52.84			
3)	Class 03	m ²	52.90			
5)	Class 05	m ²	53.78			
9)	Janitor Store 1	m ²	4.49			
10)	Janitor Store 2	m ²	5.06			
11)	Store 4	m ²	13.82			
12)	Toilet (F)	m ²	7.99			
13)	Toilet (M)	m ²	8.42			
7.2.1	<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			
7.3.1	<u>STAGE WORK</u>					
1)	25mm Marine grade hardwood flooring,Stage work as detail given in the drawing	item	1.00			
	BILL No: 07 - WOOD WORK & CEILING TOTAL OF BILL No: 07 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 08</u> <u>PAINTING</u>					
8.0.0	<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.					
8.1.1	<u>GROUND FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	240.96			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	528.96			
3)	Painting Soffit of slab (Ceiling)	m ²	650.00			
8.2.1	<u>FIRST FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	231.42			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	339.42			
3)	Painting Soffit of slab (Ceiling)	m ²	347.00			
8.3.1	<u>SECOND FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	179.11			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	727.36			
3)	Painting Soffit of slab (Ceiling)	m ²	365.00			
8.4.1	<u>ROOF LEVEL</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	118.00			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	118.00			
3)	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>					
9.0.0	<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.					
9.1.0	<u>RAILING</u>					
9.1.1	<u>GROUND FLOOR</u>					
1)	<u>GI. Railing - Staircase</u>					
a)	Supply, Fabrication and Fixing GI.S.Railing -Staircase as per details	item	1.00			
9.1.2	<u>FIRST FLOOR</u>					
1)	<u>GI. Railing - BALCONY</u>					
a)	Supply, Fabrication and Installation of GI.Railing - Staircase as per details (Refer drawing - A12)	item	1.00			
2)	<u>GI. Railing - Staircase</u>					
a)	Supply, Fabrication and Fixing GI.S.Railing -Staircase as per details	item	1.00			
9.1.3	<u>SECOND FLOOR</u>					
1)	<u>GI. Railing - BALCONY</u>					
a)	Supply, Fabrication and Installation of GI.Railing - Staircase as per details (Refer drawing - A12)	item	1.00			
9.2.1	<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 (21.6m)	nos	10.00			
2)	BR1 (3.2m)	nos	9.00			
3)	Supply and Fixing C - Purlins 50x100x2.5mm C purlins @ 900 C/C (36m)	nos	28.00			
4)	Roof Covering - Supply and Fixing BHP Lysaght Roofing sheet	m ²	810.00			
5)	50mm thick double side Aluminium Foiled Rock wool Insulation laid as heat resistant below roofing sheet.	m ²	810.00			
6)	25mm grid G.I. mesh laid as support to under the Rock wool insulation	m ²	810.00			
7)	Capping - Supply and Fixing 600mm wide Lysaght Ridge Capping	mtr	36.00			
8)	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			
9.3.1	<u>STAGE STEEL WORKS</u>					
1)	GI.S.Railing -Staircase Supply, Fabrication and Fixing as per details	item	1.00			
2)	GI.S.Railing -On top of the stage Supply, Fabrication and Fixing as per details	m	10.00			
3)	GI RHS @400 C/C, 75mm x 150mm 2.5mm Thick Supply, Fabrication and Fixing as per details	m	225.00			
3)	Steel Stair- Supply, Fabrication and Fixing as per details	item	1.00			
4)	Pull Out Drawer Under Stage - Supply, Fabrication and Instalation as per details	item	3.00			
5)	Portable Rampe for stage- Supply, Fabrication and Instalation as per details	item	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 09 - METAL WORK					
	TOTAL OF BILL No: 09 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<p align="center"><u>BILL No: 10</u></p> <p align="center"><u>HYDRAULICS & DRAINAGE</u></p> <p>10.0.0 General</p> <p>(a) Design provide and install plumbing network for the entire building complete in accordance to standard set by the local governing body MWSC</p> <p>(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.</p> <p>(c) Ground water connection shall be made as specified in the drawings.</p> <p>(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.</p> <p>(e) All pipes shall be High Pressure uPVC "Mutha" or equivalent brand.</p>					
10.1.0	<u>GROUND FLOOR</u>					
10.1.1	<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.	nos	1.00			
10.1.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Basin Faucet	nos	3.00			
2)	Bidet Shower	nos	4.00			
3)	Wash Basin	nos	3.00			
4)	Water Closet	nos	4.00			
5)	Gate Valve	nos	5.00			
6)	Floor Drain	nos	4.00			
7)	Gully Trap	nos	1.00			
8)	Manhole	nos	1.00			
9)	Bottle Trap	nos	3.00			
10)	Clean Out Point	nos	2.00			
11)	Angle Valve with Cap for Water Closet from Ground Water Supply	nos	4.00			
10.1.3	<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
10.2.0	<u>FIRST FLOOR</u>					
10.2.1	<u>HYDRAULICS</u>					
1)	Charges for Piping for fresh water Pipe work	item	1.00			
2)	Charges for Piping for Ground water supply pipe work.	item	1.00			
10.2.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Drain	nos	4.00			
10.2.3	<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			
10.3.0	<u>SECOND FLOOR</u>					
10.3.1	<u>HYDRAULICS</u>					
1)	Charges for Piping for fresh water Pipe work	item	1.00			
2)	Charges for Piping for Ground water supply pipe work.	item	1.00			
10.3.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Basin Faucet	nos	2.00			
2)	Bidet Shower	nos	4.00			
3)	Wash Basin	nos	2.00			
4)	Water Closet	nos	4.00			
5)	Gate Valve	nos	6.00			
6)	Floor Drain	nos	6.00			
7)	Gully Trap	nos	2.00			
8)	Bottle Trap	nos	2.00			
9)	Angle Valve with Cap for Water Closet from Ground Water Supply	nos	4.00			
10.3.3	<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			
10.4.0	<u>ROOF LEVEL</u>					
10.4.1	<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						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
<p align="center"><u>BILL No: 11</u> <u>ELECTRICAL INSTALLATIONS</u></p>						
11.0.0	<u>General</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 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.</p> <p>(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;</p> <p>(e) Rates shall include for supply and complete installation of fittings and fixtures.</p>					
11.1.0	<u>GROUND FLOOR</u>					
11.1.1	<u>ELECTRIC BOARDS</u>					
1)	Supply and Installation of Utility Regulatory Authority approved Main Panel Board with kWh Meter	nos	1.00			
2)	Wiring connection to Main Panel Board from Main Electricity network	item	1.00			
3)	Supply and Installation of Utility Regulation Authority approved brand Distribution board	nos	2.00			
11.1.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Light (12W)	nos	6.00			
2)	Ceiling Light (18W)	nos	2.00			
3)	Recessed Ceiling Light (12W)	nos	7.00			
5)	Weather Proof Wall Light IP55 (12W)	nos	20.00			
6)	Ceiling Mounted Exhaust Fan	nos	4.00			
7)	Light Switch (1 Gang)	nos	8.00			
8)	Light Switch (2 Gang)	nos	6.00			
9)	Light Switch (3 Gang)	nos	3.00			
10)	Light Switch (4 Gang)	nos	14.00			
11)	Light Switch (5 Gang)	nos	12.00			
12)	13A Power Socket	nos	9.00			
13)	13A Twin Socket	nos	31.00			
14)	Emergency Light	nos	9.00			
15)	Wall Mounted Speaker	nos	10.00			
11.1.3	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	82.00			
2)	2.5mm ² Wiring to Power Points	points	40.00			
3)	16mm ² Cabling to DBs	item	2.00			
4)	Cabling - Connection of speaker to public address system	points	10.00			
11.2.0	<u>FIRST FLOOR</u>					
11.2.1	<u>ELECTRIC BOARDS</u>					
1)	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	nos	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
11.2.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Light (12W)	nos	5.00			
2)	Ceiling Light (18W)	nos	2.00			
3)	Weather Proof Wall Light IP55 (12W)	nos	18.00			
5)	2 x 50W PLL Tube Light	nos	52.00			
6)	48 inch To 48 inch Ceiling Fan	nos	40.00			
7)	Light Switch (1 Gang)	nos	2.00			
8)	Light Switch (3 Gang)	nos	3.00			
9)	13A Power Socket	nos	8.00			
10)	13A Twin Socket	nos	15.00			
12)	Computer Network Outlet	nos	1.00			
13)	Emergency Light	nos	8.00			
14)	Telephone Outlet	nos	1.00			
15)	Public Address System	nos	1.00			
16)	Wall Mounted Speaker	nos	4.00			
11.2.3	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	122.00			
2)	2.5mm ² Wiring to Power Points	points	23.00			
3)	16mm ² Cabling to DBs	item	1.00			
5)	Cabling - Telephone points	points	1.00			
6)	Cabling - Data Network points (CAT6)	points	1.00			
7)	Cabling - Connection of speaker to public address system	points	4.00			
11.3.0	<u>SECOND FLOOR</u>					
11.3.1	<u>ELECTRIC BOARDS</u>					
1)	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	item	10.00			
11.3.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Down Light (18W) - Weather Proof	nos	14.00			
2)	Ceiling Light (12W)	nos	3.00			
3)	Ceiling Light (18W)	nos	4.00			
4)	Recessed Ceiling Light (12W)	nos	6.00			
5)	3 Ft Led Tube Light	nos	36.00			
6)	42 inch To 48 inch Ceiling Fan	nos	24.00			
7)	Ceiling Mounted Exhaust Fan	nos	4.00			
8)	Light Switch (1 Gang)	nos	3.00			
9)	Light Switch (2 Gang)	nos	8.00			
10)	Light Switch (3 Gang)	nos	1.00			
11)	Light Switch (4 Gang)	nos	2.00			
12)	Light Switch (5 Gang)	nos	12.00			
13)	13A Power Socket	nos	13.00			
14)	13A Twin Socket	nos	25.00			
	15A Switched Socket at High Level		8.00			
	Distribution Board		8.00			
15)	Computer Network Outlet	nos	4.00			
16)	Emergency Light	nos	9.00			
17)	HDMI Socket	nos	16.00			
18)	Wall Mounted Speaker	nos	4.00			
11.3.3	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	91.00			
2)	2.5mm ² Wiring to Power Points	points	46.00			
3)	16mm ² Cabling to DBs	item	8.00			
4)	Cabling - Data Network points (CAT6)	points	4.00			
5)	Cabling - HDMI Points	points	16.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
6)	Cabling - Connection of speaker to public address system	points	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>						
12.0.0	<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.					
12.1.0	<u>FIRE ALARM SYSTEM</u>					
	Heat Resistant cable shall be laid for connecting the detectors.					
12.1.1	<u>GROUND FLOOR</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	nos	5.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	nos	5.00			
3)	Manual Call Point	nos	12.00			
4)	Smoke Detector	nos	4.00			
5)	Beacon	nos	2.00			
6)	Sounder Bell	nos	1.00			
7)	End Of Line Resistance	nos	1.00			
8)	Exit Sign	nos	12.00			
9)	Fire Alarm Control Panel		1.00			
12.1.2	<u>FIRST FLOOR</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	nos	3.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	nos	3.00			
3)	Manual Call Point	nos	7.00			
4)	Smoke Detector	nos	2.00			
5)	Beacon	nos	1.00			
6)	Sounder Bell	nos	1.00			
7)	Exit Sign	nos	11.00			
12.1.3	<u>SECOND FLOOR</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	nos	2.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	nos	2.00			
3)	Manual Call Point	nos	2.00			
4)	Smoke Detector	nos	7.00			
5)	Beacon	nos	2.00			
6)	Sounder Bell	nos	1.00			
7)	Exit Sign	nos	4.00			
BILL No: 12 - FIRE FIGHTING SYSTEM						
TOTAL OF BILL No: 12 - Carried over to summary						

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