

Bill of Quantities

K.Gulhi Multipurpose Hall & 6 Classroom

CLIENT

**MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES**

Project: K.Gulhi Multipurpose Hall & 6 Classroom
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	WOOD WORK & CEILING	
8	PAINTING	
9	METAL WORK	
10	HYDRAULICS & DRAINAGE	
11	ELECTRICAL INSTALLATIONS	
12	FIRE FIGHTING SYSTEM	
13	STAGE WORKS	
14	ADDITIONS	
15	OMISSIONS	
	TOTAL Mvr	-
	6% GST Mvr	-
	GRAND TOTAL Mvr	-

Project : K.Gulhi Multipurpose Hall & 6 Classroom

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>PREAMBLE TO BILL OF QUANTITY</u>					
Note	<p><u>1. General</u></p> <p>a) The nature of this contract is measured unit price contract and the Bill of Quantity (BOQ) shall reflect this fact.</p> <p>b) BOQ shall be read and construed in conjunction with other Contract Documents</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> -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. <p>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</p> <p><u>2. Quantities</u></p> <p>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.</p>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<p><u>3. Materials</u></p> <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						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 01 PRELIMINARIES					
1.1.0	<u>General Notes</u>					
1)	<u>Abbreviations</u> m - metre no - numbers m³ - cubic metre m² - square metre m - metre t - tonnes incl - including mm - millimetre dia - diameter SS - Stainless Steel GI - Galvanised Iron					
1.2.0	<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			
1.3.0	<u>Sign Board</u>					
1)	Allow for sign board.	item	1.00			
1.4.0	<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			
1.5.0	<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						

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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					
3.1.1	<u>LEAN CONCRETE</u> <u>50mm thick lean concrete below Foundation</u> Foundation Footings & Tie beams	m ²	187.21			
3.2.0	<u>REINFORCED CONCRETE</u>					
3.2.1	<u>FOUNDATIONS</u>					
1)	Foundations F1	m ³	15.46			
2)	Foundations F2	m ³	23.23			
3)	Foundations F3	m ³	6.40			
4)	Foundations F4	m ³	6.38			
5)	Tie Beam TB1	m ³	19.69			
6)	Wall Footing (WF)	m ³	1.50			
3.2.2	<u>GROUND FLOOR</u>					
	<u>COLUMNS</u>					
1)	C1	m ³	12.47			
2)	C2	m ³	2.16			
3)	C3	m ³	2.03			
	<u>STAIRCASE</u>					
4)	R.c.c. Staircase	m ³	3.10			
	<u>R.C.C. GROUND FLOOR SLAB</u>					
5)	100mm thick R.C.C slab	m ³	50.00			
3.2.3	<u>FIRST FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B1	m ³	3.30			
2)	B2	m ³	4.73			
3)	B3	m ³	2.78			
	<u>FLOOR SLAB</u>					
4)	165mm thick R.c.c. Floor Slab	m ³	18.94			
5)	150mm thick R.c.c. Floor Slab	m ³	6.26			
	<u>COLUMNS</u>					
6)	C1	m ³	10.40			
7)	C2	m ³	1.80			
8)	C3	m ³	1.69			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m	m ³	4.03			
10)	Cat Walk wall 1.0m	m ³	3.82			
	<u>STAIRCASE</u>					
11)	R.c.c. Staircase	m ³	3.10			
3.2.4	<u>SECOND FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B1	m ³	14.69			
2)	B1A	m ³	2.64			
3)	B2	m ³	1.73			
4)	B4	m ³	4.35			
	<u>FLOOR SLAB</u>					
5)	150mm thick R.c.c. Floor Slab	m ³	53.40			
	<u>COLUMNS</u>					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
6)	C1	m ³	10.39			
7)	C2	m ³	1.80			
8)	C3	m ³	1.69			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m	m ³	3.43			
	<u>STAIRCASE</u>					
10)	R.c.c. Staircase	m ³	3.10			
3.2.5	<u>THIRD FLOOR</u>					
	<u>SLAB BEAMS</u>					
1)	B1	m ³	11.39			
2)	B1A	m ³	2.64			
3)	B2	m ³	1.73			
4)	B4	m ³	3.75			
	<u>FLOOR SLAB</u>					
6)	150mm thick R.c.c. Floor Slab	m ³	53.40			
	<u>COLUMNS</u>					
7)	C1	m ³	10.40			
8)	C2	m ³	1.80			
9)	C3	m ³	1.69			
	<u>RC Walls</u>					
10)	Balcony wall 1.2m	m ³	3.43			
3.2.6	<u>ROOF LEVEL</u>					
	<u>ROOF BEAMS</u>					
1)	B1	m ³	1.95			
2)	B1A	m ³	0.53			
3)	B2	m ³	2.59			
4)	B4	m ³	8.20			
5)	SRB@Gable Level	m ³	1.13			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.3.0	<p align="center"><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 timber</p> <p>(c) Plywood used for forms shall be of commercial standard, moisture resistane concrete form plywoodnot lessthan 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>					
3.3.1	<u>FOUNDATIONS</u>					
1)	Foundations F1	m ²	26.32			
2)	Foundations F2	m ²	42.24			
3)	Foundations F3	m ²	12.80			
4)	Foundations F4	m ²	18.90			
5)	Tie Beam TB1	m ²	157.50			
6)	Wall Footing (WF)	m ²	6.00			
3.3.2	<u>GROUND FLOOR COLUMNS</u>					
1)	C1	m ²	116.64			
2)	C2	m ²	28.08			
3)	C3	m ²	32.40			
	<u>STAIRCASE</u>					
4)	R.c.c. Staircase	m ²	28.50			
	<u>R.C.C. GROUND FLOOR SLAB</u>					
5)	100mm thick R.C. slab including Entrance Steps	m ²	10.32			
3.3.3	<u>FIRST FLOOR SLAB BEAMS</u>					
1)	B1	m ²	22.00			
2)	B2	m ²	37.80			
3)	B3	m ²	22.20			
	<u>FLOOR SLAB</u>					
4)	165mm thick R.c.c. Floor Slab	m ²	114.80			
5)	150mm thick R.c.c. Floor Slab	m ²	41.70			
	<u>COLUMNS</u>					
6)	C1	m ²	97.20			
7)	C2	m ²	23.40			
8)	C3	m ²	27.00			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m	m ²	80.88			
10)	Cat Walk wall 1.2m	m ²	76.60			
	<u>STAIRCASE</u>					
11)	R.c.c. Staircase	m ²	28.50			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.3.4	<u>SECOND FLOOR</u> <u>SLAB BEAMS</u>					
1)	B1	m ²	93.45			
2)	B1A	m ²	17.44			
3)	B2	m ²	13.57			
4)	B4	m ²	33.93			
	<u>FLOOR SLAB</u>					
5)	150mm thick R.c.c. Floor Slab	m ²	356.00			
	<u>COLUMNS</u>					
6)	C1	m ²	97.20			
7)	C2	m ²	23.40			
8)	C3	m ²	27.00			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m	m ²	68.88			
	<u>STAIRCASE</u>					
10)	R.c.c. Staircase	m ²	28.50			
3.3.5	<u>THIRD FLOOR</u> <u>SLAB BEAMS</u>					
1)	B1	m ²	72.45			
2)	B1A	m ²	17.44			
3)	B2	m ²	13.57			
4)	B4	m ²	29.25			
	<u>FLOOR SLAB</u>					
5)	150mm thick R.c.c. Floor Slab	m ²	356.00			
	<u>COLUMNS</u>					
6)	C1	m ²	97.20			
7)	C2	m ²	23.40			
8)	C3	m ²	27.00			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m	m ²	68.88			
3.3.5	<u>ROOF LEVEL</u> <u>ROOF BEAMS</u>					
1)	B1	m ²	12.09			
2)	B1A	m ²	3.25			
3)	B2	m ²	20.70			
4)	B4	m ²	65.59			
5)	SRB@Gable Level	m ²	15.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
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/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. <u>BELOW GROUND</u>					
3.4.1	<u>FOUNDATIONS</u>					
1)	Foundations F1 12mm dia deformed bars - 6m	kg	688.10			
2)	Foundations F2 12mm dia deformed bars - 6m	kg	827.06			
3)	Foundations F3 12mm dia deformed bars - 6m	kg	189.87			
4)	Foundations F4 12mm dia deformed bars - 6m	kg	216.27			
5)	Tie Beam TB1 16mm dia deformed bars - 6m	kg	1,422.00			
	6mm dia deformed bars - 6m	kg	599.40			
6)	Wall Footing (WF) 12mm dia deformed bars - 6m	kg	71.20			
	6mm dia deformed bars - 6m	kg	23.68			
3.4.2	<u>GROUND FLOOR</u>					
	<u>COLUMNS</u>					
1)	C1 20mm dia deformed bars - 6m	kg	2,134.08			
	6mm dia deformed bars - 6m	kg	460.34			
2)	C2 20mm dia deformed bars - 6m	kg	569.09			
	6mm dia deformed bars - 6m	kg	110.82			
3)	C3 16mm dia deformed bars - 6m	kg	546.05			
	6mm dia deformed bars - 6m	kg	127.87			
	<u>STAIRCASE</u>					
4)	10mm dia deformed bars - 6m	kg	86.80			
	<u>GROUND FLOOR SLAB</u>					
5)	10mm dia deformed bars - 6m	kg	3,100.00			
3.4.3	<u>FIRST FLOOR</u>					
	<u>SLAB BEAM</u>					
1)	B1 25mm dia deformed bars - 6m	kg	693.00			
	12mm dia deformed bars - 6m	kg	71.20			
	10mm dia deformed bars - 6m	kg	297.60			
2)	B2 20mm dia deformed bars - 6m	kg	933.66			
	12mm dia deformed bars - 6m	kg	112.14			
	6mm dia deformed bars - 6m	kg	261.07			
3)	B3 20mm dia deformed bars - 6m	kg	365.56			
	12mm dia deformed bars - 6m	kg	65.86			
	6mm dia deformed bars - 6m	kg	183.99			
	<u>FLOOR SLAB</u>					
4)	10mm dia deformed bars - 6m	kg	1,271.00			
5)	12mm dia deformed bars - 6m	kg	1,824.50			
	<u>COLUMNS</u>					
6)	C1					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	20mm dia deformed bars - 6m	kg	1,333.80			
	6mm dia deformed bars - 6m	kg	287.71			
7)	C2					
	20mm dia deformed bars - 6m	kg	355.68			
	6mm dia deformed bars - 6m	kg	69.26			
8)	C3					
	16mm dia deformed bars - 6m	kg	341.28			
	6mm dia deformed bars - 6m	kg	79.92			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m					
	10mm dia deformed bars - 6m	kg	249.98			
10)	Cat Walk wall 1.0m					
	10mm dia deformed bars - 6m	kg	236.84			
	<u>STAIRCASE</u>					
11)	10mm dia deformed bars - 6m	kg	86.80			
3.4.4	<u>SECOND FLOOR</u>					
	<u>SLAB BEAM</u>					
1)	B1					
	25mm dia deformed bars - 6m	kg	3,083.85			
	12mm dia deformed bars - 6m	kg	316.84			
	10mm dia deformed bars - 6m	kg	735.73			
2)	B1A					
	25mm dia deformed bars - 6m	kg	554.40			
	12mm dia deformed bars - 6m	kg	56.96			
	10mm dia deformed bars - 6m	kg	47.36			
3)	B2					
	20mm dia deformed bars - 6m	kg	340.86			
	12mm dia deformed bars - 6m	kg	40.94			
	6mm dia deformed bars - 6m	kg	95.31			
4)	B4					
	16mm dia deformed bars - 6m	kg	549.84			
	6mm dia deformed bars - 6m	kg	185.41			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>FLOOR SLAB</u>					
5)	10mm dia deformed bars - 6m	kg	4,358.60			
	<u>COLUMNS</u>					
6)	C1					
	20mm dia deformed bars - 6m	kg	1,333.80			
	6mm dia deformed bars - 6m	kg	287.71			
7)	C2					
	20mm dia deformed bars - 6m	kg	355.68			
	6mm dia deformed bars - 6m	kg	69.26			
8)	C3					
	16mm dia deformed bars - 6m	kg	341.28			
	6mm dia deformed bars - 6m	kg	79.92			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m					
	10mm dia deformed bars - 6m	kg	212.78			
	<u>STAIRCASE</u>					
10)	10mm dia deformed bars - 6m	kg	86.80			
3.4.5	<u>THIRD FLOOR</u>					
	<u>SLAB BEAM</u>					
1)	B1					
	25mm dia deformed bars - 6m	kg	2,390.85			
	12mm dia deformed bars - 6m	kg	245.64			
	10mm dia deformed bars - 6m	kg	427.80			
2)	B1A					
	25mm dia deformed bars - 6m	kg	554.40			
	12mm dia deformed bars - 6m	kg	56.96			
	10mm dia deformed bars - 6m	kg	132.27			
3)	B2					
	20mm dia deformed bars - 6m	kg	340.86			
	12mm dia deformed bars - 6m	kg	40.94			
	6mm dia deformed bars - 6m	kg	95.31			
4)	B4					
	16mm dia deformed bars - 6m	kg	474.00			
	6mm dia deformed bars - 6m	kg	319.68			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>FLOOR SLAB</u>					
5)	10mm dia deformed bars - 6m	kg	4,358.60			
	<u>COLUMNS</u>					
6)	C1					
	20mm dia deformed bars - 6m	kg	1,333.80			
	6mm dia deformed bars - 6m	kg	287.71			
7)	C2					
	20mm dia deformed bars - 6m	kg	355.68			
	6mm dia deformed bars - 6m	kg	69.26			
8)	C3					
	16mm dia deformed bars - 6m	kg	341.28			
	6mm dia deformed bars - 6m	kg	79.92			
	<u>RC Walls</u>					
9)	Balcony wall 1.2m					
	10mm dia deformed bars - 6m	kg	212.78			
3.4.6	<u>ROOF BEAMS</u>					
	<u>ROOF BEAMS</u>					
1)	B1					
	25mm dia deformed bars - 6m	kg	322.25			
	12mm dia deformed bars - 6m	kg	33.11			
	10mm dia deformed bars - 6m	kg	76.88			
2)	B1A					
	25mm dia deformed bars - 6m	kg	86.63			
	12mm dia deformed bars - 6m	kg	8.90			
	10mm dia deformed bars - 6m	kg	20.67			
3)	B2					
	20mm dia deformed bars - 6m	kg	340.86			
	12mm dia deformed bars - 6m	kg	40.94			
	6mm dia deformed bars - 6m	kg	142.97			
4)	B4					
	16mm dia deformed bars - 6m	kg	592.18			
	6mm dia deformed bars - 6m	kg	499.23			
5)	SRB@Gable Level					
	12mm dia deformed bars - 6m	kg	133.50			
	6mm dia deformed bars - 6m	kg	24.98			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.4.6 a)	<u>OTHER CONCRETE WORKS</u> <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			
3.4.7 (a)	<u>WATER PROOFING & ADD MIXTURES</u> Apply Rubberised bitumin water proofing paint, 2 coats to all exposed concrete and masonry surface below ground level.	item	1.00			
(b)	Add approved water proofing admixture as per specification to all concrete below ground level.	item	1.00			
(c)	Add Plasticiser admixture 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
	<p align="center"><u>BILL No: 04</u></p> <p align="center"><u>MASONRY AND PLASTERING</u></p>					
4.1.0	<p><u>General</u></p> <p>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.</p> <p>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.</p> <p>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)</p>					
4.1.1	<p><u>MASONRY</u></p> <p><u>BELOW GROUND LEVEL</u></p> <p>150mm thick Solid block single wall above all Tie</p>					
1)	beams.	m ²	101.25			
4.2.1	<p><u>GROUND FLOOR</u></p> <p>1)</p>					
a)	External walls					
100mm thick Solid block single wall		m ²	203.07			
2)	Interior walls					
a)	100mm thick Solid block single wall	m ²	65.13			
4.3.1	<p><u>FIRST FLOOR</u></p> <p>1)</p>					
a)	External walls					
100mm thick Solid block single wall		m ²	203.55			
2)	Interior walls					
a)	100mm thick Solid block single wall	m ²	58.11			
4.4.1	<p><u>SECOND FLOOR</u></p> <p>1)</p>					
a)	External walls					
100mm thick Solid block single wall		m ²	140.76			
2)	Interior walls					
a)	100mm thick Solid block single wall	m ²	135.30			
4.5.1	<p><u>THIRD FLOOR</u></p> <p>1)</p>					
a)	External walls					
100mm thick Solid block single wall		m ²	132.22			
2)	Interior walls					
a)	100mm thick Solid block single wall	m ²	133.62			
4.6.1	<p><u>ABOVE ROOF BEAM</u></p> <p>1)</p>					
a)	External walls 150mm thick					
150mm thick Solid block single wall		m ²	15.00			

[illegible]

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO: 05</u> <u>FLOORING & TILING</u>					
5.1.0	<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. <u>FLOORING</u> <u>50mm thick Floor Screeding</u>					
5.1.1	<u>GROUND FLOOR</u>					
1)	Corridor	m ²	145.00			
2)	Hall Area	m ²	240.00			
3)	Changing room F	m ²	2.40			
4)	Changing room M	m ²	2.40			
5)	Toilet F	m ²	2.40			
6)	Toilet M	m ²	2.40			
7)	Toilet (disable)	m ²	4.90			
8)	Staircase	m ²	20.00			
5.1.2	<u>FIRST FLOOR</u>					
1)	Corridor	m ²	50.50			
2)	Store Rm	m ²	30.40			
3)	Control Rm	m ²	12.60			
4)	Cat Walk	m ²	57.80			
5)	Staircase	m ²	20.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
5.1.3	<u>SECOND FLOOR</u>					
1)	Corridor	m ²	62.00			
2)	Class Rooms	m ²	164.00			
3)	Store 1	m ²	2.50			
4)	Store 2	m ²	2.50			
5)	Toilet F	m ²	12.00			
6)	Toilet M	m ²	8.00			
7)	Staircase	m ²	20.00			
5.1.4	<u>THIRD FLOOR</u>					
1)	Corridor	m ²	62.00			
2)	Class Rooms	m ²	164.00			
3)	Store 1	m ²	2.50			
4)	Store 2	m ²	2.50			
5)	Toilet F	m ²	12.00			
6)	Toilet M	m ²	8.00			
5.2.1	<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.					
5.2.2	<u>GROUND FLOOR</u>					
A)	<u>FLOOR TILING</u>					
1)	Corridor	m ²	145.00			
2)	Changing room F	m ²	2.40			
3)	Changing room M	m ²	2.40			
4)	Toilet F	m ²	2.40			
5)	Toilet M	m ²	2.40			
6)	Toilet (disable)	m ²	4.90			
7)	Staircase	m ²	20.00			
B)	<u>WALL TILING</u>					
	Toilet walls @ 2.8m height	m ²	124.60			

[illegible]

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO: 06</u> <u>DOORS AND WINDOWS</u>					
6.1.0	<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. 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.					
6.2.0	<u>GROUND FLOOR</u> <u>DOOR UNITS</u> External					
1)	D1	no	1.00			
2)	D4	no	3.00			
3)	D5	no	1.00			
4)	W2	no	3.00			
5)	W3	no	2.00			
	Internal					
5)	D1	no	4.00			
6)	D3	no	1.00			
6.3.0	<u>FIRST FLOOR</u> <u>DOOR UNITS</u> External					
1)	D1	no	1.00			
2)	D4	no	3.00			
3)	W2	no	5.00			
	Internal					
4)	D1	no	1.00			
6.4.0	<u>SECOND FLOOR</u> <u>DOOR UNITS</u> External					
1)	D7	no	6.00			
2)	W1	no	7.00			
	Internal					
3)	D1	no	4.00			
4)	D2	no	2.00			
5)	D3	no	2.00			
6.5.0	<u>THIRD FLOOR</u> <u>DOOR UNITS</u> External					
1)	D7	no	6.00			
2)	W1	no	7.00			
	Internal					
3)	D1	no	4.00			
4)	D2	no	2.00			
5)	D3	no	2.00			
	BILL NO: 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>					
7.1.0	<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.					
7.2.0	<u>GROUND FLOOR</u> <u>CEILING</u>					
1)	Toilets	m ²	9.70			
7.3.0	<u>SECOND FLOOR</u> <u>CEILING</u>					
1)	Toilet F	m ²	20.00			
7.4.0	<u>THIRD FLOOR</u> <u>CEILING</u>					
1)		0 m ²	251.00			
7.4.1	<u>WOOD WORK</u>					
1)	Timber Fascia Board: Supply and Fixing 50 x 200mm wide Timber Fascia board complete including Paint finishes.	mtr	52.00			
	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>					
8.1.0	<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.					
8.2.0	<u>GROUND FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	203.07			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	333.33			
3)	Painting Soffit of slab (Ceiling)	m ²	179.50			
8.3.0	<u>FIRST FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	203.55			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	319.77			
3)	Painting Soffit of slab (Ceiling)	m ²	151.30			
8.4.0	<u>SECOND FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	140.76			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	411.36			
3)	Painting Soffit of slab (Ceiling)	m ²	251.00			
8.5.0	<u>THIRD FLOOR</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	132.22			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	399.46			
3)	Painting Soffit of slab (Ceiling)	m ²	251.00			
8.6.0	<u>ROOF LEVEL</u>					
1)	Painting exterior surfaces of External Wall, Columns & beams.	m ²	15.00			
2)	Painting interior surfaces Wall, Columns & beams)	m ²	15.00			
3)	Eave Ceiling	m ²	72.00			
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>					
9.1.0	<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.					
9.2.1	<u>RAILING</u>					
9.3.1	<u>GROUND FLOOR</u>					
1)	<u>Gl. Railing - Staircase</u> Supply, Fabrication and Fixing Gl.S.Railing -Staircase as per details	item	1.00			
9.4.1	<u>FIRST FLOOR</u>					
1)	<u>Gl. Railing - Staircase</u> Supply, Fabrication and Fixing Gl.S.Railing -Staircase as per details	item	1.00			
9.5.1	<u>SECOND FLOOR</u>					
1)	<u>Gl. Railing - Staircase</u> Supply, Fabrication and Fixing Gl.S.Railing -Staircase as per details	item	1.00			
9.5.1	<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	nos	9.00			
5)	Bracing pipe 60.3mmØ x 3.2mm pipe	m	27.00			
6)	Supply and Fixing C - Purlins 50x100x2.5mm C purlins @ 900 C/C	m	486.00			
7)	Roof Covering - Supply and Fixing BHP Lysaght Roofing sheet	m ²	337.50			
8)	50mm mineral wool insulation between purlins	m ²	337.50			
9)	Capping - Supply and Fixing 600mm wide Lysaght Ridge Capping	m	27.00			
10)	Gutter - Supply and Fixing 200 x 200mm Lysaght Gutter complete including brackets and clips.	m	54.00			
	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>					
10.1.0	<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.					
10.2.0	<u>GROUND FLOOR</u>					
10.2.1	<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			
10.2.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Gully	no	3.00			
2)	Manhole	no	1.00			
3)	Bottle Trap	no	4.00			
4)	Rodding Eye	no	2.00			
5)	Basin Faucet	no	3.00			
6)	Bidet Shower	no	3.00			
7)	Wash Basin	no	3.00			
8)	Water Closet	no	3.00			
9)	Angle Valve with cap for Ground Water	no	3.00			
10)	Gate Valve	no	4.00			
11)	MWSC Meter	no	1.00			
10.2.3	<u>DRAINAGE</u>					
10.2.4	<u>SEWERAGE & DRAINAGE</u> : Charges for piping for all discharge pipes, sewerage and drainage pipes including connection to Main Sewer network from the Fixtures.	item	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
10.3.0	<u>SECOND FLOOR</u>					
10.3.1	<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			
10.3.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Drain	no	1.00			
2)	Floor Gully	no	3.00			
3)	Bottle Trap	no	2.00			
4)	Basin Faucet	no	2.00			
5)	Bidet Shower	no	4.00			
6)	Wash Basin	no	2.00			
7)	Water Closet	no	4.00			
8)	Angle Valve with cap for Ground Water	no	4.00			
9)	Gate Valve	no	2.00			
11)	Angle Valve with cap for Ground Water	no	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 to Main Sewer pipe from the Fixtures.	item	1.00			
10.4.0	<u>THIRD FLOOR</u>					
10.4.1	<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			
10.4.2	<u>SANITARY FIXTURES & ACCESSORIES</u>					
1)	Floor Drain	no	1.00			
2)	Floor Gully	no	3.00			
3)	Bottle Trap	no	2.00			
4)	Basin Faucet	no	2.00			
5)	Bidet Shower	no	4.00			
6)	Wash Basin	no	2.00			
7)	Water Closet	no	4.00			
5)	Angle Valve with cap for Ground Water	no	4.00			
6)	Gate Valve	no	2.00			
10.4.3	<u>DRAINAGE</u>					
1)	<u>SEWERAGE & DRAINAGE</u> : Charges for piping for all discharge pipes, sewerage and drainage pipes including connection to Main Sewer pipe from the Fixtures.	item	1.00			
10.5.0	<u>ROOF LEVEL</u>					
10.5.1	<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></p> <p align="center"><u>ELECTRICAL INSTALLATIONS</u></p>					
11.1.0	<p><u>General</u></p> <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 the Utility Regulation Authority 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> <p>(f) Rate for all electrical panels shall include for supply and installation of all necessary MCCBs, MCBS, EFRs, ELCBs, auxiliary contacts, Voltmeters, ammeters, Digital analyser,kWh meters, indicator lamps, selector switches, copper bus bars, inter locks, aligning and grounding of the panel, inter connectors, internal wiring connections to switch gear,steel channels and necessary hardware fixing insulating materials,all in fully enclosed metal clad panels and distribution boards completed as shown in drawing. They shall comply with the specifications and I.E.E.regulations and be complete to working order to the approval of local authorities.</p> <p>(g) Rate shall include for supply, installation, maintaining, testing and commissioning of the system for power and lighting according to drawings and specifications to working order.</p> <p>(h) All materials, equipment wiring shall confirm to local codes, specifications, standards/latest I.E.E. regulations (BS 7671).</p>					
11.2.0	<u>GROUND FLOOR</u>					
11.2.1	<u>ELECTRIC BOARDS</u>					
a)	Supply and Installation of Utility Regulatory Authority approved Main Panel Board with kWh Meter	item	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(DB)	nos	2.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
11.2.3	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Down Light (18W) - Weather Proof	nos	5.00			
2)	Ceiling Light (12W)	nos	3.00			
3)	Recessed Ceiling Light (12W)	nos	3.00			
4)	Weather Proof Wall Light IP55 (12W)	nos	6.00			
5)	Ceiling Mounted Exhaust Fan	nos	3.00			
6)	Light Switch (1 Gang)	nos	5.00			
7)	Light Switch (2 Gang)	nos	6.00			
8)	Light Switch (4 Gang)	nos	2.00			
9)	Light Switch (5 Gang)	nos	10.00			
10)	13A Power Socket	nos	2.00			
11)	13A Twin Socket	nos	15.00			
12)	15A Switched Socket at High Level	nos	1.00			
13)	Emergency Light	nos	2.00			
14)	Wall Mounted Speaker	nos	8.00			
11.2.4	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	43.00			
2)	2.5mm ² Wiring to Power Points	points	18.00			
3)	16mm ² Cabling to DBs	points	2.00			
4)	Cabling - Connection of Speaker to public address system	points	8.00			
11.3.0	<u>FIRST FLOOR</u>					
11.3.1	<u>ELECTRIC BOARDS</u>					
a)	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	nos	2.00			
11.3.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Light (12W)	nos	6.00			
2)	Weather Proof Wall Light IP55 (12W)	nos	5.00			
3)	2 x 50W PLL Tube Light	nos	30.00			
4)	42 inch To 48 inch Ceiling Fan	nos	21.00			
5)	Light Switch (1 Gang)	nos	1.00			
6)	Light Switch (2 Gang)	nos	2.00			
7)	Light Switch (3 Gang)	nos	1.00			
8)	Light Switch (5 Gang)	nos	1.00			
9)	13A Power Socket	nos	4.00			
10)	13A Twin Socket	nos	15.00			
11)	Computer Network Outlet	nos	1.00			
12)	Emergency Light	nos	4.00			
13)	Public Address System	nos	1.00			
14)	Wall Mounted Speaker	nos	3.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
11.3.2	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	67.00			
2)	2.5mm ² Wiring to Power Points	points	19.00			
3)	16mm ² Cabling to DBs	points	2.00			
4)	Cabling - Data Network points (CAT6) Connection from Existing Internet Main connection.	points	1.00			
5)	Cabling - Connection of Speaker to public address system	points	3.00			
11.4.0	<u>SECOND FLOOR</u>					
11.4.1	<u>ELECTRIC BOARDS</u>					
a)	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	nos	4.00			
11.4.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Down Light (18W) - Weather Proof	nos	6.00			
2)	Ceiling Light (12W)	nos	3.00			
3)	Recessed Ceiling Light (12W)	nos	7.00			
4)	3 Ft Led Tube Light	nos	27.00			
5)	42 inch To 48 inch Ceiling Fan	nos	18.00			
6)	Wall Mounted Exhaust Fan	nos	4.00			
7)	Light Switch (1 Gang)	nos	4.00			
8)	Light Switch (2 Gang)	nos	6.00			
9)	Light Switch (4 Gang)	nos	1.00			
10)	Light Switch (5 Gang)	nos	9.00			
13)	13A Power Socket	nos	8.00			
14)	13A Twin Socket	nos	24.00			
15)	15A Switched Socket at High Level	nos	6.00			
16)	Computer Network Twin Outlet	nos	3.00			
17)	Emergency Light	nos	5.00			
18)	HDMI	nos	12.00			
19)	Wall Mounted Speaker	nos	3.00			
11.4.3	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	85.00			
2)	2.5mm ² Wiring to Power Points	points	38.00			
3)	16mm ² Cabling to DBs	points	4.00			
4)	Cabling - Data Network points (CAT6) Connection from Existing Internet Main connection.	points	6.00			
5)	Cabling - HDMI	points	12.00			
6)	Cabling - Connection of Speaker to public address system	points	3.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
11.5.0	<u>THIRD FLOOR</u>					
11.5.1	<u>ELECTRIC BOARDS</u>					
a)	Supply and Installation of Utility Regulatory Authority approved brand Distribution board	nos	4.00			
11.5.2	<u>ELECTRIC FIXTURES</u>					
1)	Ceiling Down Light (18W) - Weather Proof	nos	6.00			
2)	Ceiling Light (12W)	nos	3.00			
3)	Recessed Ceiling Light (12W)	nos	7.00			
4)	3 Ft Led Tube Light	nos	27.00			
5)	HPS Wall Mounted Light (IP65) (100W)	nos	2.00			
6)	42 inch To 48 inch Ceiling Fan	nos	18.00			
7)	Wall Mounted Exhaust Fan	nos	4.00			
8)	Light Switch (1 Gang)	nos	4.00			
9)	Light Switch (2 Gang)	nos	6.00			
10)	Light Switch (4 Gang)	nos	1.00			
11)	Light Switch (5 Gang)	nos	9.00			
12)	13A Power Socket	nos	8.00			
13)	13A Twin Socket	nos	24.00			
14)	15A Switched Socket at High Level	nos	6.00			
15)	Computer Network Twin Outlet	nos	3.00			
16)	Emergency Light	nos	5.00			
17)	HDMI	nos	12.00			
18)	Wall Mounted Speaker	nos	3.00			
11.5.3	<u>ELECTRICAL WIRING</u>					
1)	2.5mm ² Wiring to Light Points	points	87.00			
2)	2.5mm ² Wiring to Power Points	points	38.00			
3)	16mm ² Cabling to DBs	points	4.00			
4)	Cabling - Data Network points (CAT6) Connection from Existing Internet Main connection.	points	6.00			
5)	Cabling - HDMI	points	12.00			
6)	Cabling - Connection of Speaker to public address system	points	3.00			
BILL No: 11 - ELECTRICAL INSTALLATIONS						
TOTAL OF BILL No: 11 - Carried over to summary						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL No: 12</u> <u>FIRE FIGHTING SYSTEM</u>					
12.1.0	<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. e)Heat Resistant cable shall be laid for connecting the detectors.					
12.2.0	<u>FIRE ALARM SYSTEM</u> Heat Resistant cable shall be laid for connecting the detectors.					
12.3.0	<u>GROUND FLOOR</u>					
12.3.1	<u>FIRE ALARM / DETECTION SYSTEM</u>					
1)	Manual Call Point	no	5.00			
2)	Beacon	no	1.00			
3)	Sounder Bell	no	1.00			
4)	Exit Sign	no	4.00			
5)	Fire Alarm Control Panel	no	1.00			
12.3.2	<u>FIRE FIGHTING SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	5.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	5.00			
12.4.0	<u>FIRST FLOOR</u>					
12.4.1	<u>FIRE ALARM SYSTEM</u>					
1)	Manual Call Point	no	4.00			
2)	Smoke Detector	no	2.00			
3)	Beacon	no	1.00			
4)	Exit Sign	no	4.00			
12.4.2	<u>FIRE FIGHTING SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	3.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	3.00			
12.5.0	<u>SECOND FLOOR</u>					
12.5.1	<u>FIRE ALARM SYSTEM</u>					
1)	Manual Call Point	no	1.00			
2)	Smoke Detector	no	5.00			
3)	Beacon	no	1.00			
4)	Exit Sign	no	7.00			
12.5.2	<u>FIRE FIGHTING SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	1.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	1.00			
12.6.0	<u>THIRD FLOOR</u>					
12.6.1	<u>FIRE ALARM SYSTEM</u>					
1)	Manual Call Point	no	1.00			
2)	Smoke Detector	no	5.00			
3)	Beacon	no	1.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
4)	Exit Sign	no	7.00			
12.6.2	<u>FIRE FIGHTING SYSTEM</u>					
1)	CO2 Extinguisher (load 2kg) In Polycarbonate Enclosure	no	1.00			
2)	H2O Extinguisher (load 9L) In Polycarbonate Enclosure	no	1.00			
BILL No: 12 - FIRE FIGHTING SYSTEM						
TOTAL OF BILL No: 12 - Carried over to summary						

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>BILL NO : 13</u> <u>STAGE WORKS</u>					
13.1.0	<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.					
13.2.0	<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					
13.2.1	<u>Excavation</u>					
1)	Wall Footing (WF)	m ³	9.75			
13.2.2	<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)	Wall Footing (WF)	m ²	9.10			
13.2.3	<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	13.00			
13.0.0	<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					
13.1.1	<u>LEAN CONCRETE</u> <u>50mm thick lean concrete below Foundation</u> Foundation Footings & Tie beams	m ²	13.00			
13.2.0	<u>REINFORCED CONCRETE</u>					
13.2.1	<u>FOUNDATIONS</u>					
1)	Wall Footing (WF)	m ³	3.90			
2)	RC capping beam	m ³	0.50			
	<u>RC Walls Below Ground level</u>					
3)	100thick RC wall	m ³	0.99			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
13.3.0	<p align="center"><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 timber</p> <p>c) Plywood used for forms shall be of commercial standard, moisture resistane concrete form plywoodnot lessthan 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>					
13.3.1	<u>FOUNDATIONS</u>					
1)	Wall Footing (WF)	m ²	15.60			
2)	RC capping beam	m ²	6.60			
	<u>RC Walls</u>					
3)	100thick RC wall	m ²	19.89			
13.4.0	<p align="center"><u>REINFORCEMENT WORK</u></p> <p>(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.</p> <p>(b) Stirrups shall be hot rolled mildsteel round bars complying with BS 1119, Characteristic strength not less than 250N/mm2</p> <p>(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.</p> <p align="center"><u>BELOW GROUND</u></p>					
13.4.1	<u>FOUNDATIONS</u>					
1)	Wall Footing (WF)					
	12mm dia deformed bars - 6m	kg	185.12			
	6mm dia deformed bars - 6m	kg	61.57			
2)	RC capping beam					
	10mm dia deformed bars - 6m	kg	54.56			
	6mm dia deformed bars - 6m	kg	23.44			
	<u>RC Walls</u>					
3)	100thick RC wall					
	10mm dia deformed bars - 6m	kg	61.38			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
<u>MASONRY AND PLASTERING</u>						
13.5.0	<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)					
13.5.1	<u>MASONRY WORK (STAGE)</u>					
1)	Interior walls					
a)	150mm thick Solid block single wall	m ²	8.04			
13.5.2	<u>PLASTERING</u>					
	(a) 25mm thick Cement plastering on both surface of the walls and concrete surfaces as specified incl. wire mesh shall be fixed at the joints of concrete surfaces and walls before plastering. Quantity is measured including concrete surfaces. thick (13+12mm) 2 coats in 1:4 cement and river sand mix ratio c) Rates shall include for approved brand water proofing compound shall be mixed with cement mortar for external wall plastering as per manufacturers specifications.					
13.5.3	<u>PLASTERING WORK (STAGE)</u>					
1)	Internal Plastering					
	Both surface of the wall	m ²	16.08			
<u>SCREEDING & TILING</u>						
13.6.0	<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.					
13.6.1	<u>50mm thick Floor Screeding</u>					
1)	<u>SCREEDING STAGE AREA</u> Stage area	m ²	50.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
<u>DOORS AND WINDOWS</u>						
13.7.0	<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. 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.					
13.7.1	<u>STAGE DOOR</u>					
1)	Internal D6	no	3.00			
<u>WOOD WORK</u>						
13.8.0	<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.					
13.8.1	<u>STAGE WOOD WORK</u>					
1)	25mm marine grade plywood flooring with carpet on top	m ²	50.00			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	<u>PAINTING</u>					
13.9.0	<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.					
13.9.1	<u>STAGE WALLS</u>					
1)	Painting on both surface of the wall	m ²	16.08			
	<u>METAL WORK</u>					
13.10.0	<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.					
13.10.1	<u>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	117.00			
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			
	BILL No: 13 - STAGE WORKS					
	TOTAL OF BILL No: 13 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
14.1.0	<u>BILL No: 14</u> <u>ADDITIONS</u> <u>General</u> <u>Provision to include quantities as per the drawing which is missed in the bill of quantities.</u>					
BILL No: 14 - ADDITIONS TOTAL OF BILL No: 14 - Carried over to summary						

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