

BILL OF QUANTITIES
MULTIPURPOSE HALL at AA. HIMANDHOO SCHOOL

CLIENT : MINISTRY OF EDUCATION, GOVERNMENT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES
MULTIPURPOSE HALL at AA. HIMANDHOO SCHOOL

DESCRIPTION	AMOUNT	%
Bill No: 01 - PRELIMINARIES		
Bill No: 02 - EXCAVATION AND FILLING		
Bill No: 03 - INSITU CONCRETE WORKS		
Bill No: 04 - MASONRY		
Bill No: 05 - STRUCTURAL METAL WORKS		
Bill No: 06 - CARPENTRY		
Bill No: 07 - ROOFING		
Bill No: 08 - WINDOWS, SCREENS & LIGHTS		
Bill No: 09 - DOORS, SHUTTERS & HATCHES		
Bill No: 10 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS		
Bill No: 11 - SUSPENDED CEILING		
Bill No: 12 - PAINTING & DECORATIONS		
Bill No: 13 - STAIRS, WALKWAYS AND BALUSTRADES		
Bill No: 14 - MECHANICAL & ELECTRICAL SERVICES		
Bill No: 15 - INSULATION, FIRE STOPPING & FIRE PROTECTION		
Bill No: 16- ADDITIONS AND OMMISIONS		
TOTAL AMOUNT		

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.0.00	Bill No: 01 - PRELIMINARIES					
1.1.00	GENERAL NOTES Abbreviations m - metre nr - numbers m3 - cubic metres m2 - m - linear metre t - tons inc. - including mm - millimetre SS - stainless steel GI - galvanized iron					
1.2.00	SITE MANAGEMENT COSTS Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.	item	1.00			
1.3.00	SIGN BOARD Allow for sign board.	nr	1.00			
1.4.00	CLEAN-UP Allow for clean-up upon completion of works.	item	1.00			
1.5.00	INSURANCE, BONDS, GUARANTEES AND WARRANTIES Insurance as stated in the general conditions.	item	1.00			
1.6.00	TOTAL OF BILL No: 01 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
2.0.00	Bill No: 02 - EXCAVATION AND FILLING					
2.1.00	<u>GENERAL</u>					
	(a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, and disposing surplus soil.					
2.2.00	<u>SITE CLEARING</u>					
2.2.01	Clear the area of site from rubbish and vegetable matters, stumps, roots. Rates shall include for removal of trees and tree stumps and disposal of such materials	m ²	759.40			
2.3.00	<u>EXCAVATION</u>					
	Excavation quantities are measured to the faces of concrete members. Rates shall include for all the additional excavation required to place the formwork. Rates shall include for backfilling.					
2.3.01	Excavation for Foundation pads	m ³	99.33			
2.3.02	Excavation for Foundation beams	m ³	66.15			
2.4.00	<u>FILLING</u>					
	Rate shall include for: levelling, grading, trimming, compacting and similar					
2.4.01	Compacted earth filling under ground slab	m ²	759.40			
2.4.02	150mm thick coarse aggregate layer under foundation	m ²	759.40			
2.5.00	<u>DAMP-PROOF MEMBRANE</u>					
	Rate shall include for: dressing around and sealing to all penetrations,laps and turnups.					
2.5.01	Polythene damp proof membrane (500 gauge)	m ²	759.40			
2.6.00	<u>DE-WATERING</u>					
2.6.01	De-watering the excavation until completion of concrete work as required	item	1.00			
2.7.00	TOTAL OF BILL No: 02 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.0.00	Bill No: 03 - INSITU CONCRETE WORKS					
3.1.00	<u>GENERAL</u>					
	(a) Rates shall include for: placing in position, making good after removal of formwork, mortar touch up to all concrete 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.					
	(c) All structural concrete shall be GRADE M30 and lean concrete shall be GRADE M15					
	(d) Rates shall include for: concrete, formwork, reinforcement, cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wires and chair supports, laps, distribution bars and wastage.					
	(e) Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, strads. ties. hangers. oides and removal of formwork.					
	(f) Rates shall include for: cleaning, fabrication, placing the provision for all necessary temporary fixings and supports including tie wires and chair supports. laos. distribution bars and wastage.					
	(g) All reinforcing bars shall be high strength bars.					
	(h) Slab soffits to be finished fairfaced, use plasteciser and formwork with reducing agent.					
	(i) All exposed & external concrete members shall be casted with masterpel 777 or equivalent water proofing chemical.					
	(j) Rate shall include for applying 2 coats of waterproofing chemical to substructure.(Below ground level)					
3.1.01	Allow for Concrete Testing.	item	1.00			
3.2.00	<u>MASS CONCRETE</u>					
	Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.					
3.2.01	50 mm Lean Concrete (Foundations)	m ³	6.62			
3.3.00	<u>REINFORCED INSITU CONCRETE</u>					
	<u>SUB-STRUCTURE</u>					
	FOUNDATION PADS					
3.3.01	800 x 800 x 300mm Foundation pads, F1	m ³	6.53			
3.3.02	1200 x 1200 x 300mm Foundation pads, F2	m ³	6.92			
3.3.03	1400 x 1400 x 300mm Foundation pads, F3	m ³	8.24			
3.3.04	1900 x 1900 x 300mm Foundation pads, F4	m ³	2.17			
	FOUNDATION BEAMS					
3.3.05	400 x 250 mm Foundation beam, TB	m ³	23.82			
	STAIR STARTER					
3.3.06	200 x 1275 mm Concrete stair starter	m ³	0.27			
	COLUMNS					
3.3.07	250 x 250 mm Concrete columns C1	m ³	1.39			
3.3.08	250 x 450 mm Concrete columns C2	m ³	1.69			
3.3.09	250 x 350 mm Concrete columns C3	m ³	0.21			
3.4.00	<u>GROUND FLOOR</u>					
	COLUMNS					
3.4.01	250 x 250 mm Concrete columns C1	m ³	7.06			
3.4.02	250 x 450 mm Concrete columns C2	m ³	8.58			
3.4.03	250 x 350 mm Concrete columns C3	m ³	1.07			
	SLABS					
3.4.04	100 mm thk Concrete Slab on ground floor including ramp area	m ³	75.94			
3.4.05	150 mm thk Concrete Slab on half landing level	m ³	0.69			
	STAIRCASE					
3.4.06	Concrete staircase GF to 1st FL	m ³	3.77			
3.5.00	<u>FIRST FLOOR</u>					
	BEAMS					
3.5.01	450 x 200 mm Beam B1	m ³	4.48			
3.5.02	450 x 200 mm Beam B1A		0.49			
3.5.03	400 x 200 mm Beam B2	m ³	17.98			
3.5.04	450 x 250 mm Beam B3		0.98			
3.5.05	400 x 200 mm Beam B4	m ³	1.43			
	COLUMNS					
3.5.06	250 x 250 mm Concrete columns C1	m ³	0.44			
3.5.07	250 x 450 mm Concrete columns C2	m ³	9.45			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.5.08	250 x 350 mm Concrete columns C3	m ³	1.23			
	SLABS					
3.5.09	140 mm thk Concrete Slab on first floor	m ³	30.99			
3.5.10	170 mm thk Concrete Slab on first floor (Cat walk area)	m ³	11.17			
3.5.11	150 mm thk Concrete Slab on half landing level	m ³	0.69			
	RC WALLS					
3.5.12	100 mm thk RC walls on catwalk/corridor	m ³	15.03			
3.6.00	ROOF LEVEL - 01					
	BEAMS					
3.6.01	300 x 200 mm Beam RB1	m ³	1.68			
3.6.02	400 x 200 mm Beam RB2	m ³	0.37			
3.6.03	400 x 150 mm Beam RB3	m ³	1.07			
	SLABS					
3.6.04	130 mm thk Concrete Slab on Roof level-01	m ³	7.23			
3.7.00	ROOF LEVEL - 02					
	BEAMS					
3.7.01	300 x 200 mm Beam RB1	m ³	5.09			
3.8.00	OTHER WORKS					
	Lintel and Sill beams					
3.8.01	150 x 150 mm Beam LT1	item	1.00			
3.8.02	300 x 150 mm Beam LT2	item	1.00			
	FIN					
3.8.03	100 X 150 mm thk Concrete fins (GF)	item	1.00			
	RC bench					
3.8.04	75 mm thk Concrete Slab for vanity at toilet	item	1.00			
	GROUND WELL					
3.8.05	1000mm Dia Water well as per detailed drawing	item	1.00			
3.9.00	TOTAL OF BILL №: 03 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
4.0.00	Bill No: 04 - MASONRY					
4.1.00	GENERAL (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, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashing, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.					
4.3.00	BLOCK WORK Cement block wall, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar. (EXTERNAL WALLS)					
4.2.01	150 mm thk full height GROUND FLOOR	m ²	370.47			
4.2.02	FIRST FLOOR	m ²	250.46			
4.2.03	150 mm thk 1000mm height FIRST FLOOR	m ²	94.05			
4.2.04	100 mm thk full planter wall GROUND FLOOR	m ²	15.58			
4.2.05	Cement block wall, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar (INTERNAL WALLS). 150 mm thk full height GROUND FLOOR	m ²	199.15			
4.2.06	FIRST FLOOR	m ²	68.13			
4.2.07	150 mm thk 1000mm height FIRST FLOOR	m ²	53.15			
4.2.08	150 mm thk 725mm height STAGE	m ²	47.17			
4.2.09	100 mm thk 2400mm height (toilets) GROUND FLOOR	m ²	20.63			
4.2.10	100 mm thk full planter wall GROUND FLOOR	m ²	15.58			
4.4.00	TOTAL OF BILL No: 04 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
5.0.00	BILL №: 05 - STRUCTURAL METAL WORKS					
5.1.00	GENERAL					
	<p>(a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts incl. steel brackets, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws.</p> <p>(b) Rates shall include for fabrication and erection and temporary supports and fixing into position.</p> <p>(c) "Welding" is deemed to be in accordance with the specification and for the material to which it is to be used. Gusset plates, shoe plates, ends, caps, cleats, brackets, stiffeners, bolts, etc., are required to be included to the rate of the associated steel work in which they occur.</p> <p>(d) For the description of materials refer to the Drawings and technical specification</p> <p>(e) Contractor shall submit shop drawings for approval prior to fabrication.</p> <p>(f) Unless specified otherwise, rate shall include for: All shop fabrication work, marking, delivery, unloading, hoisting, erecting and fixing as per detail drawings, All welds & allowance for rolling margin, the weight of weld metal in welded constructions, members of any length, cutting to size and shape and joints in the running length, grinding to a smooth finish, unless otherwise required, Machine drilled bolt, holes, bolts, nuts and washers, cleats, shoe and gusset plates and all other connections, Wire brushing to clean all the steel surfaces (except stainless steel) after fabrication and spray painting with two coats of quick drying metal primer zinc phosphate & two coats of matt anti corrosive paint with final paint, all necessary accessories and preparation and submission of Shop Drawings and As Built Drawings as specified.</p>					
5.2.00	STEEL TRUSS					
	TRUSS TR1					
5.2.01	Steel truss 18.05m span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	4.00			
	TRUSS TR2					
5.2.02	Steel truss 12.72m span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	4.00			
	TRUSS TR3					
5.2.03	Steel truss 8.9m span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	2.00			
	TRUSS TR4					
5.2.04	Steel truss 6.62m span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	8.00			
	TRUSS TR5					
5.2.05	Steel truss 3.2m span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	8.00			
	TRUSS TR6					
5.2.06	Steel truss 6.61 span with 60.4mm dia x 4mm thick GI pipe top and bottom chord and 48.3mm dia. x 3.6mm thick GI pipe web members	no	1.00			
	ROOF FRAMING					
5.2.07	50 x 100 x 2.5mm 'C' Purlins at 900 c/c	m	531.22			
	STAGE FRAMING					
5.2.08	75 x 150 x 2.5mm thk RHS @ 400 c/c	m	232.29			
5.3.00	TOTAL OF BILL №: 05 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
6.0.00	Bill №: 06 - CARPENTRY					
6.1.000	<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 and screws.					
6.2.00	<u>LOWER ROOF FRAMING</u>					
6.2.01	35 x 50 mm timber battens	m ³	0.28			
6.2.02	50 x 150 mm timber rafters	m ³	1.16			
6.2.03	25 x 200 mm timber fascia board	m ³	0.11			
6.3.00	<u>STAGE</u>					
6.3.01	Staircase to stage (150x50mm Hardwood stringers bolted to RC slab and capping beam as per detailed drawing	item	2.00			
6.3.02	18mm thk plywood nailed to the 50x150mm timber frame (Storage area) as per detailed drawing	m ²	36.57			
6.3.03	25x100mm Hardwood flooring as per detailed drawing	m ²	112.07			
6.4.00	TOTAL OF BILL №: 06 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
7.0.00	Bill №: 07 - ROOFING					
7.1.00	<u>GENERAL</u> (a) Rates shall include for: fair edges, dressing over angel fillets, roof sealant, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps.					
7.2.00	<u>MAIN ROOF & LOWER ROOF COVERING</u>					
7.2.01	Lysaght roofing sheet to specification	m²	577.64			
7.2.02	50mm mineral wool insulation with reflective layers on both installed as per suppliers specifications with recommended lap length and air gap tape. Rate shall include for BRC mesh over purlins to support insulation laver.	m²	577.64			
7.3.00	<u>CAPPING</u>					
7.3.01	Lysaght ridge cap as per roofing sheet suppliers assembly	m	34.90			
7.4.00	<u>GUTTER</u>					
7.4.01	200 x 200 mm Zinc gutter	m	60.70			
7.5.00	<u>DOWN PIPE</u>					
7.5.01	82 mm dia rain water pipe	item	1.00			
7.6.00	<u>FASCIA</u>					
7.6.01	6 mm thk x 250mm MS Plate welded to truss end	m	90.75			
7.7.00	TOTAL OF BILL №: 07 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
8.0.00	Bill №: 08 - WINDOWS, SCREENS & LIGHTS					
8.1.00	<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, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings. (c) Sizes are given overall outside dimensions of actual doors and windows. (d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule (e) Rates shall include for all painting as specified (f) Rates shall include all items specified in the door schedule and specification. (g) Frames and sashes to be 25-60 micron black powder coated aluminium other wise specified.					
8.2.00	<u>WINDOWS</u>					
	<u>GROUND FLOOR</u>					
8.2.01	1200 x 750 W2 - Aluminium window with aluminium frame, aluminium louvers and Reflective glass panel	nr	3.00			
8.2.02	1850 x 750 W3 - Aluminium window with aluminium frame, aluminium louvers and Reflective glass panel	nr	1.00			
8.2.03	1200 x 750 V1 - Aluminium window with aluminium frame and aluminium louvers	nr	3.00			
	<u>FIRST FLOOR</u>					
8.2.04	1850 x 2100 W1 - Aluminium window with aluminium frame, aluminium louvers and Reflective glass panel	nr	10.00			
8.2.05	1200 x 750 W2 - Aluminium window with aluminium frame, aluminium louvers and Reflective glass panel	nr	5.00			
8.2.06	1800 x 750 W4 - Aluminium window with aluminium frame, aluminium louvers and Clear glass panel	nr	1.00			
8.2.07	1200 x 750 V1 - Aluminium window with aluminium frame and aluminium louvers	nr	1.00			
	<u>ROOF LEVEL</u>					
8.2.08	1850 x 550 V2 - Aluminium window with aluminium frame and aluminium louvers	nr	15.00			
8.3.00	TOTAL OF BILL №: 08 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.0.00	Bill No: 09 - DOORS, SHUTTERS & HATCHES					
9.1.00	<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, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings. (c) Sizes are given overall outside dimensions of actual doors and windows. (d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule. (e) Rates shall include for all painting as specified (f) Rates shall include all items specified in the door schedule and specification. (g) Frames and sashes to be 25-60 micron black powder coated aluminium other wise specified.					
9.2.00	<u>DOORS</u>					
	<u>GROUND FLOOR</u>					
9.2.01	2350 x 2500 D1 - Aluminium panel door on Aluminium frame with reflective glass (Double swing)	nr	1.00			
9.2.02	1800 x 2500 D2 - Aluminium panel door on Aluminium frame (Double swing)	nr	6.00			
9.2.03	1000 x 2300 D3 - Aluminium panel door on Aluminium frame (Single swing)	nr	3.00			
9.2.04	1000 x 2300 D4 - Aluminium panel door on Aluminium frame and aluminium louvers (Single swing)	nr	1.00			
9.2.05	700 x 2100 D5 - PVC panel door on PVC frame (single swing)	nr	4.00			
9.2.06	900 x 2300 D6 - Aluminium panel door on Aluminium frame (Single swing)	nr	3.00			
9.2.07	1000 x 2300 D7 - Aluminium panel door on Aluminium frame and aluminium louvers (Single swing)	nr	3.00			
9.2.08	2566 x 725 D8 - Aluminium panel door on Aluminium frame and aluminium louvers (Single swing)	nr	3.00			
	<u>FIRST FLOOR</u>					
9.2.09	1800 x 2500 D2 - Aluminium panel door on Aluminium frame (Double swing)	nr	2.00			
9.2.10	1000 x 2300 D3 - Aluminium panel door on Aluminium frame (Single swing)	nr	2.00			
9.3.00	TOTAL OF BILL No: 09 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
10.0.00	Bill №: 10 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
10.1.00	<u>GENERAL</u>					
	(a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing.					
	(b) "Masterseal 588" or equivalent should be applied on top of screeds and walls upto 600mm in all toilets and corridor.					
10.2.00	<u>PLASTERING</u>					
	20 mm thk cement plaster on external surface as specified on the drawing. Waterproofed with Sika product or equivalent.					
10.2.01	GROUND FLOOR	m ²	401.63			
10.2.02	FIRST FLOOR	m ²	438.56			
	16 mm thk cement plaster on internal surface as specified on the drawing					
10.2.03	GROUND FLOOR	m ²	942.33			
10.2.04	FIRST FLOOR	m ²	493.02			
10.3.00	<u>FLOOR SCREED</u>					
	25 mm thk cement screed with masterpel 777.					
10.3.01	GROUND FLOOR	m ²	270.59			
10.3.02	FIRST FLOOR	m ²	169.99			
	35 mm thk cement screed with 2.5mm self levelling cement screed					
10.3.03	GROUND FLOOR	m ²	425.79			
10.3.04	FIRST FLOOR	m ²	61.77			
	50 mm thk cement screed					
10.3.05	GROUND FLOOR	m ²	38.16			
10.3.06	FIRST FLOOR	m ²	41.64			
	25 mm thk cement screed with self levelling screed and bituminous waterproofing agent					
10.3.07	FIRST FLOOR	m ²	169.53			
10.4.00	<u>FLOOR TILING</u>					
	600 x 600 mm Homogenous Non-slip tiles					
10.4.01	GROUND FLOOR	m ²	308.75			
10.4.02	FIRST FLOOR	m ²	211.63			
	300 x 300 mm Homogenous Non-slip tiles					
10.4.03	GROUND FLOOR	m ²	#REF!			
10.5.00	<u>WALL TILING</u>					
	600 x 300 mm Homogenous tiles					
10.5.01	GROUND FLOOR	m ²	61.78			
10.6.00	<u>FLOOR PAINTING</u>					
	Epoxy floor paint					
10.6.01	GROUND FLOOR	m ²	425.79			
10.6.02	FIRST FLOOR	m ²	61.77			
	Elastometric paint (badminton court)					
10.6.03	GROUND FLOOR	item	1.00			
10.7.00	<u>CARPET FLOORING</u>					
	GROUND FLOOR (STAGE)					
10.7.00	Carpet flooring on stage area	m ²	112.07			
10.8.00	TOTAL OF BILL №: 10 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
11.0.00	Bill No: 11 - SUSPENDED CEILING					
11.1.00	GENERAL (a) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails and screws.					
11.2.00	PLASTERBOARD CEILING					
11.2.01	Suspended acoustic ceiling system with aluminium framing FIRST FLOOR	m ²	426.02			
11.2.02	6mm Cement board ceiling GROUND FLOOR	m ²	289.25			
11.2.03	FIRST FLOOR	m ²	44.29			
11.3.00	TOTAL OF BILL No: 11 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
12.0.00	Bill No: 12 - PAINTING & DECORATIONS					
12.1.00	<u>GENERAL</u>					
	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, wall putty application, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door & window furniture.					
	(b) All painting work shall be carried in accordance with the Specifications.					
12.2.00	<u>WALL PAINTING</u>					
	Weatherbound paint finish as specified (EXTERNAL SURFACES)					
12.2.01	GROUND FLOOR	m ²	401.63			
12.2.02	FIRST FLOOR	m ²	438.56			
	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES)					
12.2.03	GROUND FLOOR	m ²	836.55			
12.2.04	FIRST FLOOR	m ²	493.02			
12.3.00	<u>CEILING PAINTING</u>					
	Emulsion paint finish including putty application on slab soffit					
12.3.01	GROUND FLOOR	m ²	289.25			
12.3.02	FIRST FLOOR	m ²	44.29			
12.4.00	TOTAL OF BILL No: 12 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
13.0.00	Bill No: 13 - STAIRS, WALKWAYS AND BALUSTRADES					
13.1.00	<u>GENERAL</u>					
	(a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts incl. those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws.					
	(b) Rates shall include for fabrication and erection and temporary supports and fixing into position.					
13.2.00	<u>RAMP RAILING</u>					
13.2.01	50mm dia SS hollow pipe handrail at 900mm height as per drawing Ramp railing (Entrance area)	m	13.54			
13.2.02	25mm dia GI powder coated handrail at 200mm height as per drawing Ramp railing(Stage area)	m	13.60			
13.3.00	<u>STAIRCASE RAILING</u>					
13.3.01	25 & 50mm dia GI powder coated railings as per detaled drawing GROUND to FIRST FLOOR	m	6.72			
13.4.00	TOTAL OF BILL No: 13 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.0.00	Bill No: 14 - MECHANICAL & ELECTRICAL SERVICES					
14.1.00	GENERAL <p>(a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO/FENAKA.</p> <p>(b) The following items and description and the drawings are given as a guidance as to the nature of the information required to be returned by the contractor. Should they not be appropriate the contractor should provide a similar BOQ using the Additions/Omissions sheets provided at the back of this BOQ.</p> <p>(c) The cost shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.</p> <p>(d) Rate shall include for necessary chasings, trenching, conduits, cables, cable trays, fittings and clips, cutting holes and chases in brick work/ block work/ concrete work complete with all necessary accessories such as sockets, connections, cable glands and boxes, hardware clips, soldering and jointing materials etc., for proper installing and laying of cables.</p> <p>(e) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces.</p> <p>(f) A light fixture is measured as one point; switch end of wire is not included in the quantity.</p> <p>(g) A point wiring for power points is measured (regardless of 1 gang, 2 gang etc) as one point for each socket outlet; other end of wire is not included in the quantity.</p> <p>(h) All under ground cables directly buried in ground/run in trenches to be properly laid and covered with cable tiles/trench covers. Rate for under ground cables shall include for all necessary excavation, sand layers, concrete tiles, warning strips and back filling with approved quality earth properly compacted, hot dipped galvanized brackets for trenches, accessories etc as applicable</p> <p>(i) The contractors are requested to refer Conditions of Contract, Special Conditions of Contract, Drawings and Specification and other relevant documents related to this tender prior to pricing of the following items</p> <p>(j) The contractor shall provide a schedule of all builder's work in connection with details of such items as necessary, along with the tender.</p> <p>(k) Rates for materials/ plants/ equipments not approved for duty free facilities to be quoted on duty paid basis.</p> <p>(l) All equipments shall be guaranteed for a period of 12 months from the date of commissioning or date of practical completion of the project which ever later</p> <p>(m) The rate shall include for insurance during handling, rehandling, transport, storage until ready for installation, delivery of equipments up to the point of installation and until handing over.</p> <p>(n) The rates shall include for comprehensive maintenance during defects liability period of 12 months from the date of handing over</p> <p>(o) The tenderer shall submit the following information on the items/equipments quoted for together with the tender.</p> <ol style="list-style-type: none"> make model No. technical data country of manufacture delivery period lead time for manufacturing. port of shipping CIF value of each item in foreign currency. Optional items and their additional cost. (additional cost to be submitted separately) Schedule of items to be carried out by others connected to installation of generators/transformers/Electrical panels such as some builders work and electrical connection. Details of all special features schedule attached to specification. <p>(p) 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>(q) 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>(r) All materials, equipment wiring shall confirm to local codes, specifications, standards/latest I.E.E. regulations (BS 7671).</p>					
14.2.00	MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM <p>Distribution Boards (DB)</p>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.2.01	Distribution Panel for each floor as shown on the drawing, complete with all incoming and outgoing MCBs, RCCBs, etc any other item required to working order, wall mounted wall mount steel powder coated, IP44 encloser with neutral link, earth bar and required accessories, all complete as per the specifications & drawings.	nr	3.00			
14.2.02	Distribution Boards Internet switch board	nr nr	1.00			
	<u>MAIN / SUB CABLING</u> All under ground cables directly buried in ground/ in the trenches as applicable, to be laid properly and covered with cable tiles, protection tapes, etc for mechanical protection, PVC sleeves may use if required. Rate shall include for all necessary works/accessories such as excavation, sand layers, cable tiles, warning strips and back filling with approved quality earth,properly compacted, to the satisfaction of the Engineer. All above ground cables shall be laid on cable tray/ trcnking /conduits as applicable and covered by tray covers, etc. for mechanical protection. PVC sleeves may use if required. Rate shall include for all necessary works/ accessories such as galvernized brackets, supporting materials, fittings, nails, cable ties, earthing, etc, trays shall be of required sizes, GI powder coated, and shotted, to the satisfaction of Engineer					
13.2.04	<u>CABLING UP TO MDB (If the existing panel board cant cater proposed</u> Feeder cable	item	1.00			
13.2.05	Cabling from Main Panel Board to DBs	item	1.00			
13.2.06	Cabling from main internet source to internet switch board	item	1.00			
13.2.07	Supply and installation of panel board with KWh meter	item	1.00			
13.2.08	Wiring and connection to main panel board from main electrical network	item	1.00			
14.3.00	<u>GENERAL EARTHING</u>					
14.3.01	Allow for the total earthing system inclusive of the necessary cables from all the DBs	item	1.00			
14.4.00	<u>POINT WIRING AND FITTINGS</u> Rate shall include for supply & installation of cable, conduits for point wiring in concealed installations including lights,switches, power outlet,data points,isolators, etc, all as specified in the drawing					
14.4.01	Supply and Installation of 2 x 1C 1.5mm2 PVC/PVC/Cu + 2.5mm2 PVC/Cu earth cable c/w uPVC conduit, junction boxes etc. for lights and switches point wiring	nr	241.00			
14.4.02	Supply and Installation of 2 x 1C 2.5mm2 PVC/PVC/Cu + 2.5mm2 PVC/Cu earth cable c/w uPVC conduit, junction boxes,ethernet cables, RJ45 Connectors, VGA cables etc. for the Socket outlets point wiring	nr	48.00			
14.5.00	<u>LIGHTS,SWITCHES AND SOCKETS</u> Rate shall include supply and installation of following lighting fixtures, socket outlets as specified and detailed, fixed in position including all fixing accessories, supports and connect to power, under following conditions 1. All bathrooms, out door light fixtures shall be IP65 2. All switches & sockets shall be ABB or equivalent brand.					
	<u>LIGHTS AND SWITCHES</u>					
13.5.01	Ceiling down light (18W) LED	nr	20.00			
13.5.02	Mirror light (7W) LED	nr	2.00			
13.5.03	Outdoor wall light 40W (IP65)	nr	34.00			
13.5.04	4x55W PLL Lamps (Wire guard,Polycarbonate diffuser,Emergency and dimming versions)	nr	40.00			
13.5.05	Ceiling fan (52" - 54")	nr	42.00			
13.5.06	Ceiling fan switches	nr	42.00			
13.5.07	Light switch (1 G)	nr	6.00			
13.5.08	Light switch (2 G)	nr	13.00			
13.5.09	Light switch (3 G)	nr	13.00			
13.5.10	Light switch (4 G)	nr	6.00			
13.5.11	Emergency Lights	nr	7.00			
13.5.12	Exit lights	nr	16.00			
	<u>SOCKETS</u>					
13.5.13	13 A twin sockets	nr	34.00			
13.5.14	Computer network outlet	nr	1.00			
13.5.15	Public address system	nr	1.00			
13.5.16	Telephone Outlet	nr	1.00			
13.5.17	Wall speakers	nr	9.00			
13.5.18	Volume controller	nr	1.00			
13.6.00	TOTAL OF BILL №: 13 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.0.00	Bill No: 14 - PLUMBING					
14.1.00	GENERAL (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fitting, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC. (c) Rates shall include for supply and fixing of all pipes. (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples.					
14.2.00	WATER SUPPLY Provide and fix UPVC high pressure pipes including piping, connections, fittings, valves, excavations, ducting, fixing with brackets and leak testing.					
	<u>INTERNAL PLUMBING - FRESH WATER SUPPLY PIPE</u>					
14.2.01	Note: Internal plumbing to all toilets including supply and laying of pipes.	item	1.00			
	<u>EXTERNAL PLUMBING</u>					
14.2.02	Waste water and sewage connection from all the toilets including the necessary catch pits and manholes as necessary. Rates shall include for supply and laying of pipes including clean-outs as necessary.	item	1.00			
14.2.03	Water connection to all toilets. Rate shall include for supply and laying of pipes.	item	1.00			
14.3.00	DISCHARGE WORK					
14.3.01	Provide and fix UPVC pipes including vent pipes, vent cowls, cleaning eye, connections, fittings, valves, excavations, ducting, fixing with brackets, connecting to main sewer line and leak testing.	item	1.00			
14.4.00	FIXTURES Complete installation, cleaning and testing of:					
14.4.01	Wash basin	nr	2.00			
14.4.02	Wash basin tap	nr	2.00			
14.4.03	Muslim shower with stop valve	nr	4.00			
14.4.04	Soap holder	nr	4.00			
14.4.05	Floor Drain	nr	5.00			
14.4.06	Floor Gully	nr	5.00			
14.4.07	Water Closet	nr	4.00			
14.4.08	510 x 1110 Face Mirror	nr	2.00			
14.4.09	750 x 600 Counter top with tile finish	nr	2.00			
14.4.10	Water booster pump	nr	1.00			
	<u>DISABLED TOILET</u>					
14.4.11	Wash basin	nr	1.00			
14.4.12	Wash basin tap	nr	1.00			
14.4.13	Muslim shower with stop valve	nr	1.00			
14.4.14	Soap holder	nr	1.00			
14.4.15	Floor Gully	nr	1.00			
14.4.16	510 x 1110 Face Mirror	nr	1.00			
14.4.17	Water Closet	nr	1.00			
14.4.18	SS Railings as per detailed drawings	set	1.00			
14.5.00	TOTAL OF BILL No: 14 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
15.0.00	Bill №: 15 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
15.1.00	GENERAL					
	(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 cable conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces					
	(c) Rates shall include for all necessary electrical wiring and accessories required for completion					
	(d) All items shall be supply and complete installation					
15.2.00	FIRE ALARM SYSTEM					
15.2.01	Supply and installation of Fire alarm control panel	nr	1.00			
15.2.02	Supply and installation of smoke detector	nr	8.00			
15.2.03	Supply and installation of Manual call point	nr	6.00			
15.2.04	Supply and installation of sounder/bell	nr	4.00			
15.2.05	Supply and installation of beacons	nr	4.00			
15.3.00	FIRE EXTINGUISHERS (Confirming to BS EN 3-10)					
15.3.01	Supply and installation of 2Kg CO2 Extinguishers	nr	6.00			
15.3.02	Supply and installation of 9 Lt. water Extinguishers.	nr	6.00			
15.4.00	TOTAL OF BILL №: 15 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
16.0.00	Bill No: 16- ADDITIONS AND OMISSIONS					
16.1.00	<u>ADDITIONS</u>					
16.1.01	Bill No: 01 - PRELIMINARIES					
16.1.02	Bill No: 02 - EXCAVATION AND FILLING					
16.1.03	Bill No: 03 - INSITU CONCRETE WORKS					
16.1.04	Bill No: 04 - MASONRY					
16.1.05	Bill No: 05 - STRUCTURAL METAL WORKS					
16.1.06	Bill No: 06 - CARPENTRY					
16.1.07	Bill No: 07 - ROOFING					
16.1.08	Bill No: 08 - WINDOWS, SCREENS & LIGHTS					
16.1.09	Bill No: 09 - DOORS, SHUTTERS & HATCHES					
16.1.10	Bill No: 10 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
16.1.11	Bill No: 11 - SUSPENDED CEILING					
16.1.12	Bill No: 12 - PAINTING & DECORATIONS					
16.1.13	Bill No: 13 - STAIRS, WALKWAYS AND BALUSTRADES					
16.1.14	Bill No: 14 - MECHANICAL & ELECTRICAL SERVICES					
16.1.15	Bill No: 15 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
	TOTAL					
16.2.00	<u>OMISSIONS</u>					
16.2.01	Bill No: 01 - PRELIMINARIES					
16.2.02	Bill No: 02 - EXCAVATION AND FILLING					
16.2.03	Bill No: 03 - INSITU CONCRETE WORKS					
16.2.04	Bill No: 04 - MASONRY					
16.2.05	Bill No: 05 - STRUCTURAL METAL WORKS					
16.2.06	Bill No: 06 - CARPENTRY					
16.2.07	Bill No: 07 - ROOFING					
16.2.08	Bill No: 08 - WINDOWS, SCREENS & LIGHTS					
16.2.09	Bill No: 09 - DOORS, SHUTTERS & HATCHES					
16.2.10	Bill No: 10 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
16.2.11	Bill No: 11 - SUSPENDED CEILING					
16.2.12	Bill No: 12 - PAINTING & DECORATIONS					
16.2.13	Bill No: 13 - STAIRS, WALKWAYS AND BALUSTRADES					
16.2.14	Bill No: 14 - MECHANICAL & ELECTRICAL SERVICES					
16.2.15	Bill No: 15 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
	TOTAL					
16.3.00	TOTAL OF BILL No: 16 - Carried Over To Summary					