

BILL OF QUANTITIES
CLASSROOM BLOCK at AA. THODDOO SCHOOL

CLIENT : MINISTRY OF EDUCATION, GOVERNMENT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES
CLASSROOM BLOCK at AA. THODDOO 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 - ROOFING		
Bill No: 07 - WINDOWS, SCREENS & LIGHTS		
Bill No: 08 - DOORS, SHUTTERS & HATCHES		
Bill No: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS		
Bill No: 10 - SUSPENDED CEILING		
Bill No: 11 - PAINTING & DECORATIONS		
Bill No: 12 - STAIRS, WALKWAYS AND BALUSTRADES		
Bill No: 13 - MECHANICAL & ELECTRICAL SERVICES		
Bill No: 14 - PLUMBING		
Bill No: 15- ADDITIONS AND OMMISIONS		
TOTAL AMOUNT		

CLASSROOM BLOCK at AA. THODDOO SCHOOL
Male', Republic of Maldives

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.0.00	Bill No: 01 - PRELIMINARIES					
1.1.00	<u>GENERAL NOTES</u> Abbreviations m - metre nr - numbers m3 - cubic metres m2 - square metres m - linear metre t - tons inc. - including mm - millimetre SS - stainless steel GI - galvanized iron					
1.2.00	<u>SITE MANAGEMENT COSTS</u> 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	<u>SIGN BOARD</u> Allow for sign board.	nr	1.00			
1.4.00	<u>CLEAN-UP</u> Allow for clean-up upon completion of works.	item	1.00			
1.5.00	<u>INSURANCE, BONDS, GUARANTEES AND WARRANTIES</u> Insurance as stated in the general conditions.	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.6.00	TOTAL OF BILL №: 01 - Carried Over To Summary					
2.0.00	BILL №: 02 - EXCAVATION AND FILLING					
2.1.00	GENERAL (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	SITE CLEARING					
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	m ²	388.26			
2.3.00	EXCAVATION 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	105.89			
2.3.02	Excavation for Foundation beams	m ³	48.06			
2.4.00	FILLING Rate shall include for: levelling, grading, trimming, compacting and similar					
2.4.01	Compacted earth filling under ground slab	m ²	388.26			
2.4.02	150mm thick coarse aggregate layer under foundation	m ²	388.26			
2.5.00	DAMP-PROOF MEMBRANE Rate shall include for: dressing around and sealing to all penetrations.					
2.5.01	Bituminous waterproofing membrane	m ²	388.26			
2.6.00	DE-WATERING					
2.6.01	De-watering the excavation until completion of concrete work as required	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
2.7.00	TOTAL OF BILL No: 02 - Carried Over To Summary					
3.0.00	Bill No: 03 - INSITU CONCRETE WORKS					
3.1.00	GENERAL					
	(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 C30 and lean concrete shall be GRADE C15 (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, straps, ties, hangers, pipes 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, laps, 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) Waterproofing shall be added to all areas specified.					
3.1.01	Allow for Concrete Testing.	item	1.00			
3.2.00	MASS CONCRETE					
	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	6.16			
3.3.00	REINFORCED INSITU CONCRETE					
	SUB-STRUCTURE					
	FOUNDATION PADS					
3.3.01	2300 x 2300 x 400mm Foundation pads, F1	m ³	6.35			
3.3.02	2100 x 2100 x 400mm Foundation pads, F2	m ³	3.53			
3.3.03	1800 x 1800 x 350mm Foundation pads, F3	m ³	2.27			
3.3.04	1700 x 1700 x 350mm Foundation pads, F4	m ³	10.12			
3.3.05	1200 x 1200 x 350mm Foundation pads, F5	m ³	5.04			
3.3.06	800 x 800 x 350mm Foundation pads, F6	m ³	3.59			
	FOUNDATION BEAMS					
3.3.07	450 x 200 mm Foundation beam, FB1	m ³	17.30			
	STAIR STARTER					
3.3.08	200 x 1275 mm Concrete stair starter	m ³	0.54			
3.4.00	GROUND FLOOR					
	COLUMNS					
3.4.01	200 x 450 mm Concrete columns C1	m ³	0.86			
3.4.02	200 x 400 mm Concrete columns C2	m ³	1.01			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.4.03	200 x 300 mm Concrete columns C3	m ³	4.54			
3.4.04	200 x 200 mm Concrete columns C4	m ³	1.52			
3.4.05	150 x 150 mm Concrete columns SC	m ³	0.57			
	SLABS					
3.4.06	150 mm thk Concrete Slab on ground	m ³	61.37			
3.4.07	150 mm thk Concrete Slab on ramp	m ³	0.85			
	STAIRCASE					
3.4.08	Concrete staircase GF to FFL -400	m ³	0.35			
3.4.09	Concrete staircase GF to 1st FL	m ³	3.77			
	HALF LANDING BEAMS					
3.4.10	550 x 200 mm Beam B1	m ³	0.74			
3.4.11	450 x 200 mm Beam B2	m ³	0.17			
3.4.12	450 x 200 mm Beam B3	m ³	0.17			
3.5.00	<u>FIRST FLOOR</u>					
	COLUMNS					
3.5.01	200 x 450 mm Concrete columns C1	m ³	0.69			
3.5.02	200 x 400 mm Concrete columns C2	m ³	0.82			
3.5.03	200 x 300 mm Concrete columns C3	m ³	3.68			
3.5.04	200 x 200 mm Concrete columns C4	m ³	1.23			
3.5.05	150 x 150 mm Concrete columns SC	m ³	0.46			
	SLABS					
3.5.06	175 mm thk Concrete Slab on first floor	m ³	64.92			
3.5.07	150 mm thk Concrete Slab on half landing level	m ³	1.95			
	BEAMS					
3.5.08	550 x 200 mm Beam B1	m ³	3.76			
3.5.09	450 x 200 mm Beam B2	m ³	4.42			
3.5.10	450 x 200 mm Beam B3	m ³	1.92			
	HALF LANDING BEAMS					
3.5.11	550 x 200 mm Beam B1	m ³	0.74			
3.5.12	450 x 200 mm Beam B2	m ³	0.17			
3.5.13	450 x 200 mm Beam B3	m ³	0.17			
	STAIRCASE					
3.5.14	Concrete staircase 1st to 2nd FL	m ³	1.82			
3.6.00	<u>SECOND FLOOR</u>					
	COLUMNS					
3.6.01	200 x 450 mm Concrete columns C1	m ³	0.69			
3.6.02	200 x 400 mm Concrete columns C2	m ³	0.82			
3.6.03	200 x 300 mm Concrete columns C3	m ³	3.68			
3.6.04	200 x 200 mm Concrete columns C4	m ³	1.23			
3.6.05	150 x 150 mm Concrete columns SC	m ³	0.46			
	SLABS					
3.6.06	175 mm thk Concrete Slab on second floor	m ³	64.92			
3.6.07	150 mm thk Concrete Slab on half landing level	m ³	1.95			
	BEAMS					
3.6.08	550 x 200 mm Beam B1	m ³	3.76			
3.6.09	450 x 200 mm Beam B2	m ³	4.42			
3.6.10	450 x 200 mm Beam B3	m ³	1.92			
3.8.00	<u>ROOF LEVEL</u>					
	BEAMS					
3.8.01	300 x 200 mm Beam RB1	m ³	10.82			
3.9.00	<u>OTHER WORKS</u>					
	Lintel and Sill beams					
3.9.01	150 x 150 mm Beam LB1	item	1.00			
3.9.02	300 x 150 mm Beam LB2	item	1.00			
	SHADING					
3.9.03	150 mm thk Concrete shading @ 1st slab level	m ³	2.37			
3.9.04	150 mm thk Concrete shading @ 2nd slab level	m ³	2.36			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.9.05	150 mm thk Concrete shading @ roof beam level	m ³	2.36			
3.10.00	TOTAL OF BILL №: 03 - Carried Over To Summary					
4.0.00	BILL №: 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 leavingholes 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.					
4.2.00	BLOCK WORK Cement block wall, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar. (EXTERNAL WALLS) 150 mm thk full height					
4.2.01	GROUND FLOOR	m ²	257.59			
4.2.02	FIRST FLOOR	m ²	187.69			
4.2.03	SECOND FLOOR	m ²	199.39			
	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					
4.2.04	GROUND FLOOR	m ²	150.17			
4.2.05	FIRST FLOOR	m ²	100.79			
4.2.06	SECOND FLOOR	m ²	100.79			
	Cement block wall, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar (INTERNAL WALLS). 100 mm thk full height					
4.2.07	GROUND FLOOR	m ²	16.14			
4.2.08	FIRST FLOOR	m ²	31.78			
4.2.09	SECOND FLOOR	m ²	31.78			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
4.3.00	TOTAL OF BILL №: 04 - Carried Over To Summary					
5.0.00	BILL №: 05 - STRUCTURAL METAL WORKS					
5.1.00	<p><u>GENERAL</u></p> <p>(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.</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 and workmanship refer to the Specification of works, pricing Preambles and Drawings.</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>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
5.2.00	STEEL TRUSS					
	TRUSS TR1					
5.2.01	Steel truss 11.525m span with 60.3mm dia x 3.2mm thick CHS pipe top and bottom chord and 42.4mm dia. x 2.0mm thick CHS pipe web members	no	12.00			
	STEEL FRAMING					
5.2.02	60.3mm dia x 3.2mm thick GI bracing beam	m	34.90			
5.2.03	50 x 100 x 2.5mm 'C' Purlins at 900 c/c	m	488.60			
5.3.00	TOTAL OF BILL №: 05 - Carried Over To Summary					
6.0.00	Bill №: 06 - ROOFING					
6.1.00	GENERAL					
	(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.					
6.2.00	MAIN ROOF COVERING					
6.2.01	Lysaght roofing sheet to specification	m ²	427.18			
6.2.02	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 layer.	m ²	427.18			
6.3.00	CAPPING					
6.3.01	Lysaght ridge cap as per roofing sheet suppliers assembly	m	34.90			
6.4.00	GUTTER					
6.4.01	200 x 200 mm Zinc Aluminium gutter to dimensions specified by service engineer	m	69.80			
6.5.00	DOWN PIPE					
6.5.01	82 mm dia rain water pipe	item	1.00			
6.6.00	FASCIA					
6.6.01	50 x 200 mm fascia board	m	69.80			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
6.7.00	TOTAL OF BILL №: 06 - Carried Over To Summary					
7.0.00	Bill №: 07 - WINDOWS, SCREENS & LIGHTS					
7.1.00	GENERAL <p>(a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.</p> <p>(b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings.</p> <p>(c) Sizes are given overall outside dimensions of actual doors and windows.</p> <p>(d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule</p> <p>(e) Rates shall include for all painting as specified</p> <p>(f) Rates shall include all items specified in the door schedule and specification.</p> <p>(g) Frames and sashes to be 25-60 micron black powder coated aluminium other wise specified.</p>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
7.2.00	<u>WINDOWS</u>					
	<u>GROUND FLOOR</u>					
7.2.01	1525 x 1300 W1 - Aluminium sliding window with clear glass panel on aluminium frame	nr	8.00			
7.2.02	2450 x 1500 W2 - Aluminium side/top hung window with reflective glass panel on aluminium frame	nr	8.00			
7.2.03	650 x 750 W3 - Aluminium window with aluminium louvers on aluminium frame	nr	6.00			
7.2.04	3000 x 600 V1 - Aluminium window with aluminium louvers on aluminium frame	nr	10.00			
7.2.05	2550 x 600 V2 - Aluminium window with aluminium louvers on aluminium frame	nr	1.00			
7.2.06	1875 x 600 V3 - Aluminium window with aluminium louvers on aluminium frame	nr	2.00			
	<u>FIRST FLOOR</u>					
7.2.07	1525 x 1300 W1 - Aluminium sliding window with clear glass panel on aluminium frame	nr	8.00			
7.2.08	2450 x 1500 W2 - Aluminium side/top hung window with reflective glass panel on aluminium frame	nr	8.00			
7.2.09	650 x 750 W3 - Aluminium window with aluminium louvers on aluminium frame	nr	4.00			
7.2.10	1200 x 1500 W4 - Aluminium side/top hung window with reflective glass panel on aluminium frame	nr	1.00			
7.2.11	3000 x 600 V1 - Aluminium window with aluminium louvers on aluminium frame	nr	10.00			
7.2.12	2550 x 600 V2 - Aluminium window with aluminium louvers on aluminium frame	nr	1.00			
7.2.13	1875 x 600 V3 - Aluminium window with aluminium louvers on aluminium frame	nr	2.00			
	<u>SECOND FLOOR</u>					
7.2.14	1525 x 1300 W1 - Aluminium sliding window with clear glass panel on aluminium frame	nr	8.00			
7.2.15	2450 x 1500 W2 - Aluminium side/top hung window with reflective glass panel on aluminium frame	nr	8.00			
7.2.16	650 x 750 W3 - Aluminium window with aluminium louvers on aluminium frame	nr	4.00			
7.2.17	1200 x 1500 W4 - Aluminium side/top hung window with reflective glass panel on aluminium frame	nr	1.00			
7.2.18	3000 x 600 V1 - Aluminium window with aluminium louvers on aluminium frame	nr	10.00			
7.2.19	2550 x 600 V2 - Aluminium window with aluminium louvers on aluminium frame	nr	1.00			
7.2.20	1875 x 600 V3 - Aluminium window with aluminium louvers on aluminium frame	nr	2.00			
7.3.00	TOTAL OF BILL №: 07 - Carried Over To Summary					
8.0.00	Bill №: 08 - DOORS, SHUTTERS & HATCHES					
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.					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
	(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. (g) All solid timber doors are teak timber or equivalent.					
8.2.00	<u>DOORS</u>					
	<u>GROUND FLOOR</u>					
8.2.01	1000 x 2300 D1 - Aluminium panel door on Aluminium frame (single swing)	nr	8.00			
8.2.02	1000 x 2300 D2 - Aluminium panel door on Aluminium frame (single swing)	nr	4.00			
8.2.03	700 x 2200 D3 - Aluminium panel door on Aluminium frame (single swing)	nr	2.00			
8.2.04	700 x 2000 D4 - PVC panel door on PVC frame (single swing)	nr	3.00			
	<u>FIRST FLOOR</u>					
8.2.05	1000 x 2300 D1 - Aluminium panel door on Aluminium frame (single swing)	nr	9.00			
8.2.06	1000 x 2300 D2 - Aluminium panel door on Aluminium frame (single swing)	nr	2.00			
8.2.07	700 x 2200 D3 - Aluminium panel door on Aluminium frame (single swing)	nr	2.00			
8.2.08	700 x 2000 D4 - PVC panel door on PVC frame (single swing)	nr	6.00			
	<u>SECOND FLOOR</u>					
8.2.09	1000 x 2300 D1 - Aluminium panel door on Aluminium frame (single swing)	nr	9.00			
8.2.10	1000 x 2300 D2 - Aluminium panel door on Aluminium frame (single swing)	nr	2.00			
8.2.11	700 x 2200 D3 - Aluminium panel door on Aluminium frame (single swing)	nr	2.00			
8.2.12	700 x 2000 D4 - PVC panel door on PVC frame (single swing)	nr	6.00			
8.3.00	TOTAL OF BILL №: 08 - Carried Over To Summary					
9.0.00	BILL №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.1.00	GENERAL (a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing.					
9.2.00	PLASTERING 16 mm thk cement plaster on external surface as specified on the drawing. Waterproofed with Sika product or equivalent.					
9.2.01	GROUND FLOOR	m ²	257.59			
9.2.02	FIRST FLOOR	m ²	187.69			
9.2.03	SECOND FLOOR	m ²	199.39			
	16 mm thk cement plaster on internal surface as specified on the drawing					
9.2.04	GROUND FLOOR	m ²	590.21			
9.2.05	FIRST FLOOR	m ²	452.83			
9.2.06	SECOND FLOOR	m ²	464.53			
9.3.00	CEMENT SCREED 50 mm thk cement screed waterproofed with SIKA product or equivalent					
9.3.01	GROUND FLOOR	m ²	414.71			
9.3.02	FIRST FLOOR	m ²	383.92			
9.3.03	SECOND FLOOR	m ²	383.92			
9.4.00	FLOOR TILING 600 x 600 mm Homogenous Non-slip tiles					
9.4.01	GROUND FLOOR	m ²	262.34			
9.4.02	FIRST FLOOR	m ²	256.51			
9.4.03	SECOND FLOOR	m ²	251.93			
	300 x 300 mm Homogenous Non-slip tiles					
9.4.04	GROUND FLOOR	m ²	26.89			
9.4.05	FIRST FLOOR	m ²	32.46			
9.4.06	SECOND FLOOR	m ²	32.46			
9.5.00	FLOOR PAINTING Epoxy floor paint					
9.5.01	GROUND FLOOR	m ²	88.53			
9.5.02	FIRST FLOOR	m ²	72.41			
9.5.03	SECOND FLOOR	m ²	72.41			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.6.00	TOTAL OF BILL №: 09 - Carried Over To Summary					
10.0.00	Bill №: 10 - SUSPENDED CEILING					
10.1.00	<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.					
10.2.00	<u>PLASTERBOARD CEILING</u>					
	Fixed "Boral" or equivalent plasterboard ceiling system with timber framing					
10.2.01	SECOND FLOOR	m ²	139.15			
	Cement board ceiling on roof eave / gable ceiling / toilet area					
10.2.02	GROUND FLOOR	m ²	28.11			
10.2.03	FIRST FLOOR	m ²	33.28			
10.2.04	SECOND FLOOR	m ²	259.77			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
10.3.00	TOTAL OF BILL №: 10 - Carried Over To Summary					
11.0.00	Bill №: 11 - PAINTING & DECORATIONS					
11.1.00	GENERAL (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.					
11.2.00	WALL PAINTING					
11.2.01	Weatherbound paint finish as specified (EXTERNAL SURFACES) GROUND FLOOR	m ²	305.41			
11.2.02	FIRST FLOOR	m ²	237.76			
11.2.03	SECOND FLOOR	m ²	226.59			
11.2.04	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES) GROUND FLOOR	m ²	651.86			
11.2.05	FIRST FLOOR	m ²	513.17			
11.2.06	SECOND FLOOR	m ²	545.49			
11.3.00	CEILING PAINTING					
11.3.01	Weatherbound paint finish as specified (SLAB SOFFIT) GROUND FLOOR	m ²	357.30			
11.3.02	FIRST FLOOR	m ²	352.32			
11.3.03	Emulsion paint finish including putty application on ceiling as specified (CEILING) GROUND FLOOR	m ²	28.11			
11.3.04	FIRST FLOOR	m ²	33.28			
11.3.05	SECOND FLOOR	m ²	259.77			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
11.4.00	TOTAL OF BILL №: 11 - Carried Over To Summary					
12.0.00	Bill №: 12 - STAIRS, WALKWAYS AND BALUSTRADES					
12.1.00	<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.					
12.2.00	<u>RAMP RAILING</u>					
12.2.01	25mm dia GI handrail at 900mm height as per drawing RAMP	m	9.80			
12.2.00	<u>STAIRCASE RAILING</u>					
12.2.01	50-25mm dia GI handrail at 900mm height as per drawing GROUND - 1ST FLOOR	m	6.40			
12.2.02	1ST - 2ND FLOOR	m	6.40			
12.3.00	<u>WALKWAY RAILING</u>					
12.3.01	50-25mm dia GI handrail at 900mm height as per drawing FIRST FLOOR	m	36.25			
12.3.02	SECOND FLOOR	m	36.25			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
12.4.00	TOTAL OF BILL №: 12 - Carried Over To Summary					
13.0.00	Bill №: 13 - MECHANICAL & ELECTRICAL SERVICES					
13.1.00	<p>GENERAL</p> <p>(a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO.</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>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
	<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>					
13.2.00	MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM					
13.2.01	<p><u>Distribution Boards (DB)</u></p> <p>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 enclosure with neutral link, earth bar and required accessories, all complete as per the specifications & drawings.</p> <p>PDB</p>	nr	12.00			
13.2.02	<p><u>MAIN / SUB CABLING</u></p> <p>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.</p> <p>All above ground cables shall be laid on cable tray/ trunking /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 galvanized 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</p> <p><u>CABLING UP TO MDB</u></p> <p>Cabling from main Electrical source to DB</p>	item	1.00			
13.3.00	GENERAL EARTHING					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
13.3.01	Allow for the total earthing system inclusive of the necessary cables from all the DBs	item	1.00			
13.4.00	<u>POINT WIRING AND FITTINGS</u>					
	Rate shall include for supply & installation of cable, conduits for point wiring in concealed installations including switches, power outlet, isolators, etc, all as specified					
13.4.01	Supply and Installation of 2 x 1C 1.5mm ² PVC/PVC/Cu + 2.5mm ² PVC/Cu earth cable c/w uPVC conduit, junction boxes etc. for light point wiring	nr	230.00			
13.4.02	Supply and Installation of 2 x 1C 2.5mm ² PVC/PVC/Cu + 2.5mm ² PVC/Cu earth cable c/w uPVC conduit, junction boxes etc. for following Socket outlet/isolator point wiring 13 A twin sockets	nr	81.00			
13.5.00	<u>FIXTURES</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. ICU/ETU/ HDU/ operation theater lights shall be clean room type light fixtures. 2. All bathrooms, out door light fixtures shall be IP65 3. All lamps/fittings shall be supplied by reputed manufacturer and relevant technical specification for each every fittings to be forwarded					
13.5.01	Outdoor wall light	nr	46.00			
13.5.02	Mirror light (7W LED light)	nr	11.00			
13.5.03	Recessed Down light 12W	nr	28.00			
13.5.04	Ceiling light 18W CFL	nr	6.00			
13.5.05	2 x 4' tube light with weather proof opal casing	nr	3.00			
13.5.06	2 x 4' fluorescent light with opal casing	nr	100.00			
13.5.07	Ceiling fan (52" - 54")	nr	36.00			
13.5.08	Light switch (1 G)	nr	27.00			
13.5.09	Light switch (2 G)	nr	29.00			
13.5.10	Light switch (3 G)	nr	6.00			
13.5.11	Light switch (4 G)	nr	30.00			
13.5.12	Light switch (5 G)	nr	5.00			
13.6.00	TOTAL OF BILL №: 13 - Carried Over To Summary					
14.0.00	Bill №: 14 - PLUMBING					
14.1.00	<u>GENERAL</u>					
	(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	<u>WATER SUPPLY</u>					
	Provide and fix UPVC high pressure pipes including piping, connections, fittings, valves, excavations, ducting, fixing with brackets and leak testing.					
14.2.01	<u>INTERNAL PLUMBING - FRESH WATER SUPPLY PIPE</u> Note: Internal plumbing to all toilets and kitchen including supply and laying of pipes.	item	1.00			
14.2.02	<u>EXTERNAL PLUMBING</u> Connection to main sewer line.	item	1.00			
14.2.03	Connection to MWSC water meters.	item	1.00			
14.2.04	All pipe works under ground/floor screed/slab to be laid for Waste water, sewage, fresh water and well water connection.	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.2.05	Waste water and sewage connection from all the toilets and kitchen 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			
14.2.06	MWSC water connection to all toilets, kitchen and laundry. 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 existing sewer line and leak testing.	item	1.00			
14.3.02	Connection to the existing sewer pipe	item	1.00			
14.4.00	FIXTURES					
	Complete installation, cleaning and testing of:					
14.4.01	Wash basin	nr	11.00			
14.4.02	Wash basin tap	nr	11.00			
14.4.03	Muslim shower with stop valve	nr	15.00			
14.4.04	Soap holder	nr	15.00			
14.4.05	Floor Drain	nr	6.00			
14.4.06	Floor Gully	nr	11.00			
14.4.07	1700 x 1000 Face Mirror	nr	5.00			
14.4.08	1000 x 1000 Face Mirror	nr	1.00			
14.4.09	Water Closet	nr	15.00			
14.4.01	1875 x 600 Counter top with tile finish	nr	5.00			
14.4.01	1000 x 600 Counter top with tile finish	nr	1.00			
	DISABLED TOILET					
14.4.10	Wash basin	nr	1.00			
14.4.11	Wash basin tap	nr	1.00			
14.4.12	Muslim shower with stop valve	nr	1.00			
14.4.13	Soap holder	nr	1.00			
14.4.14	Floor Gully	nr	1.00			
14.4.15	500 x 1100 Face Mirror	nr	1.00			
14.4.16	Water Closet	nr	1.00			
14.4.17	Railings	set	1.00			
14.5.00	TOTAL OF BILL №: 14 - Carried Over To Summary					
15.0.00	BILL №: 15- ADDITIONS AND OMMISIONS					
15.1.00	ADDITIONS					
15.1.01	Bill №: 01 - PRELIMINARIES					
15.1.02	Bill №: 02 - EXCAVATION AND FILLING					
15.1.03	Bill №: 03 - INSITU CONCRETE WORKS					
15.1.04	Bill №: 04 - MASONRY					
15.1.05	Bill №: 05 - STRUCTURAL METAL WORKS					
15.1.06	Bill №: 06 - ROOFING					
15.1.07	Bill №: 07 - WINDOWS, SCREENS & LIGHTS					
15.1.08	Bill №: 08 - DOORS, SHUTTERS & HATCHES					
15.1.09	Bill №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
15.1.10	Bill №: 10 - SUSPENDED CEILING					
15.1.11	Bill №: 11 - PAINTING & DECORATIONS					
15.1.12	Bill №: 12 - STAIRS, WALKWAYS AND BALUSTRADES					
15.1.13	Bill №: 13 - MECHANICAL & ELECTRICAL SERVICES					
15.1.14	Bill №: 14 - PLUMBING					
	TOTAL					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
15.2.00	OMISSIONS					
15.2.01	Bill №: 01 - PRELIMINARIES					
15.2.02	Bill №: 02 - EXCAVATION AND FILLING					
15.2.03	Bill №: 03 - INSITU CONCRETE WORKS					
15.2.04	Bill №: 04 - MASONRY					
15.2.05	Bill №: 05 - STRUCTURAL METAL WORKS					
15.2.06	Bill №: 06 - ROOFING					
15.2.07	Bill №: 07 - WINDOWS, SCREENS & LIGHTS					
15.2.08	Bill №: 08 - DOORS, SHUTTERS & HATCHES					
15.2.09	Bill №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
15.2.10	Bill №: 10 - SUSPENDED CEILING					
15.2.11	Bill №: 11 - PAINTING & DECORATIONS					
15.2.12	Bill №: 12 - STAIRS, WALKWAYS AND BALUSTRADES					
15.2.13	Bill №: 13 - MECHANICAL & ELECTRICAL SERVICES					
15.2.14	Bill №: 14 - PLUMBING					
	TOTAL					
15.3.00	TOTAL OF BILL №: 15 - Carried Over To Summary					