

BILL OF QUANTITIES

3 Storey building 08 Classroom, AV room, principle room, Safe room, leading teacher room,printing and server room at Adh.Dhigurah

CLIENT : MINISTRY OF EDUCATION, GOVERNEMNT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES

***3 Storey building 08 Classroom, AV room, principle room, Safe room,
leading teacher room,printing and server room at Adh.Dhigurah***

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 - INSULATION, FIRE STOPPING & FIRE PROTECTION		
Bill No: 16 - ADDITIONS AND OMMISIONS		
SUB TOTAL		
GST 8%		
GRAND TOTAL		

PREAMBLE NOTES

1.1 Discrepancies

All participants in the Tender exercise are deemed to have read the Specifications and BOQ carefully in conjunction with all the Contract Drawings. Any discrepancies between these documents are to be brought to the attention of the Employer and clarified prior to the closing of the Tender. Should any said discrepancies be discovered at a later date, the decision of the Employer is final and any extra cost due to the contractor as a result of such discrepancies will NOT be entertained whatsoever. The Contractor shall, at all times, exercise with care and professional scrutiny to ensure that there are no discrepancies and/or divergence between Contract Drawings and specifications prior to execution of any portion of the Works on site. The Contractor shall immediately give the Employer a written notice specifying any such discrepancies or divergence should he discovered such issues and the Employer shall issue instructions in regard thereto. The Contractor should exercise due diligence in this matter as a failure and/or negligence in complying with the above stated requirements may result in extra costs. Any extra costs incurred in respect therefore shall be borne solely by the Contractor.

1.2 General Notes

1. The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, General Conditions of Contract, Appendix to bid, Technical Specification and Tender Drawings.
2. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, transportation, installation/erection, profit, together with all general risks, liabilities and obligations set out or implied in the Contract.
3. The Tenderer is deemed to have visited the site/s and fully acquainted himself as to the location of each of the items and works to be carried out and to all conditions which may affect the performance of the works, including but not limited to:
 - Access to each of the roads where solid waste transfer process will be carried out, and Access for the dump site.
 - Restrictions applicable to working in proposed area.
 - All safety regulations and employer site safety procedures.
4. A rate or price shall be entered against each item in the Bill of Quantities, whether quantities are stated or not. All quantities given herein shall be deemed to be estimated quantities of the work to be done. Tenderer shall check and verify the quantities before submitting the tender.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided but required for completion of contract works, the cost shall be deemed to be distributed among the rates and prices entered for the related item of work.
6. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. The Bidder shall refer to relevant sections of the Contract Document to fully understand the item requirements before entering rates or prices against each item in the Bill of Quantities. No variation is allowed for the given scope of work.
- 7.. Measurement standard applied for calculation of quantities are according to NRM-2, RICS.

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BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.0.00	Bill №: 01 - PRELIMINARIES					
1.1.00	<u>GENERAL NOTES</u> 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	<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			
1.6.00	<u>SHOP DRAWINGS & AS BUILT DRAWINGS</u> Allow for Shop Drawings during the progress of the project and As-Built Drawings after the completion of the project as stated in the general conditions.	item	1.00			
1.7.00	<u>SAFETY ON SITE</u> Safety on site:- Providing and maintaining adequate safety measures on site for all workers and all authorized visitors on site and protecting adjoining properties and people against falling objects or other with regard to the construction works	item	1.00			
1.6.00	TOTAL OF BILL №: 01 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
2.0.00	Bill №: 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>DEMOLITION</u>					
2.2.01	Demolition of existing building.Rate shall include for demolition and disposal of demolished materials from the site.	item	1.00			
2.3.00	<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 items.	m ²	563.20			
2.4.00	<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.					
2.4.01	Excavation for Foundation pads	m ³	43.95			
2.4.02	Excavation for Foundation beams	m ³	80.45			
2.5.00	<u>FILLING</u>					
	Rate shall include for: levelling, grading, trimming, compacting and similar					
2.5.01	Compacted earth filling under ground slab	m ²	454.67			
2.6.00	<u>DAMP-PROOF MEMBRANE</u>					
	Rate shall include for: dressing around and sealing to all penetrations,laps and turnups.					
2.6.01	Polythene damp proof membrane (500 gauge)	m ²	454.67			
2.7.00	<u>DE-WATERING</u>					
2.7.01	De-watering the excavation until completion of concrete work as required	item	1.00			
2.8.00	TOTAL OF BILL №: 02 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.0.00	Bill №: 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 based on given Concrete Grade.					
	(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, 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) 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	6.30			
3.3.00	<u>REINFORCED INSITU CONCRETE</u>					
	<u>SUB-STRUCTURE</u>					
	FOUNDATION PADS					
3.3.01	2450 x 2450 x 450mm Foundation pads, F1	m ³	10.81			
3.3.02	2050 x 2050 x 400mm Foundation pads, F2	m ³	3.37			
3.3.03	1850 x 1850 x 350mm Foundation pads, F3	m ³	2.74			
3.3.04	1650 x 1650 x 350mm Foundation pads, F4	m ³	11.44			
3.3.05	1300 x 1300 x 350mm Foundation pads, F5	m ³	8.29			
3.3.06	1200 x 1200 x 350mm Foundation pads, F6	m ³	8.07			
	FOUNDATION BEAMS					
3.3.07	400 x 225 mm Foundation beam, TB	m ³	20.12			
3.3.08	300 x 500 mm Foundation beam, WF	m ³	1.23			
	STAIR STARTER					
3.3.09	200 x 1275 mm Concrete stair starter	m ³	0.27			
	COLUMNS					
3.3.10	400 x 220 mm Concrete columns C1	m ³	0.27			
3.3.11	375 x 220 mm Concrete columns C2	m ³	0.25			
3.3.12	300 x 200 mm Concrete columns C3	m ³	1.08			
3.3.13	200 x 200 mm Concrete columns C4	m ³	0.54			
	RC Wall					
3.3.14	100 mm thk Reinforced Concrete wall	m ³	5.13			
3.4.00	<u>GROUND FLOOR</u>					
	COLUMNS					
3.4.01	400 x 220 mm Concrete columns C1	m ³	1.13			
3.4.02	375 x 220 mm Concrete columns C2	m ³	1.06			
3.4.03	300 x 200 mm Concrete columns C3	m ³	4.61			
3.4.04	200 x 200 mm Concrete columns C4	m ³	2.31			
	SLABS					
3.4.05	100 mm thk Concrete Slab on ground floor	m ³	44.92			
3.4.06	155 mm thk Concrete Slab on half landing level	m ³	0.67			
	STAIRCASE					
3.4.07	Concrete staircase Ground Floor to First Floor	m ³	3.77			
3.5.00	<u>FIRST FLOOR</u>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
	BEAMS					
3.5.01	200 x 450 mm Beam B1	m ³	4.62			
3.5.02	200 x 450 mm Beam B2	m ³	5.86			
3.5.03	200 x 450 mm Beam B3	m ³	3.66			
	SLABS					
3.5.04	155 mm thk Concrete Slab on first floor	m ³	14.33			
3.5.05	175 mm thk Concrete Slab on first floor	m ³	63.63			
3.5.06	100 mm thk Concrete Slab on first floor	m ³	2.04			
	COLUMNS					
3.5.07	400 x 220 mm Concrete columns C1	m ³	1.13			
3.5.08	375 x 220 mm Concrete columns C2	m ³	1.06			
3.5.09	300 x 200 mm Concrete columns C3	m ³	4.61			
3.5.10	200 x 200 mm Concrete columns C4	m ⁴	2.31			
	RC Wall					
3.5.11	100 mm thk Reinforced Concrete wall	m ³	5.70			
	STAIRCASE					
3.5.12	Concrete staircase First Floor to Second Floor	m ³	3.77			
3.6.00	<u>SECOND FLOOR</u>					
	BEAMS					
3.6.01	200 x 450 mm Beam B1	m ³	4.62			
3.6.02	200 x 450 mm Beam B2	m ³	5.86			
3.6.03	200 x 450 mm Beam B3	m ³	3.66			
	SLABS					
3.6.04	155 mm thk Concrete Slab on first floor	m ³	14.33			
3.6.05	175 mm thk Concrete Slab on first floor	m ³	63.63			
3.6.06	100 mm thk Concrete Slab on first floor	m ³	2.04			
	COLUMNS					
3.6.07	400 x 220 mm Concrete columns C1	m ³	1.13			
3.6.08	375 x 220 mm Concrete columns C2	m ³	1.06			
3.6.09	300 x 200 mm Concrete columns C3	m ³	4.61			
3.6.10	200 x 200 mm Concrete columns C4	m ⁴	2.31			
	RC Wall					
3.6.11	100 mm thk Reinforced Concrete wall	m ³	4.56			
3.7.00	<u>ROOF LEVEL -01</u>					
	BEAMS					
3.7.01	200 x 300 mm Beam RB1	m ³	9.34			
	SLABS					
3.7.02	100 mm thk Concrete Slab on Roof beam level	m ³	2.04			
3.8.00	<u>ROOF LEVEL -02</u>					
	BEAMS					
3.8.01	200 x 300 mm Beam RB1	m ³	3.57			
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	150 x 200 mm Beam LT1	item	1.00			
3.9.03	150 x 250 mm Beam LT2	item	1.00			
3.9.04	150 x 400 mm Beam LT3	item	1.00			
	Sloping Roof beam					
3.9.05	150 x 300 mm Beam SRB	item	1.00			
	Concrete Counter tops					
3.9.06	75 mm thk Concrete counter tops (Toilets)	item	1.00			
3.9.07	75 mm thk Concrete counter tops (Science lab)	item	1.00			
3.9.08	75 mm thk Concrete counter tops (Prep room)	item	1.00			
3.9.09	75 mm thk Concrete counter tops (Chemical store)	item	1.00			
3.9.10	75 mm thk Concrete counter tops (Store room)	item	1.00			
3.10.00	TOTAL OF BILL №: 03 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
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) 100 mm thk full height					
4.2.01	GROUND FLOOR	m ²	143.00			
4.2.02	FIRST FLOOR	m ²	120.60			
4.2.03	SECOND FLOOR	m ²	135.00			
	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					
4.2.04	GROUND FLOOR	m ²	121.85			
4.2.05	FIRST FLOOR	m ²	132.75			
4.2.06	SECOND FLOOR	m ²	120.00			
	75 mm thk full height					
4.2.07	GROUND FLOOR	m ²	28.76			
4.2.08	FIRST FLOOR	m ²	33.49			
4.2.09	SECOND FLOOR	m ²	35.00			
4.3.00	TOTAL OF BILL №: 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	<u>GENERAL</u>					
	<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	<u>STEEL TRUSS</u>					
	TRUSS TR1					
5.2.01	Steel truss 12.625m span with 60.3mm dia x 3.2mm thick GI pipe top and bottom chord and 60.3mm dia. x 3.2mm thick GI pipe web members	item	12.00			
5.2.02	60.3mm dia x 3.2mm thk GI Bracing pipe	m	84.26			
5.2.02	60.3mm dia x 3.2mm thk GI Pipe on top of SRB	item	2.00			
5.2.03	50x100mm x2.5mm GI purlins @900mm c/c	m	756.00			
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 - ROOFING					
6.1.00	<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.					
6.2.00	<u>MAIN ROOF COVERING</u>					
6.2.01	Lysaght roofing sheet to specification	m²	567.00			
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.	m²	567.00			
6.3.00	<u>CAPPING</u>					
6.3.01	Lysaght ridge cap as per roofing sheet suppliers assembly	m	42.00			
6.4.00	<u>GUTTER</u>					
6.4.01	200 x 200 mm Lysaght Gutter	m	84.00			
6.5.00	<u>FASCIA</u>					
6.5.01	50x200mm Timber fascia board	m	84.00			
6.6.00	TOTAL OF BILL №: 06 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
7.0.00	Bill №: 07 - WINDOWS, SCREENS & LIGHTS					
7.1.00	<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 white powder coated aluminium other wise specified.					
7.2.00	<u>WINDOWS</u>					
	<u>GROUND FLOOR</u>					
7.2.01	950 x 2250 W2 - Aluminium window with aluminium frame and aluminium louvers	nr	2.00			
7.2.02	3000 x 1500 W6 - Aluminium window with aluminium frame and 6mm thick reflective glass panel	nr	9.00			
	<u>FIRST FLOOR</u>					
7.2.03	650 x 750 W1 - Aluminium window with aluminium frame and aluminium louvers	nr	2.00			
7.2.04	950 x 2250 W2 - Aluminium window with aluminium frame and aluminium louvers	nr	2.00			
7.2.05	3000 x 1500 W6 - Aluminium window with aluminium frame and 6mm thick reflective glass panel	nr	10.00			
	<u>SECOND FLOOR</u>					
7.2.06	650 x 750 W1 - Aluminium window with aluminium frame and aluminium louvers	nr	2.00			
7.2.07	950 x 2250 W2 - Aluminium window with aluminium frame and aluminium louvers	nr	2.00			
7.2.08	3000 x 1500 W6 - Aluminium window with aluminium frame and 6mm thick reflective glass panel	nr	10.00			
7.3.00	TOTAL OF BILL №: 07 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
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.					
	(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 white powder coated aluminium other wise specified.					
8.2.00	<u>DOORS</u>					
	<u>GROUND FLOOR</u>					
8.2.01	700 x 2300 D1 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	6.00			
8.2.02	900 x 2300 D2 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	6.00			
8.2.03	900 x 2300 D3 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	4.00			
8.2.04	1500 x 2100 D4 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	4.00			
8.2.05	2900 x 2700 D5 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	5.00			
8.2.06	2900 x 2700 D6 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	1.00			
	<u>FIRST FLOOR</u>					
8.2.07	700 x 2300 D1 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	4.00			
8.2.08	900 x 2300 D2 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	5.00			
8.2.09	1500 x 2100 D4 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	10.00			
	<u>SECOND FLOOR</u>					
8.2.10	700 x 2300 D1 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	4.00			
8.2.11	900 x 2300 D2 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	6.00			
8.2.12	900 x 2300 D3 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	1.00			
8.2.13	1500 x 2100 D4 - Aluminium door with aluminium frame and 6mm thick reflective glass panel	nr	8.00			
8.3.00	TOTAL OF BILL №: 08 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.0.00	Bill №: 09 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
9.1.00	<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 slab and walls upto 600mm in all toilets.					
9.2.00	<u>PLASTERING</u>					
	20 mm thk cement plaster on external surface as specified on the drawing.					
9.2.01	GROUND FLOOR	m ²	164.45			
9.2.02	FIRST FLOOR	m ²	138.69			
9.2.03	SECOND FLOOR	m ²	155.25			
	16 mm thk cement plaster on internal surface					
9.2.04	GROUND FLOOR	m ²	510.85			
9.2.05	FIRST FLOOR	m ²	521.03			
9.2.06	SECOND FLOOR	m ²	511.75			
9.3.00	<u>CEMENT SCREED</u>					
	35 mm thk cement screed					
9.3.01	GROUND FLOOR	m ²	96.03			
9.3.02	FIRST FLOOR	m ²	84.29			
9.3.03	SECOND FLOOR	m ²	84.29			
	50 mm thk cement screed					
9.3.04	GROUND FLOOR	m ²	363.58			
9.3.05	FIRST FLOOR	m ²	363.58			
9.3.06	SECOND FLOOR	m ²	363.58			
9.4.00	<u>FLOOR TILING</u>					
	600 x 600 mm Homogenous Non-slip tiles					
9.4.01	GROUND FLOOR	m ²	436.42			
9.4.02	FIRST FLOOR	m ²	425.65			
9.4.03	SECOND FLOOR	m ²	425.65			
	300 x 300 mm Homogenous Non-slip tiles					
9.4.04	GROUND FLOOR	m ²	23.19			
9.4.05	FIRST FLOOR	m ²	22.22			
9.4.06	SECOND FLOOR	m ²	22.22			
9.5.00	<u>WALL TILING</u>					
	600 x 300 mm Homogenous tiles					
9.5.01	GROUND FLOOR	m ²	46.23			
9.5.02	FIRST FLOOR	m ²	45.26			
9.5.03	SECOND FLOOR	m ²	45.26			
9.6.00	<u>SKIRTING</u>					
	120-150 mm high Homogenous tile skirting					
9.6.01	GROUND FLOOR	item	1.00			
9.6.02	FIRST FLOOR	item	1.00			
9.6.03	SECOND FLOOR	item	1.00			
9.7.00	<u>STEP TILING</u>					
	Steptiles					
9.7.01	GROUND FLOOR to FIRST FLOOR	item	1.00			
9.7.02	FIRST FLOOR TO SECOND FLOOR	item	1.00			
9.8.00	TOTAL OF BILL №: 09 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
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>					
10.2.01	6mm Cement board ceiling GROUND FLOOR	m ²	23.19			
10.2.02	FIRST FLOOR	m ²	22.22			
10.2.03	SECOND FLOOR	m ²	121.93			
10.2.04	Fixed "Boral" or equivalent plasterboard ceiling system with timber framing SECOND FLOOR	m ²	324.50			
10.3.00	TOTAL OF BILL №: 10 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
11.0.00	Bill №: 11 - PAINTING & DECORATIONS					
11.1.00	<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 replacine door & window furniture.					
	(b) All painting work shall be carried in accordance with the Specifications.					
11.2.00	<u>WALL PAINTING</u>					
	Weatherbound paint finish as specified (EXTERNAL SURFACES)					
11.2.01	GROUND FLOOR	m ²	164.45			
11.2.02	FIRST FLOOR	m ²	138.69			
11.2.03	SECOND FLOOR	m ²	155.25			
	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES)					
11.2.04	GROUND FLOOR	m ²	510.85			
11.2.05	FIRST FLOOR	m ²	521.03			
11.2.06	SECOND FLOOR	m ²	511.75			
11.3.00	<u>CEILING PAINTING</u>					
	Emulsion paint finish including putty application on slab soffit					
11.3.01	GROUND FLOOR	m ²	446.44			
11.3.02	FIRST FLOOR	m ²	446.44			
11.3.03	SECOND FLOOR	m ²	539.12			
11.4.00	TOTAL OF BILL №: 11 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
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> 50mm dia SS hollow pipe handrail at 900mm height as per drawing					
12.2.01	Ramp railing (Entrance area)	m	9.80			
12.3.00	<u>STAIRCASE RAILING</u> 50mm dia GI pipe hand railing with 25mm dia GI pipe as per drawing					
12.3.01	GROUND to FIRST FLOOR	m	13.44			
12.3.02	FIRST to SECOND FLOOR					
12.4.00	<u>WALKWAY RAILING</u> 25 and 50mm dia SS handrail at 1100mm height as per drawing					
12.4.01	FIRST FLOOR	m	44.70			
12.4.02	SECOND FLOOR	m	44.70			
12.5.00	TOTAL OF BILL №: 12 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
13.0.00	Bill №: 13 - MECHANICAL & ELECTRICAL SERVICES					
13.1.00	<u>GENERAL</u> <ul style="list-style-type: none"> (a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO/FENAKA. (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. (c) The cost shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental (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. (e) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces. (f) A light fixture is measured as one point; switch end of wire is not included in the quantity. (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. (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. (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 (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. (k) Rates for materials/ plants/ equipments not approved for duty free facilities to be quoted on duty paid basis. (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 (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. (n) The rates shall include for comprehensive maintenance during defects liability period of 12 months from the date of handing over (o) The tenderer shall submit the following information on the items/equipments quoted for together with the tender. <ul style="list-style-type: none"> a. make b. model No. c. technical data d. country of manufacture e. delivery period f. lead time for manufacturing. g. port of shipping h. CIF value of each item in foreign currency. i. Optional items and their additional cost. (additional cost to be submitted separately) k. 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. l. Details of all special features m. schedule attached to specification. (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. (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. (r) All materials, equipment wiring shall confirm to local codes, specifications, standards/latest I.E.E. regulations (BS 7671). 					
13.2.00	<u>MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM</u> <u>Distribution Boards (DB)</u>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
	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.					
13.2.01	Main Panel Boards	nr	1.00			
13.2.02	Distribution Boards	nr	13.00			
13.2.03	Internet switch board	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/ truncking /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					
	<u>CABLING UP TO MDB</u>					
13.2.04	Cabling from Electrical source to main panel board	item	1.00			
13.2.05	Cabling from main panel board source to DB	item	1.00			
13.2.06	Cabling from main internet source to internet switch board	item	1.00			
13.3.00	<u>GENERAL EARTHING</u>					
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 lights,switches, power outlet,data points,isolators, etc, all as specified in the drawing					
13.4.01	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	506.00			
13.4.02	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	349.00			
13.5.00	<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 light (12W)	nr	89.00			
13.5.02	Recessed Ceiling light (12W)	nr	28.00			
13.5.03	Ceiling down light (18W) - weather proof	nr	25.00			
13.5.04	3FT LED tube light	nr	84.00			
13.5.05	100W, HPS, Wall mount light , IP 65	nr	2.00			
13.5.06	42" to 48" Ceiling fan	nr	66.00			
13.5.07	Ceiling Recessed spot light (3W)	nr	8.00			
13.5.08	Ceiling mounted exhaust fan	nr	17.00			
13.5.09	Light switch (1 G)	nr	14.00			
13.5.10	Light switch (2 G)	nr	31.00			
13.5.11	Light switch (3 G)	nr	3.00			
13.5.12	Light switch (4 G)	nr	16.00			
13.5.13	Light switch (5 G)	nr	32.00			
13.5.14	Ceiling fan switch controller	nr	66.00			
13.5.15	Emergency lights	nr	25.00			
	<u>SOCKETS</u>					
13.5.16	13 A twin socket outlet (Floor mount and wall mount - Refer drawings)	nr	170.00			
13.5.17	13 A power outlet	nr	30.00			
13.5.18	15 A switch socket	nr	32.00			
13.5.19	HDMI socket	nr	20.00			
13.5.20	Telephone outlet	nr	7.00			
13.5.21	Telephone extention	nr	15.00			
13.5.22	Telephone extention in floor mount pop-up box	nr	32.00			
13.5.23	Computer Network Outlet	nr	7.00			
13.5.24	Computer network twin outlet in floor mount pop-up box	nr	36.00			
13.5.25	Wall mount speakers	nr	12.00			
13.6.00	TOTAL OF BILL №: 13 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.0.00	Bill №: 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.					
	<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	Connection to MWSC/FENAKA water meters.	item	1.00			
14.2.03	All pipe works under ground/floor screed/slab to be laid for Waste water, sewage, fresh water and well water connection.	item	1.00			
14.2.04	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			
14.2.05	MWSC/FENAKA water connection to all toilets. Rate shall include for supply and laying of pipes.	item	1.00			
14.3.00	<u>DISCHARGE WORK</u>					
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	<u>FIXTURES</u>					
	Complete installation, cleaning and testing of:					
14.4.01	Wash basin	nr	18.00			
14.4.02	Wash basin tap	nr	18.00			
14.4.03	Kitchen sink with tap	nr	1.00			
14.4.04	Laboratory sinks with taps	nr	7.00			
14.4.05	Muslim shower with stop valve	nr	16.00			
14.4.06	Soap holder	nr	16.00			
14.4.07	Floor Drain	nr	18.00			
14.4.08	Floor Gully	nr	6.00			
14.4.09	Wall mirror	nr	19.00			
14.4.10	Water Closet	nr	17.00			
14.4.11	1725 x 600 Counter top with tile finish	nr	4.00			
14.4.12	Water pump	nr	1.00			
	<u>DISABLED TOILET</u>					
14.4.13	Wash basin	nr	1.00			
14.4.14	Wash basin tap	nr	1.00			
14.4.15	Muslim shower with stop valve	nr	1.00			
14.4.16	Soap holder	nr	1.00			
14.4.17	Floor Gully	nr	1.00			
14.4.18	Face Mirror	nr	1.00			
14.4.19	Water Closet	nr	1.00			
14.4.20	Hand railings on door	set	1.00			
14.4.21	Grab railings	item	2.00			
14.5.00	TOTAL OF BILL №: 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	<u>GENERAL</u>					
	(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories					
	(b) Rates for 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	<u>FIRE ALARM SYSTEM</u>					
15.2.01	Supply and installation of Fire alarm control panel	nr	1.00			
15.2.02	Supply and installation of smoke detector	nr	43.00			
15.2.03	Supply and installation of Manual call point	nr	3.00			
15.2.04	Supply and installation of sounder/bell	nr	3.00			
15.2.05	Supply and installation of beacons	nr	3.00			
15.2.06	Supply and installation of exit sign light	nr	26.00			
15.3.00	<u>FIRE EXTINGUISHERS (Confirming to BS EN 3-10)</u>					
15.3.01	Supply and installation of 2Kg CO2 Extinguishers	nr	5.00			
15.3.02	Supply and installation of 9 Lt. water Extinguishers.	nr	5.00			
15.4.00	TOTAL OF BILL №: 15 - Carried Over To Summary					

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