BILL OF QUANTITIES HALL at SAFE ROOM

CLIENT: MINISTRY OF EDUCATION, GOVERNEMNT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES

HALL at SAFE ROOM

DESCRIPTION	AMOUNT	%
Bill №: 01 - PRELIMINARIES		
Bill №: 02 - EXCAVATION AND FILLING		
Bill №: 03 - INSITU CONCRETE WORKS		
Bill №: 04 - MASONRY		
Bill №: 05 - DOORS, SHUTTERS & HATCHES		
Bill №: 06 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS		
Bill №: 7 - PAINTING & DECORATIONS		
Bill №: 8 - MECHANICAL & ELECTRICAL SERVICES		
Bill №: 9 - PLUMBING		
Bill №: 10- ADDITIONS AND OMMISIONS		
TOTAL AMOUNT		

Male', Republic of Maldives

BILL OF QUANTITIES

		UNIT	QTY	RATE	RATE	AMOUNT
1.0.00	Bill №: 01 - PRELIMINARIES					
1.1.00 GENER						
	<u>Abbreviations</u>					
	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 N	MANAGEMENT COSTS					
1.2.00						
	Allow for all on and off site management cost including costs of foreman	item	1.00			
	and assistants, temporary services, telephone, fax, hoardings & similar.	itteiii	1.00			
1.3.00 SIGN E	ROAPD					
1.3.00 SIGN I	Allow for sign board.	nr	1.00			
	Allow for sign board.	111	1.00			
1.4.00 CLEAN	N-LIP					
1.4.00 <u>CELAN</u>	Allow for clean-up upon completion of works.	item	1.00			
	Allow for clean up apon completion of works.	100111	1.00			
1.5.00 INSUR	RANCE, BONDS, GUARANTEES AND WARRANTIES					
1.5.00	Insurance as stated in the general conditions.	item	1.00			
			2.00			
1.6.00 TOTAL	L 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	, ,	Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, and disposing surplus soil.					
2.2.00 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	m²	25.50			
		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	8.19			
2.3.02		Excavation for Foundation beams	m ³	0.81			
2.4.00 2.4.01		Rate shall include for: levelling, grading, trimming, compacting and similar Compacted earth filling under ground slab	m ³	10.37			
2.5.00		MBRANE Rate shall include for: dressing around and sealing to all penetrations,laps and turnups.	m ²	2.84			
2.6.00 2.6.01	<u>DE-WATERING</u>	De-watering the excavation until completion of concrete work as required	item	1.00			
2.7.00	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			NATE	NATE	
3 1 00	GENERAL					
3.1.00	 (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, 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 sika plastocrete plus 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	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	0.08			
3.3.00	REINFORCED INSITU CONCRETE					
0.0.00	SUB-STRUCTURE					
3.3.01	FOUNDATION PADS 550 x 550 x 250mm Foundation pads, F1	m ³	0.30			
3.3.01		'''	0.50			
3.3.02	FOUNDATION BEAMS 300 x 175 mm Foundation beam, TB	m ³	0.60			
3.3.03	COLUMNS 175 x 175 mm Concrete columns C1	m ³	0.05			
		'''	0.03			
3.4.00	GROUND FLOOR					
3.4.01	COLUMNS 175 x 175 mm Concrete columns C1	m ³	0.33			
3.4.02	SLABS 100 mm thk Concrete Slab on ground floor	m ³	0.93			
3.6.00	ROOF					
3.6.01	BEAMS 350 x 175 mm Beam RB	m ³	0.70			
3.6.02	SLABS 130 mm thick Concrete Slab on Roof level-01 130 mm this slab to be water proofed with MasterPel or similar water proofing agent	m ³	1.46			
3.8.00	OTHER WORKS					
3.8.01	Lintel and Sill beams 150 x 150 mm Beam LT1	item	0.03			
3.9.00	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 <u>GE</u>	(a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, 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 BL 4.2.01 4.2.02 4.2.03	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 GROUND FLOOR 150 mm thick 200mm heigh roof masaonary wall	m² m²	30.78			
4.2.03	150 mm thick masonary step TOTAL OF BILL №: 04 - Carried Over To Summary	m ⁻	0.13			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
5.0.00	Bill №: 05 - DOORS, SHUTTERS & HATCHES					
5.1.00	(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.					
5.2.01	DOORS GROUND FLOOR 2100 x 850 D1 - 25x40x2.5mm RHS steel framed with steel panel steel double lock, bird lock and pad lock Steel double lock, bird lock and pad lock with all the requirements in the drawing	nr	1.00			
5.4.00	Others 50mm thick vent pipes TOTAL OF BILL №: 05 - Carried Over To Summary	nr	16.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
6.0.00	Bill №: 06 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
6.1.00 <u>GE</u>	<u>NERAL</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) "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. (c) For the description of materials refer to the Drawings and technical 					
6.2.00 PL	ASTERING 20 mm thk cement plaster on external surface as specified on the drawing.					
	Waterproofed with MasterPel product or equivalent.					
6.2.01	GROUND FLOOR	m ²	38.43			
	16 mm thk cement plaster on internal surface as specified on the drawing					
6.2.03	GROUND FLOOR	m ²	31.35			
6.3.00 <u>CEI</u>	MENT SCREED					
	50 mm thk cement screed with 2.5mm self levelling cement screed					
6.3.01	GROUND FLOOR	m ²	7.56			
6.3.02	35 mm thk cement screed with 2.5mm cement screed for the step GROUND FLOOR	m²	0.35			
6.4.00 FLC	OOR TILING					
	600 x 600 mm Homogenous Non-slip tiles					
6.4.01	GROUND FLOOR	m ²	7.56			
6.7.00	TOTAL OF BILL №: 06 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
7.0.00	Bill №: 7 - PAINTING & DECORATIONS					
7.1.00	<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.					
	(c) All paints should be of Nippon brand or quivalent					
7.2.00	WALL PAINTING					
7.2.01	Weatherbound paint finish as specified (EXTERNAL SURFACES) GROUND FLOOR	m²	38.43			
	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES)					
7.2.02	GROUND FLOOR	m ²	31.35			
7.3.00	CEILING PAINTING					
	Emulsion paint finish including putty application on slab soffit					
7.3.01	GROUND FLOOR	m ²	7.56			
7.4.00	FLOOR PAINTING					
	Epoxy floor paint					
7.4.01	GROUND FLOOR	m ²	7.56			
7.4.02	Step (2 coats of epoxy)	m ²	0.35			
7.4.03	Weatherbound paint finish as specified (SLAB SOFFIT) GROUND FLOOR	m ²	7.56			
7.4.04	Emulsion paint finish including putty application on ceiling as specified (CEILING) GROUND FLOOR	m²	7.56			
7.5.00	TOTAL OF BILL №: 7 - Carried Over To Summary					

8.1.00 SENERAL (a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELOC/FENAXA. (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/Dimisions 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 accessories. (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 incessary accessories such as sockets, connections, cable glands and blowes, hardware clips, soldering and jointing materials etc., for proper installing and laying of adoles. (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 points, which 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 socked 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/french covers. Rate for under ground cables shall include for all necessary exeavation, sand layers, concrete lies, warning strips and back filling with approved quality earth properly compacted, hot dipped galvenized brackets for trenches, accessive, are as anolizable. (i) The contractors shall provide a schedule of all builder's work in connection with details of such items as necessary, along with the tender. (i) Rates for materials/ plants/ equipments not approved for duty free fa	
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(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. 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.	
j. 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.	
I. 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 l.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.	
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ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
8.2.00	MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM					
	Distribution Boards (DB) 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 enclouser with neutral link, earth bar and required accessories, all complete as per the specifications & drawings.					
8.2.01	Distribution Boards	nr	1.00			
	MAIN / SUB CABLING All under ground cables directly buried in ground/ in the trenches as appilcable, 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 satisfication of the Engineer.					
	All above ground cables shall be laid on cable tray/ trucnking /conduits as appilcable 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 satisfication of Engineer					
8.2.03	CABLING UP TO MDB Cabling from main Electrical source to DB	item	1.00			
8.3.00	POINT WIRING AND FITTINGS 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					
8.3.01	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	3.00			
8.4.00	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 lamps/fittings shall be supplied by reputed manufacturer and relevent technical specification for each every fittings to be forwarded					
	<u>LIGHTS AND SWITCHES</u>					
8.4.01	Ceiling down light (18W)	nr	2.00			
8.4.04 8.4.05	Ceiling fan (52" - 54") Ceiling fan switches	nr nr	1.00 1.00			
8.4.07	Light switch (2 G)	nr	1.00			
	SOCKETS 13. A twin cockets	nr	1.00			
8.5.01	13 A twin sockets	nr	1.00			
8.6.00	TOTAL OF BILL №: 8 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.0.00	Bill №: 9 - PLUMBING					
9.1.00 <u>GENE</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. 					
o o oo Discil						
9.2.00 DISCH 9.2.01	Provide and fix UPVC pipes including vent pipes, vent cowls, cleaning eye,					
	connections, fittings, valves, excavations, ducting, fixing with brackets, connecting to exisitng sewer line and leak testing.	item	1.00			
9.2.02	63mm dia rainwater pipe with drain	item	1.00			
9.3.00	TOTAL OF BILL №: 9 - Carried Over To Summary					

10.0.00 10.1.00 <u>ADDITIONS</u>	Bill №: 10- ADDITIONS AND OMMISIONS		RATE		
				RATE	
10.1.01 10.1.02 10.1.03 10.1.04 10.1.05 10.1.06 10.1.07 10.1.08 10.1.09 10.1.10	Bill №: 01 - PRELIMINARIES Bill №: 02 - EXCAVATION AND FILLING Bill №: 03 - INSITU CONCRETE WORKS Bill №: 04 - MASONRY Bill №: 05 - DOORS, SHUTTERS & HATCHES Bill №: 06 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS Bill №: 07 - PAINTING & DECORATIONS Bill №: 08 - MECHANICAL & ELECTRICAL SERVICES Bill №: 09 - PLUMBING Bill №: 10 - INSULATION, FIRE STOPPING & FIRE PROTECTION				
10.2.00 OMISSIONS 10.2.01 10.2.02 10.2.03 10.2.04 10.2.05 10.2.06 10.2.07 10.2.08 10.2.09 10.2.10	Bill №: 01 - PRELIMINARIES Bill №: 02 - EXCAVATION AND FILLING Bill №: 03 - INSITU CONCRETE WORKS Bill №: 04 - MASONRY Bill №: 05 - DOORS, SHUTTERS & HATCHES Bill №: 06 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS Bill №: 07- PAINTING & DECORATIONS Bill №: 08 - MECHANICAL & ELECTRICAL SERVICES Bill №: 09 - PLUMBING Bill №: 10 - INSULATION, FIRE STOPPING & FIRE PROTECTION				
	TOTAL				