

# **BILL OF QUANTITIES**

PROJECT TITLE

LOCAL MARKET

H.DH.KULHUDHUFUSHI

MALE'

REPUBLIC OF MALDIVES

CLIENT

LGA

DATE

Apr-15

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**BILL OF QUANTITIES**

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 01</b>					
<b><u>PRELIMINARIES</u></b>					
<b>1.1</b>	<b><u>SITE MANAGEMENT COSTS</u></b>				
(1)	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings and similar.	1.00	item		
<b>1.2</b>	<b><u>SITE SAFETY / SECURITIES</u></b>				
(1)	Allow lump sum for health and safety measures for labor and contractor's staff	1.00	item		
(2)	Allow a lump sum for maintaining <b>adjoining existing structures</b> damages caused by the contractor when the Works carried out by the Contractor and take necessary precautions to protect the buildings.	1.00	item		
(3)	Allow for erecting and maintaining of temporary <b>scaffoldings</b> , supports, platforms and climbing stairs and remove on completion of the Works including temporary re-erectings if required.	1.00	item		
<b>1.3</b>	<b><u>CLEANING UPON COMPLETION</u></b>				
(1)	Cleaning the site upon completion of all works	1.00	item		
<b>BILL No: 01 - PRELIMINARIES</b>					
<b>TOTAL OF BILL No: 01 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 02</b>					
<b><u>EARTH WORKS</u></b>					
<b>2.1</b>	<b><u>SITE CLEARING</u></b>				
(1)	Demolition ,leveling and cleang, waste materials away from the site.	1.00	item		
<b>2.2</b>	<b><u>EXCAVATION</u></b>				
	Note: Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork/shuttering and dewatering the trenches for the required days.				
(1)	Excavation for foundation beams	43.00	m <sup>3</sup>		
<b>2.3</b>	<b><u>DAMP PROOFING</u></b>				
	Note: Rates shall include for: dressing around and sealing to avoid all penetrations				
(1)	Damp proof membrane under foundation beams	71.00	m <sup>2</sup>		
(2)	Damp proof membrane under ground flr slab	438.00	m <sup>2</sup>		
(3)	Apply 2 coats of bituminous paint or similar on all concrete surfaces below ground level in accordance with manufacturer's instructions	189.00	m <sup>2</sup>		
<b>2.4</b>	<b><u>EARTH FILLING</u></b>				
	Rates shall include for levelling, grading, trimming and compacting.				
(1)	Back filling	16.00	m <sup>3</sup>		
(2)	350mm thk hardcore	154.00	m <sup>3</sup>		
<b>BILL No: 02 - EARTH WORKS</b>					
<b>TOTAL OF BILL No: 02 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 03</b>					
	<b><u>CONCRETE</u></b>				
	(a) Rates shall include for: provision to place in position; casting of all required items and finishing after removal of formwork and additional concrete required to conform to structural and excavated tolerances				
	(b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc.				
	(c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume				
<b>3.1</b>	<b><u>LEAN CONCRETE</u></b>				
	Note: Quantity is measured to the edges of concrete members. Rates shall be inclusive of any additional concrete required to place the formwork.				
(1)	50mm thick lean concrete to bottom of foundation beam	71.00	m <sup>2</sup>		
<b>3.2</b>	<b><u>REINFORCED CONCRETE</u></b>				
	In-situ reinforced concrete to:				
<b>3.2.1</b>	<b><u>Foundation level</u></b>				
(1)	Foundation beams	27.00	m <sup>3</sup>		
(2)	2m dia Groud well top cover	1.00	nos		
<b>3.2.2</b>	<b><u>Ground Floor</u></b>				
(1)	Columns	5.60	m <sup>3</sup>		
(2)	Ground floor slab 75 mm thk	33.00	m <sup>3</sup>		
(3)	Concrete ramp finish as per drawings Rates shall include .formwork,reinforcement and allow for floor paint	1.00	item		
<b>3.2.3</b>	<b><u>Roof</u></b>				
(1)	Attached beams	12.00	m <sup>3</sup>		
<b>3.3</b>	<b><u>FORMWORK</u></b>				
	(a) 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.				

Item	Description	Qty	Unit	Rate	Amount
3.3.1	<b><u>Foundation level</u></b>				
(1)	Foundation beams	189.00	m <sup>2</sup>		
(2)	Groud well top cover	1.00	nos		
3.3.2	<b><u>Ground Floor</u></b>				
(1)	Columns	91.00	m <sup>2</sup>		
(2)	Ground floor slab 75mm thk	9.45	m <sup>2</sup>		
3.3.3	<b><u>Roof</u></b>				
(1)	Attached beams	127.00	m <sup>2</sup>		
3.4	<b><u>REINFORCEMENT</u></b>				
	(a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and chair supports, laps and wastage				
	(b) All reinforcing bars except 6mm dia bars shall be high strength deformed bars				
	(c) The exact length exclusive of laps are given. The rates shall take into account laps and any wastage.				
3.4.1	<b><u>Foundation</u></b>				
(1)	12 mm dia. bars in foundation beams	1,011.00	kg		
3.4.2	<b><u>Ground Floor</u></b>				
(1)	12mm dia. bars in columns	349.00	kg		
(2)	6 mm dia. bars in columns	112.00	kg		
(3)	6 mm dia. bars in ground slab @ 300 c/c bothways	1,746.00	kg		
3.4.3	<b><u>Roof</u></b>				
(1)	12mm dia. bars in beams	559.00	kg		
(2)	6 mm dia. bars in beams at 150c/c	198.00	kg		
<b>BILL No: 03 - CONCRETE</b>					
<b>TOTAL OF BILL No: 03 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 04</b>					
	<b><u>MASONRY AND PLASTERING</u></b>				
	Note: Rates shall include for: blocks, cutting or leaving holes and openings as recesses, 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 (a) Mix ratio for Plastering & masonry shall be 1:3.				
<b>4.1</b>	<b><u>HOLLOW BLOCK WORK</u></b> 150mm thick masonry for external and internal walls shall be 100 mm thick				
(1)	Ground floor				
	Interior ( including low walls)	274.00	m <sup>2</sup>		
	Exterior	276.00	m <sup>2</sup>		
<b>4.2</b>	<b><u>PLASTERING</u></b> 15mm thk for interior, 20mm thk for exterior plastering on walls and concrete surfaces.				
(1)	Ground floor				
	Interior	824.00	m <sup>2</sup>		
	Exterior	276.00	m <sup>2</sup>		
<b>4.3</b>	<b><u>FLOORING</u></b> 45mm thk, 1:4 cement sand screeding on the floor to receive steel trowel finish, inclusive of stair case.				
(1)	Ground floor	439.00	m <sup>2</sup>		
<b>BILL No: 04 - MASONRY AND PLASTERING</b>					
<b>TOTAL OF BILL No: 04 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 05</b>					
	<b><u>METAL /WOOD WORKS</u></b>				
	Note: (a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts including 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 all painting and finishing.				
	(c) Rates shall include for fabrication and erection of temporary supports and fixing into position				
<b>5.1</b>	<b><u>Truss</u></b>				
(1)	TR1 with angle cleats	6.00	nos		
(2)	TR2, with angle cleats	6.00	nos		
<b>5.2</b>	<b><u>Purlins</u></b>				
(1)	C- purlins @ 600c/c	855.00	m		
(2)	Painting of the above inclusive of anti corrosive paint	1.00	item		
<b>BILL No: 05 - METAL WORKS</b>					
<b>TOTAL OF BILL No: 05 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 06</b>					
<b><u>CEILING</u></b>					
<b>6.1</b>	<b><u>SUSPENDED CEILING</u></b>				
	"6mm thk fiber cement board for external & 6mm thk plywood for internal suspended ceiling system as specified with all necessary framing, beading, screws etc. Rates shall also include for finishing as specified				
(1)	Ground floor				
	Interior	346.00	m <sup>2</sup>		
	Exterior	105.00	m <sup>2</sup>		
<b>BILL N0: 06 - CEILINGS</b>					
<b>TOTAL OF BILL No: 06 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL N0: 07</b>					
<b><u>DOORS AND WINDOWS</u></b>					
	Notes: (a) Rates shall include for locks, latches, closures, 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, boarding, framing, lining, fastenings and all fixings				
	(c) Rates shall include for finishing				
<b>7.1</b>	<b><u>DOORS AND WINDOWS</u></b>				
(1)	D1 (Aluminium framed door)	4.00	nos		
(2)	D2 (Aluminium framed door)	2.00	nos		
(3)	D3 (Aluminium framed door)	4.00	nos		
(4)	D4 (Aluminium framed door)	4.00	nos		
(5)	D5 (Wooden framed door)	2.00	nos		
(6)	W1 (Aluminium framed window	4.00	nos		
(7)	W2 (Aluminium framed window	4.00	nos		
(8)	W4 (Aluminium framed window	6.00	nos		
(9)	W5 (Aluminium framed window	2.00	nos		
(10)	W6 (Aluminium framed window	4.00	nos		
(11)	W7 (Aluminium framed window	4.00	nos		
(12)	Steel framed screens	4.00	nos		
<b>BILL N0: 07 -DOORS AND WINDOWS</b>					
<b>TOTAL OF BILL No: 07 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL NO: 08</b>					
	<b><u>FINISHES</u></b>				
	Note: Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.				
<b>8.1</b>	<b><u>FLOOR FINISHES</u></b>				
(1)	600x600mm matt Homogenous tiles on floor	427.00	m <sup>2</sup>		
(2)	300x300mm matt Ceramic tiles on toilet floor	11.00	m <sup>2</sup>		
<b>8.2</b>	<b><u>WALL FINISHES</u></b>				
(1)	300x400mm Ceramic tiles on toilet wall @ 2.1m	57.00	m <sup>2</sup>		
<b>BILL No: 08 - FINISHES</b>					
<b>TOTAL OF BILL No: 08 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 09</b>					
<b><u>HYDRAULICS &amp; DRAINAGE</u></b>					
<b>9.1</b>	<b><u>HYDRAULICS</u></b>				
	<b><u>Preamble notes</u></b>				
	a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cuttin				
	(b) All pipe work and fittings shall be high pressure PVC				
	(c) Rate shall include for supply and fixing of all pipes				
<b>9.1.1</b>	<b><u>Internal Plumbing</u></b>				
(1)	Internal plumbing to all toilets, washrooms, pantries and work area sinks incl. supply and laying of pipes.	1.00	item		
<b>9.1.2</b>	<b><u>External Plumbing</u></b>				
(1)	Waste water and sewage connection from all the toilets & kitchen inc. supply and laying of pipes.	1.00	item		
(2)	Waste water and solid waste connection to Public junction box inc. supply and laying of pipes.	1.00	item		
<b>9.1.3</b>	<b><u>Sanitary Fixtures &amp; Accessories</u></b>				
	Sanitary fixtures complete including brackets, stop valves, fittings etc. All sanitary fittings shall be of 'Rapetti' brand or equivalent and all fixtures shall be of 'Duravit' brand or equivalent.				
(1)	WC suites incl. Flush tank and fittings	2.00	nos		
(2)	Wash Basins incl. taps and fittings	2.00	nos		
(3)	Water tap	2.00	nos		
(4)	Mirror	2.00	nos		
(5)	Soap tray	2.00	nos		
(6)	Floor drain	4.00	nos		
(7)	Muslim shower	2.00	nos		
(8)	Paper holder	2.00	nos		
<b>9.1.4</b>	<b><u>Pumps</u></b>				

Item	Description	Qty	Unit	Rate	Amount
(1)	Supply and installation of appropriate capacity Water pump 'Davey' or equivalent, complete including pump stand, connecting to pipe work and electricity as specified				
	Davey water pump	1.00	item		
<b>9.2</b>	<b><u>DRAINAGE</u></b>				
	<b><u>Preamble notes</u></b>				
	(a) Rates shall include for excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints and all joints and other incidental materials.				
	(b) All pipework shall be PVC				
<b>9.2.1</b>	<b><u>Rainwater discharge pipe</u></b>				
(1)	ø 75mm PVC Rainwater down pipe from roof to the rainwater collection tank	1.00	item		
<b>9.2.2</b>	<b><u>Inspection chambers</u></b>				
	Inspection chambers complete as shown on the drawings incl all pipe connections and similar				
(1)	Cleaning chambers	1.00	nos		
(2)	Inspection chambers	1.00	nos		
<b>BILL No: 09 - HYDRAULIC AND DRAINAGE</b>					
<b>TOTAL OF BILL No: 09 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 10</b>					
	<b><u>PAINTING</u></b>				
	Note: (a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door window furniture (b) All painting work shall be carried in accordance with the Specifications				
<b>10.1</b>	<b><u>WALLS / CONCRETE SURFACES</u></b>				
	Nippon or equivalent emulsion paint finish on cement plastered walls and concrete surfaces. Exterior walls should be applied with weather proof paint. Allow for applied 1-coats of Alkali Resisting primer on all plastered surface.				
(1)	Ground floor				
	Interior	824.00	m <sup>2</sup>		
	Exterior	276.00	m <sup>2</sup>		
<b>10.2</b>	<b><u>CEILING SURFACES</u></b>				
	Nippon or equivalent paint finish on soffits of concrete slab and staircase including application of putty, grinding and sanding as specified				
(1)	Ground floor				
	Interior	346.00	m <sup>2</sup>		
	Exterior	105.00	m <sup>2</sup>		
<b>BILL No: 10 - PAINTING</b>					
<b>TOTAL OF BILL No: 10 - Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 11</b>					
<b><u>ELECTRICAL &amp; SPECIFIC INSTALLATIONS</u></b>					
	<p>(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories</p> <p>(b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil</p> <p>(c) Rates for electrical conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces</p> <p>(d) Light end and switch end of wiring together measured as one point</p> <p>(e) A point wiring for power points is measured as one point for each socket outlet; other end of wire is not included in the quantity.</p> <p>(f) Rates shall include for supply and complete installation</p> <p>(g) Three phase power supply.</p>				
<b>11.1</b>	<b><u>ELECTRICAL BOARDS</u></b>				
	Complete installation, including for all connections, earthing, painting, testing and similar of:				
	Three phase main panel board with connections from the mains including meter, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification				
(1)	Panel board	1.00	nos		
(1)	Electricity meters	4.00	nos		
(2)	Distribution Board	4.00	nos		
<b>11.2</b>	<b><u>ELECTRICAL WIRING</u></b>				
	Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level.				
(1)	Wiring to Lighting	#REF!	points		
(2)	Wiring to Power outlets	90.00	points		
(3)	Wiring to D/B	1.00	item		
(4)	Main connection nearest sub distribution box	1.00	item		

Item	Description	Qty	Unit	Rate	Amount
<b>11.3</b>	<b><u>LIGHTING, POWER POINTS &amp; FANS</u></b> All lights shall be 'Philips' brand or equivalent, all switches, sockets etc. shall be 'Legrand' brand or equivalent, Air condition system shall be Hitachi or equivalent				
(1)	2x4' led tube light ( T8, pure white)	33.00	nos		
(2)	2x2' led tube light ( T8, pure white)	12.00	nos		
(3)	1x4' led tube light ( T8, pure white)	3.00	nos		
(4)	1x2' led tube light ( T8, pure white)	4.00	nos		
(5)	Wall mount decorative led Light (Weather proof)	13.00	nos		
(6)	Ceiling fan 56"	4.00	nos		
(7)	AC (18000BTU Inverter split	2.00	nos		
(8)	24 led emergency light	15.00	nos		
(9)	Switch 1 gang	33.00	nos		
(10)	Switch 2 gang	5.00	nos		
(11)	Switch 3 gang	2.00	nos		
(12)	Socket 1 Gang - 13A	75.00	nos		
(13)	Socket 2 Gang - 13A	5.00	nos		
(14)	Socket 1 Gang - 15A	10.00	nos		
(15)	Net work	4.00	nos		
(16)	TV	2.00	nos		
(17)	Telephone	4.00	nos		
<b>11.4</b>	<b><u>FIRE ALARM &amp; FIGHTING SYSTEM</u></b> Provide & install fire fighting equipment inclusive of all necessary connection as per local regulations as described				
(1)	CO2 Extinguisher(2kg)	5.00	nos		
(2)	Water Extinguisher(9ltr, 13A)	5.00	nos		
<b>BILL No: 11 - ELECTRICAL&amp; SPECIFIC INSTALLATIONS</b>					
<b>TOTAL OF BILL No: 11- Carried over to summary</b>					

Item	Description	Qty	Unit	Rate	Amount
<b>BILL No: 12</b>					
	<b><u>ROOF TRUSS AND COVER</u></b>				
	(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories				
<b>12.1</b>	<b><u>ROOF COVER AND ACCESSORIES</u></b>				
	Corrugated roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories				
(1)	lysaght roofing sheets	525.00	m <sup>2</sup>		
(2)	Rockwool heat insulation	525.00	m <sup>2</sup>		
(3)	Lysaght Gutter	35.00	m		
(4)	Lysaght ridge cap	32.00	m		
(5)	Wooden fascia board 1"x10" inclusive of brackets	35.00	m		
(6)	Lysaght flashing	27.00	m		
<b>BILL No: 12 - ROOF TRUSS AND COVER</b>					
<b>TOTAL OF BILL No: 12- Carried over to summary</b>					

SUMMARY		
1.0	PRELIMINARIES	
2.0	EARTH WORKS	
3.0	CONCRETE	
4.0	MASONRY AND PLASTERING	
5.0	METAL WORKS	
6.0	CEILING	
7.0	DOORS AND WINDOWS	
8.0	FINISHES	
9.0	HYDRAULICS & DRAINAGE	
10.0	PAINTING	
11.0	ELECTRICAL & SPECIFIC INSTALLATIONS	
12.0	ROOFING WORKS	
TOTAL		
ADD GST 6%		
TOTAL COST IN MRF		
DURATION IN DAYS		