

Project: Construction of Male City Council Building

SUMMARY OF BILLS

Bill No.	Description	Amount (MVR)
1	HYDRAULICS & DRAINAGE	-
2	ELECTRICAL INSTALLATIONS	-
3	INSULATION, FIRE STOPPING & FIRE PROTECTION	-
4	ADDITIONS & OMISSIONS	-
Sub Total of Bills		-
Goods and Service Taxes (8%)		-
Grand Total of Bills		-

BILL OF QUANTITIES					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.0.00	Bill №: 01 - HYDRAULICS AND DRAINAGE				
1.1.00	HYDRAULICS				
1.2.00	<u>GENERAL</u>				
	(a) All plumbing works included herein shall be executed according to the provisions of the plumbing code of the Maldives. In the absence thereof, shall be in accordance with acceptable international code and standards.				
	(b) Coordinate the drawing with other related drawings and specification. The engineer shall be notified immediately of any discrepancy found therein.				
	(c) All pipes shall be installed as indicated on plans. Any relocations required for proper execution of other trade shall be with prior approval of the Architect or Engineer.				
	(d) Proposed sanitary utilities shall confirm to the actual location. Depth and invert elevation of all existing pipes and structures as verified by the contractor.				
	(e) All slopes for horizontal drainage shall maintain 1% unless otherwise specified.				
	(f) Size of water supply pipes to fixtures shall be in accordance with the manufacturer's instructions.				
	(g) The contractor shall verify all existing utilities at site, coordinate the works with the sewer line effluent disposal point and water line service connecting point.				
	(h) All pipe sizes are in millimeters and all dimensions are in meters unless otherwise specified				
	(i) The proposed utilities shall be made to conform to the actual location, tapping point, depth and invert levels of all existing pipes and structures as verified by the contractor.				
	(j) All pipe diameter indicated on plans are nominal pipe sizes.				
	(k) Vent and waste stack to connect to soil pipe. Soil pipe stack as main soil and waste vent through roof				
1.3.00	<u>MWSC WATER SUPPLY NETWORK</u>				
1.3.01	Connection to main network	item	1.00		
1.3.02	GROUND FLOOR	item	1.00		
1.3.03	FIRST FLOOR	item	1.00		
1.4.00	<u>SANITARY FITTINGS</u>				
	Sanitary fittings including installations as per drawings				
1.4.01	Water Closet	nr	32.00		
1.4.02	Lavatory	nr	29.00		
1.4.03	Floor Drain	nr	50.00		
1.4.04	Ball Valve	nr	32.00		
1.4.05	Angle Valve	nr	46.00		
1.4.06	P Trap	nr	29.00		
1.5.00	<u>DRAINAGE PIPEWORKS</u>				
1.5.01	Connection to main network	item	1.00		
1.5.02	GROUND FLOOR	item	1.00		
1.5.03	FIRST FLOOR	item	1.00		
1.6.00	<u>WATER PUMP</u>				
1.5.01	Designing supply and installation of Ground water pump, Deavy or equivalent.	item	1.00		
1.8.00	TOTAL OF BILL №: 01 - Carried Over To Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.0.00	Bill No: 02 - ELECTRICAL INSTALLATIONS				
2.1.00	<u>GENERAL</u>				
	(a) All lights to be connected to their respective DB				
	(b) All corridor lights and outdoor lights are timmered				
	(c) The AC unit shall be suitable for operation under tropical condition with ambient temperature and relative humidity				
	(d) Proper access for easy maintenance to be provided as recommended by the manufacturer of AC equipment above				
	(e) All ceiling suspended unit to be provided with anti vibration hangers spring type				
	(f) GI Ducting/Pre insulated dcut for common areas and AL Ducting for OTs ,CSSD and sterile areas				
	(g) Acoustic insulation to be provided for duct with minimum 35sqm from each AHU unit except OT and CSSD areas AHUs Canvas connection to be provided between indoor unit and duct				
	(h) Canvas connection to be provided between indoor unit and duct				
	(i) Aluminum cladding to be provided over the insulation for the exposed duct and pipe works				
	(j) Air outlet shall be completely factory aluminum extruded with powder coated and the colour shall be the approval of the interior design				
	(k) Air outlet location and size shall be adjusted to suit reflected ceiling drawing,or site condition				
	(l) Louver with bird screen to be provided for all the fresh air and exhaust air duct				
	(m) Kitchen hood exhaust should be provided in the kitchen areas				
	(n) Contractor shall be responsible to provide electrical power requirements to electrical contractor				
	(o) Contractor shall be responsible for coordination of all other services				
	(p) Contractor shall be responsible to modify,change,reroute,re locate as per the site condition and submit shop drawing for approval				
	(q) Contractor to be provided detailed shop drawings before starting works				
2.2.00	<u>MAINS CONNECTION & BOARD</u>				
2.2.01	Completion of 3 phase electrical main from Fenaka Grid to City Council building.	item	1.00		
2.2.02	Design supply and complete installation of Main Panel Board	nr	1.00		
2.3.00	<u>ELECTRICAL BOARDS</u>				-
2.3.01	Complete installation, including for all cabling, wiring, Distribution Board, ABB or Equivalent	nr	41.00		-
2.4.00	<u>Fixtures</u>				
2.4.01	Cassette Type Bathroom Exhaust fan	nr	7.00		
2.4.02	Exhaust Grill	nr	34.00		
2.4.03	Inline Exhaust Fan	nr	8.00		
2.4.04	600 x 600 Ceiling Panel Light	nr	511.00		
2.4.05	Ceiling Light	nr	113.00		
2.4.06	Wall Light (Stairwell)	nr	2.00		
2.4.07	Emergency Wall Light	nr	100.00		
2.4.08	Outdoor Spotlight	nr	6.00		
2.5.00	<u>SWITCHES</u>				
2.5.01	One Gang Light Switch	nr	27.00		
2.5.02	Two Gang Light Switch	nr	65.00		
2.5.03	Three Gang Light Switch	nr	19.00		
2.5.04	Four Gang Light Switch	nr	8.00		
2.5.05	One Gang Two Way Light Switch	nr	23.00		
2.5.06	Two Gang Two Way Light Switch	nr	18.00		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.6.00	<u>SOCKETS</u>				
2.6.01	One Gang Socket PS1	nr	57.00		
2.6.02	Two Gang Socket Outlet PS2	nr	311.00		
2.6.03	13A Two Gang Socket PS3	nr	68.00		
2.6.04	13A Single Socket PS4	nr	54.00		
2.6.05	13A One Gang Socket 2.4 PS5	nr	19.00		
2.6.06	13A Two Gang Socket 2.4 PS6	nr	12.00		
2.6.07	13A One Gang Socket PS7	nr	22.00		
2.6.08	Lightning Areestor	nr	2.00		
2.6.09	Point Wiring				
	2.5mm2 Wiring to light points	nr	160.00		
	2.5mm2 Wiring to power points	nr	545.00		
2.7.00	<u>IT / SECURTIY SYSTEM</u>				
2.7.01	Data and Telephone Outlet	nr	400.00		
2.8.00	<u>CCTV Cameras</u>				
	Design Supply and Complete installation of CCTV security system as per specifications (Refer to the ICT specification) including all Wiring connection, equipment inclusive of all necessary connection, Rates must includes for backup storate for minimum 2 months. All the Cameras must be high quality resolution with night vision.				
2.8.01	Camera Bullet Type	nr	15.00		
2.8.02	Camera 360 Fisheye Type	nr	17.00		
2.8.00	TOTAL OF BILL №: 02 - Carried Over To Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.0.00	Bill №: 03 FIRE STOPPING & FIRE PROTECTION				
3.1.00	<u>GENERAL</u>				
	(a) Contractor may modify the system to suit the supplied equipment.				
	(b) For actual number of detectors/ annunciator manual pull station and horn, refer to lay-out plan.				
	(c) Firemans telephone jacks at respective floors shall be treated as one zone per floor.				
	(d) j mean fire rated cable gauge #16.				
	(e) Size, type and number of wires may be modified by the contractor to suit the supplied equipment and as per manufacturers standard requirement.				
	(f) Wiring between TB's/ PB's and FACP are multiplex signal wiring.				
	(g) Circuit connection between detectors , MCP, annunciator etc... shall be conform via loop interface modules (addressable).				
	(h) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories				
	(i) Rates for cable conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces				
	(j) Rates shall include for all necessary electrical wiring and accessories required for completion				
	(k) All items shall be supply and complete installation				
3.2.00	<u>FIRE FIGHTING SYSTEM</u>				
3.2.01	Fire Alarm Control Panel	nr	1.00		
3.2.02	Heat Detector	nr	15.00		
3.2.03	Smoke Detector	nr	200.00		
3.2.04	Sounder	nr	12.00		
3.2.05	Glass Manual Call Point	nr	12.00		
3.2.06	C02 Fire Extinguisher	nr	66.00		
3.2.07	H20 Fire Extinguisher	nr	66.00		
3.2.08	DCP Fire Extinguisher	nr	5.00		
3.2.09	Exit Sign	nr	8.00		
3.2.10	Fire Blanket	nr	4.00		
3.2.11	1.5mm Heat resistant fire alarm wire in pvc conduit	item	1.00		
3.3.00	TOTAL OF BILL №: 03 - Carried Over To Summary				-
4.0.00	Bill №: 04 - ADDITIONS AND OMMISIONS				
4.1.00	<u>ADDITIONS</u>				
4.1.14	Bill №: 01 - HYDRAULICS AND DRAINAGE				
4.1.15	Bill №: 02 - ELECTRICAL INSTALLATIONS				
4.1.16	Bill №: 03 FIRE STOPPING & FIRE PROTECTION				
	TOTAL				
4.2.00	<u>OMISSIONS</u>				
4.2.14	Bill №: 01 - HYDRAULICS AND DRAINAGE				
4.2.15	Bill №: 02 - ELECTRICAL INSTALLATIONS				
4.2.16	Bill №: 03 FIRE STOPPING & FIRE PROTECTION				
	TOTAL				
4.3.00	TOTAL OF BILL №: 04 - Carried Over To Summary				