



Ministry of Environment and Energy
Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް އުސޫލުތަކުގެ ދަށުން ދަނީ ބަލާލެވިފައިވާ ގޮތުން
މިއަދު ދަނީ ބަލާލެވިފައިވާ ގޮތުން.

އިދާރާތަކުން ސަފުޞަލަތަކުން: (IUL)438-WMPC/1/2017/54

މިއަދު ބަލާލެވިފައިވާ ގޮތުން: ދިވެހިސަރުކާރުގެ ގެޒެޓް އުސޫލުތަކުގެ ދަށުން ބަލާލެވިފައިވާ ގޮތުން
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މިއަދު ބަލާލެވިފައިވާ ގޮތުން

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መግቢያ

(የግንባታ ስራ)

ይህ ሰነድ የግንባታ ስራ ለማካተት የሚያስፈልገውን ስራ ይዘት ያሳያል።

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	shown on drawing.				
4.4	Lintel for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	0.76		
4.5	Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	1.12		
4.6	Concrete column for sorting area platform cast according to drawing.	m3	0.612		
4.7	Provide 150mm thick reinforced concrete slab for sorting area platform cast according to drawing. Reinforcements shall be as shown on drawing.	m3	1.2		
	<i>Compost Slab</i>				
4.8	Compost slab panels cast according to the slopes shown on drawing. Reinforcement shall be as shown on drawings.	m3	12.00		
4.9	B1 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing.	m3	1.99		
4.10	B2 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing.	m3	0.64		
4.11	B3 beams of compost slab with a mortar layer at an adequate slope, cast according to drawing. Reinforcement shall be as shown on drawing. Rate shall include reinforcement work, formwork, casting and mortar works.	m3	1.35		
4.12	Provide 100mm concrete floor screed for composting area. Reinforcement for the slab shall be R6@150 BW single layer	m3	0.00		
4.13	Leachate collection tank with primary and secondary tanks as shown on drawing. Rate shall include all formwork, casting and placing of the tank	Nos	1		
	<i>Perimeter Wall</i>				
4.14	Perimeter wall column	m3	2.64		
4.15	Perimeter wall beam	m3	3.45		
	<i>Other</i>				
4.16	Foundation for flood light pole	m3	0.29		
4.17	Ground water well casting work	LS	1		
5	Structural steel works				
	<i>Collection Bay Area</i>				
5.1	Provide 75mm G.I pipe as structural columns for collection bay area. Rate shall include all fixings at both ends of the pipe for necessary connections as shown on drawing	Nos	5.00		

5.2	Provide truss as shown on the drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the truss	m	6.15		
	<i>Perimeter Wall</i>				
5.3	Perimeter fence using 50mm G.I pipe as shown on drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and, setting up the fence.	m	90.10		
	<i>Other</i>				
5.4	Perimeter fence using 50mm G.I pipe as shown on drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and, setting up the fence.	m	90.10		
5.5	Provide 75mm G.I pipe as flood light fixing poles. Rate shall include installation charges as shown on drawing.	Nos	2		
6	Masonry works				
	<i>Collection Bay Area walls of thickness 150mm</i>				
6.1	3500mm high walls for Collection Bay Walls	m3	17.17		
6.2	1500mm high walls for Collection Bay section separation	m3	2.40		
	<i>Perimeter walls of thickness 150mm</i>				
6.3	1000mm high wall for perimeter wall	m3	11.49		
	<i>Other</i>				
6.4	2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level)	m3	1.76		
7	Plastering works				
	<i>Collection Bay Area</i>				
7.1	25mm plastering on 3500mm high walls for Collection Bay Outer Walls	m2	271.56		
7.2	25mm plastering on 1500mm high walls for Collection Bay section separation	m2	26.10		
	<i>Perimeter Wall</i>				
7.3	25mm plastering on 1000mm wall for perimeter wall	m2	194.62		
	<i>Other</i>				
7.4	2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level)	m2	12.58		
8	Painting works				
	<i>Collection Bay Area Walls</i>				

8.1	Apply emulsion paint coating on 3500mm high walls for Collection Bay Outer Walls	m2	271.56		
8.2	Apply emulsion paint coating on 1500mm high walls for Collection Bay section separation	m2	26.10		
	<i>Collection Bay Area Steel Members</i>				
8.3	Apply emulsion paint coating on G.I columns of collection bay	LS	1		
8.4	Apply emulsion paint coating on the roof trusses	LS	1		
8.5	Apply paint coating on the metal sliding door of the Hazardous waste storage room	LS	1		
8.6	Apply paint coating on the two metal folding doors of the equipment room	LS	2		
	<i>Perimeter Wall</i>				
8.7	Apply emulsion paint coating on 1000mm high wall for perimeter fence	m2	194.62		
	<i>Perimeter Wall Steel members</i>				
8.7	Apply emulsion paint coating on G.I members of perimeter fence	LS	1		
8.9	Apply emulsion paint coating on G.I members and MS Sheets of gates	LS	1		
	<i>Other</i>				
8.10	Apply paint coating on flood light pole	LS	2		
8.11	Apply emulsion paint coating on the removable timber covers of the leachate collection tanks	LS	2		
8.12	Apply emulsion paint coating on 2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level)	m2	12.58		
	<i>Existing Structure</i>				
	Apply emulsion paint coating on G.I columns of existing structure	LS	1.00		
	Apply emulsion paint coating on 2m high walls of the existing structure	m2	87.50		
9	Roofing works				
	<i>Collection Bay Area</i>				
9.1	Lysaght roofing sheet for collection bay area. Rate shall include all necessary laps, fastening, fixtures and sealing of joints	m2	81.12		
9.2	Roof flashing. Rate shall include fastening and sealing of joints	m	25.50		
9.3	Timber beams - 150 x 75mm. Rate shall include for all fixing and joints.	m	50.70		
9.4	Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints	m	18.78		

9.5	Timber battens - 50 x 38mm. Rate shall include for all fixing and joints.	m	28.17		
	<i>Other</i>				
9.6	Lysaght roofing sheet for Pump House. Rate shall include all necessary laps, fastening, fixtures and sealing of joints	m2	4.00		
9.7	Pump House Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints	m	4.00		
9.8	Pump House Timber battens - 50 x 38mm. Rate shall include for all fixing and joints.	m	6.67		
10	Electrical works				
	<i>Collection Bay Area</i>				
10.1	Provide 3 phase 13 A power sockets in equipment room. Rate shall include connection to circuit breaker and all necessary accessories	Nos	4		
10.2	Provide 100W ceiling mount energy saving light in equipment room, provide the switches near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker	Nos	1		
10.3	Provide 100W ceiling mount energy saving light in hazardous waste storage room, provide the switches near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker	Nos	1		
10.4	Provide and mount a Ceiling fan inside the Equipment Room as indicated. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories	Nos	1		
10.5	Supply and fix electric meter, 4 pole MCCB, Single Phase distribution board and 3 Phase distribution board as shown on drawing. Earth link and connection to earth rod with proper earth pit should be provided as well	LS	1		
10.6	Provide and mount a exhaust fan inside the Equipment Room and Hazardous Waste Storage Room. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories	LS	2		
10.7	Provide weather proof switch for all lights	LS	1		
10.8	Provide 25 sqmm 4 core power supply cable from nearest distribution box to waste yard distribution board	m	150		
	<i>Other</i>				

10.9	Provide 13 A power socket for well water pump inside the Pump House, provide the switch for the pump near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker.	Nos	1		
10.10	Provide 200 W flood light for illuminating the waste yard. Rate shall include connecting each light to a switch near circuit breaker inside the equipment room and providing power to the switch	Nos	2		
10.11	Provide well water pump. Rate shall include its fixing inside the Pump House	Nos	1		
11	Plumbing works				
11.1	Provide connection from pump to ground water well. Rate shall include all necessary pipes, bends, fittings and footvalve and others as maybe required.	LS	1		
11.2	Provide outlet pipes as shown on drawing. Rate shall include connection to pump, bends, fittings and others as maybe necessary.	LS	1		
11.3	Provide PVC taps at ends of outlet pipes.	Nos	2		
11.4	Supply 25mm diameter flexible hose	m	25.0		
12	Doors and windows				
	<i>Metal Doors</i>				
12.1	Provide lockable metal sliding gates for entrance to hazardous waste storage room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well.	Nos	1		
12.2	Provide lockable metal folding gates for entrance to Equipment room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well.	Nos	2		
12.3	Provide lockable metal gates for entrance to waste yard as specified in the drawing. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the frame and properly fixing the door to the fence.	Nos	1		
	<i>Timber Doors</i>				

12.4	Provide a lockable timber door of dimensions 1000mm x 1000mm with double door frames and fixed timber louvers for the ground water pump room hut. Rates shall include all materials, hinges and fixings.	Nos	1		
13	Other Works				
	<i>Collection Bay Area</i>				
13.1	Provide a 5" vinyl roof gutter with 2" x 3" downspout. Rates shall include all materials and fastenings.	LS	1		
13.2	Provide 12" x 12" ceramic tiles for the top and the sides of the concrete slab for sorting area platform	m2	9.80		
	<i>Perimeter Wall</i>				
13.3	50 x 50 PVC coated mesh. Rate shall include properly securing the mesh to G.I steel frame	m2	189.21		
	<i>Compost Slab</i>				
13.4	Provide HDPE membrane below compost slab, Concrete screed and collection bay floor slab	m2	192.67		
13.5	Provide expansion joint in slab and fill the joint with polyethylene joint filler form and silicone as shown on drawing	m	24.00		
13.6	Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles.	LS	2		
13.7	Connection of compost slab drain to primary tank of the leachate tank including ball valve	LS	1		
14	Demobilisation Works				
14.1	Setup sign boards on site as specified	LS	1		
14.2	Clean up site upon completion of works	LS	1		
14.3	Demobilization	LS	1		

TOTAL

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CONSTRUCTION OF WASTEMANAGEMENT CENTRE – GDH. RATHAFANDHOO
Bill of Quantities
SUMMARY SHEET

Bill No	Item	Amount
1	Preliminaries	
2	Site clearance/Demolition/Removal	
3	Earth works	
4	Concrete works	
5	Structural steel works	
6	Masonry works	
7	Plastering works	
8	Painting works	
9	Roofing works	
10	Electrical works	
11	Plumbing works	
12	Doors and windows	
13	Other Works	
14	Demobilisation	
	Sub Total	
	GST 6%	
	GRAND TOTAL	

تَعْرِيفُ 1 : دَسْتُوْرٌ مَرْجُوْعٌ مَشُوْرٌ اِرْتِيَجُ اِسْوَجٌ مُرْجِعٌ مَشُوْرٌ

سَوَجٌ مَرْجُوْعٌ / مَرْجُوْعٌ مَشُوْرٌ اِسْوَجٌ اِرْتِيَجُ مَشُوْرٌ

خُتْرُوغُو 2 : دَسُوْرَا مَهِوْر دَا دَا دَسُوْرُو

1. All steel pipes obtained for the work should be new pipes and free from rust.
2. Thickness of pipes should not be less than 2.5mm

Electrical works

1. All materials used for electrical wiring should comply with MEA standards.

Roofing works

1. All materials used for roofing work should be newly purchased for the project.
2. All screws or bolts used for roof fixing should be G.I or Zinc finish screws.

تصویر 4 : سولہ ماہہ لائبریری سہولتوں کے گھر





