



Ministry of Environment
Male', Republic of Maldives.

މިނިސްޓްރީ އޮފް ޕްރޮޓެކްޝަން ޕްލާނެޓް ޕްރޮޓެކްޝަން
މާލެ، ރިޕުބްލިކް އޮފް މާލްދީވުސް

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(IUL)438-WMPC/438/2019/347

28/11/2019

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<p>16.1.3 ٢٠١٩ س. ٢٧ ٥</p>	
<p>16.1.4 ٢٠١٩ س. ٢٧ ٥ (٤.١، ٤.٢، ٤.٣، ٤.٤ ٢٠١٩ س. ٢٧ ٥)</p>	
<p>16.1.5 ٢٠١٩ س. ٢٧ ٥ (٤.١، ٤.٢، ٤.٣، ٤.٤ ٢٠١٩ س. ٢٧ ٥)</p>	
<p>16.1.6 ٢٠١٩ س. ٢٧ ٥ (٢٠١٩ س. ٢٧ ٥)</p>	
<p>16.1.7 ٢٠١٩ س. ٢٧ ٥ (٦٠٠٠.٠٠ ٢٠١٩ س. ٢٧ ٥)</p>	
<p>16.2 ٢٠١٩ س. ٢٧ ٥</p>	
<p>16.2.1 ٢٠١٩ س. ٢٧ ٥ (٢٠١٩ س. ٢٧ ٥)</p>	
<p>16.2.2 ٢٠١٩ س. ٢٧ ٥</p>	
<p>(أ) ٢٠١٩ س. ٢٧ ٥</p>	
<p>(ب) ٢٠١٩ س. ٢٧ ٥ 1. Profit and Loss Statement (Income Statement) ٢٠١٩ س. ٢٧ ٥ 2. Balance Sheet ٢٠١٩ س. ٢٧ ٥</p>	
<p>(ج) ٢٠١٩ س. ٢٧ ٥ 1. ٢٠١٩ س. ٢٧ ٥ 2. ٢٠١٩ س. ٢٧ ٥</p>	
<p>16.2.3 ٢٠١٩ س. ٢٧ ٥</p>	

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(ب) ٢٠١٩ س. ٢٧ ١٠	
١٧.١	١٧. ٢٠١٩ س. ٢٧ ١٠ ٢٠١٩ س. ٢٧ ١٠
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١٧.٣	١٧.٣ ٢٠١٩ س. ٢٧ ١٠
١٧.٤	١٧.٤ ٢٠١٩ س. ٢٧ ١٠
١٨.١	١٨. ٢٠١٩ س. ٢٧ ١٠
١٨.٢	١٨.٢ ٢٠١٩ س. ٢٧ ١٠
١٨.٣	١٨.٣ ٢٠١٩ س. ٢٧ ١٠
١٩.١	١٩. ٢٠١٩ س. ٢٧ ١٠
(ج) ٢٠١٩ س. ٢٧ ١٠	
٢٠.١	٢٠. ٢٠١٩ س. ٢٧ ١٠
٢٠.٢	٢٠.٢ ٢٠١٩ س. ٢٧ ١٠
٢٠.٣	٢٠.٣ ٢٠١٩ س. ٢٧ ١٠
٢١.١	٢١. ٢٠١٩ س. ٢٧ ١٠
٢١.٢	٢١.٢ ٢٠١٩ س. ٢٧ ١٠
٢٢.١	٢٢. ٢٠١٩ س. ٢٧ ١٠
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14	١٤ - حصو
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ސަބަބު 4.1: ގަނޑު ގަނޑުގެ ބިނާއިން

CONSTRUCTION OF WASTE MANAGEMENT CENTRE - GDH. RATHAFANDHOO
Bill of Quantities

No	Item	Unit	Quantity	Rate	Amount
1	Preliminaries				
1.1	Mobilization to site	LS	1		-
1.2	Site management cost including set up of tempory services for contractor's services as maybe necessary	LS	1		-
2	Site Clearance and Demolition/Removal				
2.1	Allow for all site clean up work including relocation of existing waste to a temporary location identified by island council	LS	1		-
3	Concrete works				
	<i>Collection Bay Area</i>				
3.1	Concrete column for sorting area platform cast according to drawing.	m3	0.612		-
3.2	Provide 150mm thick reinforced concrete slab for sorting area platform cast according to drawing. Reinforcements shall be as shown on drawing.	m3	1.2		-
4	Painting works				
	<i>Collection Bay Area Walls</i>				
4.1	Apply emulsion paint coating on 3500mm high walls for Collection Bay Outer Walls	m2	271.56		-
4.2	Apply emulsion paint coating on 1500mm high walls for Collection Bay section separation	m2	26.10		-
	<i>Collection Bay Area Steel Members</i>				
4.3	Apply emulsion paint coating on G.I columns of collection bay	LS	1		-
4.3	Apply emulsion paint coating on the roof trusses	LS	1		-
4.5	Apply paint coating on the metal sliding door of the Hazardous waste storage room	LS	1		-
4.6	Apply paint coating on the two metal folding doors of the equipment room	LS	2		-
	<i>Perimeter Wall</i>				

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5.6	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		-
5.7	Provide weather proof switch for all lights	LS	1		-
5.8	Provide 25 sqmm 4 core power supply cable from nearest distribution box to waste yard distribution board	m	150		-
	<i>Other</i>				
5.9	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		-
5.10	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		-
5.12	Provide well water pump. Rate shall include its fixing inside the Pump House	Nos	1		-
6	Plumbing works				
6.1	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		-
6.2	Provide outlet pipes as shown on drawing. Rate shall include connection to pump, bends, fittings and others as maybe necessary.	LS	1		-
6.3	Provide PVC taps at ends of outlet pipes.	Nos	2		-
6.4	Supply 25mm diameter flexible hose	m	25.0		-
7	Doors and windows				
	<i>Metal Doors</i>				
7.1	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		-

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7.2	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	-
7.3	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>				
7.4	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	-
8 Other Works				
<i>Collection Bay Area</i>				
8.1	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>				
8.2	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>				
8.3	Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles.	LS	2	-
8.4	Connection of compost slab drain to primary tank of the leachate tank including ball valve	LS	1	-
8.5	Adjustment to screed at collection bay area to achieve the required slop and providing drain as per drawing			
8.6	Plastering touchup works	LS	1	
8.7	Providing over flow from main to secondary leachate tank as per drawing	LS	1	
9 Demobilisation Works				
9.1	Setup sign boards on site as specified	LS	1	-
9.2	Clean up site upon completion of works	LS	1	-
9.3	Demobilization	LS	1	-

Total

-

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GST	-
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Grand Total	-
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CONSTRUCTION OF WASTEMANAGEMENT CENTRE - GDH. RATHAFANDHOO
Bill of Quantities
SUMMARY SHEET

Bill No	Item	Amount
1	Preliminaries	-
2	Siteclearance/Demolition/Removal	-
3	Concrete works	-
4	Painting works	-
5	Electrical works	-
6	Plumbing works	-
7	Doors and windows	-
8	Other Works	-
9	Demobilisation	-
	Sub Total	-
	GST 6%	-
	GRAND TOTAL	-

Work Schedule

Works	Duration	Week																		Start Date	End Date	
		18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
Preliminaries																						
clearance/Demolition/Removal Site																						
works Concrete																						
works Painting																						
works Electrical																						
works Plumbing																						
and windows Doors																						
Works Other																						
Demobilisation																						

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4.6: شروط ومواصفات العمل

Working Site

The site should be kept clean during the construction work period and should be thoroughly cleaned once the works are completed. Works should be carried out on site in a safe manner to all the workers on site and the people living in the vicinity of site. Disturbance to the neighborhood should be kept to a minimum. Electricity and water supply to the site, during construction period, should be provided by the contractor

Concrete

Cement conforming to BS12 standards should be used for all concrete, masonry and plastering works. The cement intended for use should be fresh and should not have any traces of hardened cement in the bag.

1. All concrete works should be done using one brand of cement
2. Sand and aggregate used for concrete works should be well graded.
3. Concrete should be mixed in the ratio 1:2:3 which are 1 part cement, 2 parts sand and 3 parts aggregate.
4. All foundations should be cast on a lean concrete layer. The lean concrete should be placed on well compacted ground.
5. Concrete should be mixed using a concrete mixer. Concrete should not be mixed by hand. When pouring concrete into the formwork, the mix should be compacted using a mechanical vibrator.
6. Aggregate used for concrete works should not be larger than 20mm.
7. Sand and aggregate used for concrete works should be clear from dust, mud and other debris.
8. All reinforcement bars used for the concrete works should be free from rust and grease that could weaken the bonding between the reinforcement bar and the concrete. Care should be taken to use continuous bars rather than short segments joined by laps.

Masonry Works

1. All masonry work should be done using Cement confirming to BS12 standards.
2. Masonry blocks should be made from imported sand or local white sand sourced from a permitted sand borrow area. The sand should be free from organic matter and other debris.
3. Masonry blocks should be made from mortar mixed at 1:5 ratio with 1 part cement to 5 part sand.
4. Average size of sand particles should not exceed 5mm.

Plastering Works

1. All plastering work should be done using Cement confirming to BS12 standards.
2. Plaster mix should be made from imported or local sand white sand sourced from a permitted borrow area. The sand should be free from organic matter and other debris.
3. Plaster mix should be made by mixing Cement and Sand at a ratio of 1:3 with 1 part Cement to 3 part Sand.
4. Average size of sand particles should not exceed 5mm.

Structural Steel work

