

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



Ministry of Environment

Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ސަރުކާރުގެ ނިންމުމެވެ.
މަތީ ބަޔާންކުރި ގޮތެވެ.

މިއަހަރުގެ ސަރުކާރުގެ ބަޔާނުގައި ބަޔާންކުރި ގޮތެވެ.
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މިއަހަރުގެ ސަރުކާރުގެ ބަޔާނުގައި ބަޔާންކުރި ގޮތެވެ.

September 4, 2019

<p>ግንባታ ስራ 7 (ሰነድ) የሚያስፈልግ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ 13-K/CIR/2018/01 ሰነድ ለማግኘት ይጠቀሙ PR-14 ሰነድ ለማግኘት ይጠቀሙ</p>		
<p>ግንባታ ስራ 17.09 ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ</p>	32.4	
<p>ግንባታ ስራ 17.11 ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ 13-K/CIR/2018/01 ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ PR-16 ሰነድ ለማግኘት ይጠቀሙ</p>	33.1	<p>33. ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ ሰነድ ለማግኘት ይጠቀሙ</p>

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ސަބަބު 4 - ފަސޭހަވާ ސަރުކާރުގެ ސަރުކާރުގެ

ސަބަބު 4.1: ފަސޭހަވާ ސަރުކާރުގެ ސަރުކާރުގެ

CONSTRUCTION OF WASTE MANAGEMENT CENTRE - GA. NILANDHOO
Bill of Quantities

No	Item	Unit	Quantity	Rate	Amount
1	Preliminaries				
1.1	Mobilization to site	LS	1.00		
1.2	Site management cost including set up of temporary services for contractor's services as maybe necessary	LS	1.00		
2	Site Clearance and Demolition/Removal				
2.1	All site clean up work including relocation of existing waste to a temporary location identified by island council	LS	-		
	<i>Demolition</i>		-		
2.2	Concrete column foundation 450x450mm of height 400mm	LS	20.00		
2.3	2000mm high masonry walls	m	-		
	<i>Removal</i>		-		
2.4	G.I Pipe fence of height 2000mm with 50mm Mesh as shown in the drawing	m	60.00		
			-		
3	Earth works				
	<i>Allow for all excavation work for foundations as follows</i>		-		
3.1	Collection bay foundation	m3	4.89		
3.2	Perimeter wall	m3	8.35		
3.4	Flood light pole	m3	0.13		
3.5	Ground levelling works for ground slab works	m2	219.76		

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3.6	Leachate collection tank	m3	6.00		
3.7	Setting up a ground water well in the location shown	LS	1.00		
			-		
4	Concrete works		-		
	<i>Collection Bay Area</i>		-		
4.1	Provide 100mm concrete floor screed for collection bay area according to the slope shown in drawing with a drain at the Sorting Area. Reinforcement for the slab shall be R6@150 BW single layer	m3	9.98		
4.2	Wall Footing of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing	m3	2.99		
4.3	Middle Beams of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	0.90		
4.4	Lintel for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	0.90		
4.5	Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.	m3	1.32		
4.6	Concrete column for sorting area platform cast according to drawing.	m3	0.61		
4.7	Provide 150mm thick reinforced concrete slab for sorting area platform cast according to drawing. Reinforcements shall be as shown on drawing.	m3	0.72		
	<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		

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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	319.12		
7.2	25mm plastering on 1500mm high walls for Collection Bay section separation	m2	51.30		
	<i>Perimeter Wall</i>				
7.3	25mm plastering on 1000mm wall for perimeter wall	m2	171.83		
	<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	319.12		
8.2	Apply emulsion paint coating on 1500mm high walls for Collection Bay section separation	m2	51.30		
	<i>Collection Bay Area Steel Members</i>				
8.3	Apply emulsion paint coating on G.I columns of collection bay	LS	1.00		
8.4	Apply emulsion paint coating on the roof trusses	LS	1.00		
8.5	Apply paint coating on the metal sliding door of the Hazardous waste storage room	LS	1.00		
8.6	Apply paint coating on the two metal folding doors of the equipment room	LS	2.00		
	<i>Perimeter Wall</i>				
8.7	Apply emulsion paint coating on 1000mm high wall for perimeter fence	m2	171.83		
	<i>Perimeter Wall Steel members</i>				
8.7	Apply emulsion paint coating on G.I members of perimeter fence	LS	1.00		
8.9	Apply emulsion paint coating on G.I members and MS Sheets of gates	LS	1.00		
	<i>Other</i>				
8.10	Apply paint coating on flood light pole	LS	2.00		
8.11	Apply emulsion paint coating on the removable timber covers of the leachate collection tanks	LS	2.00		

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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	1.00		
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	1.00		
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	1.00		
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	2.00		
10.7	Provide weather proof switch for all lights	LS	1.00		
10.8	Provide 25 sqmm 4 core power supply cable from nearest distribution box to waste yard distribution board	m	150.00		
	<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	1.00		
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	2.00		
10.11	Provide well water pump. Rate shall include its fixing inside the Pump House	Nos	1.00		
			-		
11	Plumbing works		-		

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نمبر: 4.2: سروس مینجمنٹ سروسز پرائیویٹ لمیٹڈ

**CONSTRUCTION OF WASTEMANAGEMENT CENTRE
GA. NILANDHOO
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	

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 Earth																						
works Concrete																						
steel works Structural																						
works Masonary																						
works Plastering																						
works Painting																						
works Roofing																						
works Electrical																						
works Plumbing																						
and windows Doors																						
Works Other																						
Demobilisation																						



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ސަލާސަތު 4.6: ސަލާސަތު 4.6 ގެ ސަލާސަތު 4.6 ގެ ސަލާސަތު 4.6

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.

