

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



Ministry of Environment

Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގަވާއިދުގެ ދަށުން
އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގަވާއިދުގެ ދަށުން
އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ.

އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ

އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ، ސަރުކާރުގެ ފޮޓޯ، ސަރުކާރުގެ ފޮޓޯ، ސަރުކާރުގެ ފޮޓޯ، ސަރުކާރުގެ ފޮޓޯ
އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ: (IUL)438-WMPC/438/2019/357

28/11/2019

އިދުބަދާކުރުމަށް ފޮނުވާ ސަރުކާރުގެ ފޮޓޯ: ސަރުކާރުގެ ފޮޓޯ ގައި ބަޔާންކުރި ގަވާއިދުގެ ދަށުން

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የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	30
የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	30

ሁለተኛው ደረጃ - የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	
(ሀ) የሰነድ ዓይነት	
1. የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	1.1 ግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
2. የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	2.1 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	2.1.1 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	2.1.2 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	2.1.3 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	2.1.4 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	2.2 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
3. የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ	3.1 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	3.2 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	3.3 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ
	3.3.1 የግንባታ ስራ ለማስፈጸም የሚያስፈልጉትን ሰነድ ለማቅረብ ይጠቀሙ

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<p>8.2. 9. 2019 11 28</p>	<p>9. 2019 11 28</p>
<p>9.1. 9. 2019 11 28</p>	<p>9. 2019 11 28</p>
<p>9.2. 9. 2019 11 28</p>	<p>9. 2019 11 28</p>
<p>9.3. 9. 2019 11 28</p>	<p>9. 2019 11 28</p>
<p>10.1. 10. 2019 11 28</p>	<p>10. 2019 11 28</p>
<p>10.2. 10. 2019 11 28</p>	<p>10. 2019 11 28</p>
<p>(س) 9. 2019 11 28</p>	
<p>11.1. 11. 2019 11 28</p>	<p>11. 2019 11 28</p>
<p>12.1. 12. 2019 11 28</p>	<p>12. 2019 11 28</p>
<p>13.1. 13. 2019 11 28</p>	<p>13. 2019 11 28</p>
<p>13.2. 13. 2019 11 28</p>	<p>13. 2019 11 28</p>
<p>14.1. 14. 2019 11 28</p>	<p>14. 2019 11 28</p>
<p>15.1. 15. 2019 11 28</p>	<p>15. 2019 11 28</p>
<p>16.1. 16. 2019 11 28</p>	<p>16. 2019 11 28</p>
<p>16.1.1. 16. 2019 11 28</p>	<p>16. 2019 11 28</p>
<p>16.1.2. 16. 2019 11 28</p>	<p>16. 2019 11 28</p>

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		(ב) חוקים נדרשים
17.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	17. חוקים נדרשים ללימודי התנ"ך
17.2	סוגי התנ"ך הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
17.3	סוגי התנ"ך הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
17.4	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
18.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	18. חוקים נדרשים ללימודי התנ"ך
18.2	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
18.3	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
19.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	19. חוקים נדרשים ללימודי התנ"ך
(ג) חוקים נדרשים ללימודי התנ"ך		
20.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	20. חוקים נדרשים ללימודי התנ"ך
20.2	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
20.3	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
21.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	21. חוקים נדרשים ללימודי התנ"ך
21.2	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	
22.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	22. חוקים נדרשים ללימודי התנ"ך
22.1.1	חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך, חוקים הנדרשים ללימודי התנ"ך.	

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22.1.2		הוראה
22.1.3		הוראה מטריאליסטית
22.1.1	23.1	23. הוראה הוראה
24.1	24.1	24. הוראה הוראה
25.1	25.1	25. הוראה הוראה
26.1	26.1	26. הוראה הוראה
27.1	27.1	27. הוראה הוראה
27.2	27.2	הוראה
(א) תוכנית הלימודים		
28.1	28.1	28. הוראה הוראה
28.2	28.2	הוראה
28.3	28.3	הוראה
28.4	28.4	הוראה

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....Name or Letterhead of The Business Entity: (Sole Proprietorship / Partnership / Corporative Society / etc).....

**Income Statement
For the Year Ended December 31, 20..**

	MVR	MVR
Revenues:		
Category 1	-	
Category 2	-	
<i>*add more categories if required</i>	-	
Total Revenues		-
Expenses:		
Category 1	-	
Category 2	-	
<i>*add more categories if required</i>	-	
Total Expenses		-
NET INCOME (Total Revenues subtracted from Total Expenses)		-

Name of the Authorized Signatory:

Authorized Signature:

Note: This Income Statement must be completed and submitted by Bidders except the Companies registered under the Companies Act (10/96). Companies are required to submit the Financial Statements as indicated in part 16.2.2 of this document.

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අංක 4 - වැටුප් ගණන

අංක 4.1: වැටුප් ගණන

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		
1.2	Site management cost including set up of temporary services for contractor's services as maybe necessary	LS	1		
2	Site Clearance and Demolition/Removal				
2.1	All site clean up work	LS	1		
	<i>Demolition</i>				
2.2	demolition of slab a top collection bay area bay 3 walls	LS	1		
3	Earth works				
	<i>Allow for all excavation work for foundations as follows</i>				
3.1	Collection bay column foundation	m3	0.17		
4	Concrete works				
	<i>Collection Bay Area</i>				
4.1	Concrete column for sorting area platform cast according to drawing.	m3	0.612		
4.2	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>				
	<i>Other</i>				
4.3	Foundation for flood light pole	m3	0.29		
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 cutting and removal of portion of wall, demolition of floor slab as required, reinstating the aforementioned and all fixings at both ends of the pipe for necessary connections as shown on drawing	Nos	4.00		

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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	8.15		
	<i>Perimeter Wall</i>				
5.3	Provide 75mm G.I pipe as flood light fixing poles. Rate shall include installation charges as shown on drawing.	Nos	2		
6	Painting works				
	<i>Collection Bay Area Walls</i>				
6.1	Apply emulsion paint coating on 3500mm high walls for Collection Bay Outer Walls	m2	319.12		
6.2	Apply emulsion paint coating on 1500mm high walls for Collection Bay section separation	m2	51.30		
	<i>Collection Bay Area Steel Members</i>				
6.3	Apply emulsion paint coating on G.I columns of collection bay	LS	1		
6.4	Apply emulsion paint coating on the roof trusses	LS	1		
6.5	Apply paint coating on the metal sliding door of the Hazardous waste storage room	LS	1		
6.6	Apply paint coating on the two metal folding doors of the equipment room	LS	2		
	<i>Perimeter Wall</i>				
6.7	Apply emulsion paint coating on 1000mm high wall for perimeter fence	m2	171.83		
	<i>Perimeter Wall Steel members</i>				
6.7	Apply emulsion paint coating on G.I members of perimeter fence	LS	1		
6.9	Apply emulsion paint coating on G.I members and MS Sheets of gates	LS	1		
	<i>Other</i>				
6.10	Apply paint coating on flood light pole	LS	2		
6.11	Apply emulsion paint coating on the removable timber covers of the leachate collection tanks	LS	2		
6.12	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>				
6.13	Apply emulsion paint coating on G.I columns of existing structure	LS	1		
6.14	Apply emulsion paint coating on 2m high walls of the existing structure	m2	58.10		
7	Roofing works				
	<i>Collection Bay Area</i>				

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7.1	Dismantling and reinstating of roof as per drawing to replace roof timber structure.	m2	111.36		
8	Electrical works				
	<i>Collection Bay Area</i>				
8.1	Provide 3 phase 13 A power sockets in equipment room. Rate shall include connection to circuit breaker and all necessary accessories	Nos	4		
8.2	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		
8.3	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		
8.4	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		
8.5	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		
8.6	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		
8.7	Provide weather proof switch for all lights	LS	1		
8.8	Provide 25 sqmm 4 core power supply cable from nearest distribution box to waste yard distribution board	m	150		
	<i>Other</i>				
8.9	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		

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8.10	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		
8.11	Provide well water pump. Rate shall include its fixing inside the Pump House	Nos	1		
9	Plumbing works				
9.1	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		
9.2	Provide outlet pipes as shown on drawing. Rate shall include connection to pump, bends, fittings and others as maybe necessary.	LS	1		
9.3	Provide PVC taps at ends of outlet pipes.	Nos	2		
9.4	Supply 25mm diameter flexible hose	m	25.0		
10	Doors and windows				
	<i>Metal Doors</i>				
10.1	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		
10.2	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		
10.3	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	2		
	<i>Timber Doors</i>				
10.4	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		
11	Other Works				
	<i>Collection Bay Area</i>				

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11.1	Provide a 5" vinyl roof gutter with 2" x 3" downspout. Rates shall include all materials and fastenings.	LS	1		
11.2	Provide 12" x 12" ceramic tiles for the top and the sides of the concrete slab for sorting area platform	m2	6.60		
	<i>Perimeter Wall</i>				
11.3	50 x 50 PVC coated mesh. Rate shall include properly securing the mesh to G.I steel frame	m2	166.95		
	<i>Compost Slab</i>				
11.4	Provide HDPE membrane below compost slab, Concrete screed and collection bay floor slab	m2	219.76		
11.5	Provide expansion joint in slab and fill the joint with polyethylene joint filler form and silicone as shown on drawing	m	24.00		
11.6	Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles.	LS	2		
11.7	Connection of compost slab drain to primary tank of the leachate tank including ball valve	LS	1		
11.8	Leachate collection tank overflow from primary to secondary tank as shown.	Nos	1		
12	Demobilisation Works				
12.1	Setup sign boards on site as specified	LS	1		
12.2	Clean up site upon completion of works	LS	1		
12.3	Demobilization	LS	1		

TOTAL

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شمارہ: 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	

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4.3: اسٹیٹ کیسز کی اسٹیٹس رپورٹ

(اسٹیٹ کیسز کی اسٹیٹس رپورٹ)

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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مادة 4.6: شروط 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.

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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

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.