



Ministry of Environment and Energy  
Male', Republic of Maldives



## **TERMS OF REFERENCE**

*for*

# **SUPPLY AND DELIVERY OF DUSTBINS, COMPOSTING EQUIPMENT & A GENERATOR TO A.DH. MAAMIGILI**

*Funded by*

*The Public Sector Investment Program*

*of the Government of the Republic of Maldives*

REFERENCE TO ADVERTISEMENT NUMBER: (IUL)438-WMPC/438/2017/169

13 August 2017

**Issued By:**

Waste Management and Pollution Control Department  
Ministry of Environment and Energy  
K.Male', Republic of Maldives

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# 56TSUPPLY AND DELIVERY OF DUSTBINS, COMPOSTING EQUIPMENT & A GENERATOR TO A.DH. MAAMIGILI

## *1 INTRODUCTION*

Ministry of Environment and Energy (MEE) on behalf of the Government of Maldives is seeking the assistance of a qualified and competent Bidder for the **56T Supply and Delivery of Dustbins, Composting Equipment & a Generator to A.Dh. Maamigili**.

## *2 BACKGROUND*

The Republic of Maldives is a small island nation that is now well known across the world for its vulnerability to environmental impacts. Its population of about 300,000 people is thinly dispersed over 198 islands out of a total of 1192 islands, the remaining being uninhabited.

The largest percentage of the population on a single island is found at the capital city Male', with over 133,000 people living in a small area of about 6 square kilometers. This accounts for almost half of the total population of the entire country. The plans for building the regional Waste Management Centre at K. Thilafushi aims to provide a total solution to the problems in waste for the islands of Kaafu atoll, North & South Ari Atolls as well as Felidhu atoll. This means, the planned Regional Waste Management Centre at K. Thilafushi will manage the recyclable and non-biodegradable waste of more than 50% of the entire population of the country.

## *3 GOALS AND OBJECTIVES*

Provide Dustbins, Composting equipment & a Generator to the Island Waste Management Centre at South Ari Atoll Maamigili.

## *4 SCOPE OF WORKS*

The tasks to be undertaken by the Individual under this Terms of Reference are to be undertaken in close collaboration with Waste Management and Pollution Control Department of the Ministry of Environment and Energy, and include but are not necessarily limited to, the **56T Supply and Delivery of Dustbins, Composting Equipment & a Generator to A.Dh. Maamigili** according to the specifications provided in this TOR.

## *5 DOCUMENTS TO BE SUBMITTED*

To undertake the assignment the interested party should provide the documents mentioned in the advertisement for this Bid.

## 6 EVALUATION CRITERIA

### 6.1 TECHNICAL EVALUATION

- Technical Evaluation is a preliminary evaluation done based on the Technical Proposal before moving on to the Financial Evaluation
- The Technical Proposal provided by the bidder will be compared to the specifications provided in this TOR and the Evaluation will be carried out as below:
  - The Scope of this Project has Two main deliverables;
    - 7.1 Dustbins & Composting equipment to be delivered to Adh. Maamigili
    - 7.2 Generator to be delivered to ADh. Maamigili
  - Each equipment/item under the Main Deliverable will be evaluated separately to measure the responsiveness of the Bidder under each of the Equipments/Items.
  - Sub-requirements under the Equipments/Items is divided into Two Categories; (A) Principal Requirements and (B) Additional Requirements
  - Each sub-requirement has a value of 1 mark each, and will be calculated on *pro-rata* basis to evaluate the responsiveness under each Equipment/Item.
  - The Technical Evaluator may measure the significance of the variation from the Required Specification, and give the 1 mark where the variation is not substantial or where the variation is technically insignificant.
  - To be considered technically qualified the Bidder must:
    - Comply 100% of the Principal Requirements (A) separately under each Equipment/Item
    - And comply at least 60% under Additional Requirements (B) separately under each Equipment/Item.

### 6.2 FINANCIAL EVALUATION

- - All proposals that are considered qualified by the Technical Evaluation will be subject to the Financial Evaluation
- Point system for the evaluation is:
  - 6.2.1 *Price of Quotation for Total Works* [60]
  - 6.2.2 *Propose duration of Completion of Assignment* [20]
  - 6.2.3 *Experience* [20]
    - 6.2.3.1 *Experience in specific delivery and installation works* [10]
    - 6.2.3.2 *Experience in general delivery and installation works* [10]

**Total Weight: 100%**

## 7 DELIVERABLES


#	Type of Equipment	Quantity of Equipment Required
<b>7.1 Dustbins &amp; Composting equipment to be Delivered to Adh. Maamigili</b>		
1	Wheelie Bins in Blue Color (120L)	24
2	Wheelie Bins in Green Color (120L)	24
3	Wheelie Bins in Blue Color (240L)	23
4	Wheelie Bins in Green Color (240L)	23
5	Wheelie Bins in Blue Color (660L)	10
6	Wheelie Bins in Green Color (660L)	15
7	Brand New Chainsaw	1
8	Wheelbarrow	10
9	Heavy Duty Gumboots	12
10	Heavy Duty Hand Safety Gloves	12
11	Long Handled Flathead Steel Rake	5
12	Long Handled Cultivator	5
13	Garden Hoe	5
14	19" Round Point Shovel	5
15	48" Square Point Shovel	5
16	19" D-Handle Square Point Shovel	2
17	20L Bucket	5
18	40L Bucket	3
19	Polypropylene Surgical Mask Box (50pcs)	5
20	Weighing Bench Scale	1
<b>7.2 Generator to be delivered to ADh. Maamigili</b>		
1	25kVA 4 Pole 3 Phase Generator	1

## 8 REQUIREMENTS - SPECIFICATION OF EQUIPMENT

1. Chainsaw
2. Wheelbarrow
3. Heavy Duty Gumboots
4. Heavy Duty Hand Safety Gloves
5. Long Handled Flathead Steel Rake
6. Long Handled Cultivator
7. Garden Hoe
8. 19" Round Point Shovel
9. 48" Square Point Shovel
10. 19" D-Handle Square Point Shovel
11. 20L Bucket
12. 40L Bucket
13. Polypropylene Surgical Mask Box (50pcs)
14. Weighing Bench Scale
15. Wheelie Bins (120L, 240L and 660L)
16. 25kVA 4 Pole 3 Phase Generator

<b>1</b>	<b>Chainsaw</b>		<b>Category (A) or (B)</b>
1.1	Cylinder displacement	3.9 cu. in. / 64 cc	B
1.2	2011 EPA Compliant	YES	B
1.3	Power	4.7 hp / 3.5 kW	A
1.4	Max RPM	13,500	B
1.5	Fuel tank volume	25.4 fl. oz.	B
1.6	Oil tank volume	14 oz.	B
1.7	Weight (powerhead only)	13.9 lbs.	A
1.8	Chain Pitch	3/8", .050 (72VX)	B
1.9	Recommended Bar lengths	16" – 28"	B
1.10	Operating Manual	Operating manual for safe operations of the machine under normal operations. The operations manual must include trouble shooting and remedy guide table	A
1.11	Maintenance Manual	Maintenance manual covering routine service requirements for machine and motor, and service overhaul of machine. The maintenance manual must include a labelled wiring and component diagram	A
1.12	Language of Documents	All literature in the English language	A
1.13	Warranty	Each unit supplied to carry a statement of warranty. Minimum <b>One year warranty</b> on motor and mechanical parts.	A
	*Similar to that of MAKITA or BOSCH		
<b>2</b>	<b>Wheelbarrow</b>		
2.1	Bin Material	Moulded HDPE	B
2.2	Capacity	6 cubic feet	B
2.3	Tires	Flat-Free Pneumatic Tires	B
2.4	Wheel Size	16inch	B
2.5	Wheel Material	Rubber	A
2.6	Warranty	Each unit supplied to carry a statement of warranty. Minimum <b>One year warranty</b>	A
<b>3</b>	<b>Heavy Duty Gumboots</b>		
3.1	Size		B
3.2	Height	12"	B
3.3	Color	Black	B
3.4	Material	Certified Polyvinyl Chloride (PVC) or Rubber materials	A
3.5	Resistance	Alkali and acid resistant	B
3.6	Soles	Anti-Skid PVC Soles	B
<b>4</b>	<b>Heavy Duty Hand Safety Gloves</b>		

4.1	Material	Rubber or Latex	A
4.2	Length	18" (elbow length)	B
4.3	Thickness	0.040'	B
4.4	Size		B
4.5	Color	Black	B
4.6	Resistance	Chemical Resistant	A
<b>5</b>	<b>Long Handled Flathead Steel Rake</b>		
5.1	Handle Length	54 inches	B
5.2	Tine Length	3.5 inches	B
5.3	Number of Tines	18	B
5.4	Handle Material	Steel	B
<b>6</b>	<b>Long Handled Cultivator</b>		
6.1	Handle Length	54 inches	B
6.2	Tine Length	3.75 inches	B
6.3	Number of Tines	6	B
6.4	Handle Material	Steel	B
<b>7</b>	<b>Garden Hoe</b>		
7.1	Length	57 inches	B
7.2	Handle Material	Steel	B
<b>8</b>	<b>19" Round Point Shovel</b>		
8.1	Blade Length	11 inches	B
8.2	Handle Length	19 inches	B
8.3	Blade Material	Steel	B
8.4	Handle Material	Steel	B
<b>9</b>	<b>48" Square Point Shovel</b>		
9.1	Blade Length	11 inches	B
9.2	Handle Length	48 inches	B
9.3	Blade Material	Steel	B
9.4	Handle Material	Steel	B
<b>10</b>	<b>19" D-Handle Square Point Shovel</b>		
10.1	Blade Length	11 inches	B
10.2	Handle Length	19 inches	B
10.3	Blade Material	Steel	B
10.4	Handle Material	Steel	B
<b>11</b>	<b>20L Bucket</b>		
	High quality HDPE molded 20L white color bucket with steel handle		B
<b>12</b>	<b>40L Bucket</b>		

	High quality HDPE molded 40L white color bucket with steel handle	B
<b>13</b>	<b>Polypropylene Surgical Mask Box (50pcs)</b>	
13.1	Material	Polypropylene
13.2	Type	Tie on or elastic ear loops
<b>14</b>	<b>Weighing Bench Scale</b>	
14.1	Type	Bench Scale or Table Top Scale
14.2	Design	Portable
14.3	Capacity (kg)	50 to 75
14.4	Usage	Office
14.5	Accuracy	10gm
14.6	Functions	Auto Calibration and Auto Off Function
14.7	Display	Large Bright LED Display
14.8	Warranty	Each unit supplied to carry a statement of warranty. Minimum <b>One year warranty.</b>
<b>15</b>	<b>Wheelie Bins</b>	
15.1	High quality HDPE molded of 120L bin in green color complete with wheels, lids and fixtures and fittings;	A
15.2	High quality HDPE molded of 240L bin in green color complete with wheels, lids and fixtures and fittings;	A
15.3	High quality HDPE molded of 660L commercial bin in green color complete with wheels, lids and fixtures and fittings;	A
15.4	Details of Logo for 240L and 120L bins	For the 240 L & 120L bins the following "Saafu Raajje" logo must be printed in white and black color on the front side as shown below. The logo must be 9" square and centered so that the top edge is 5" from the top of the body of the bin
15.5	Details of Logo for 660L bin	For the 660L bin the following "Saafu Raajje" logo must be printed in white and black color as shown below. The logo must be 12" square and centered in the middle of the front side
		A
<b>16</b>	<b>25kVA 4 Pole 3 Phase Generator</b>	

	SPECIFICATION			REQUIRED	Category (A) or (B)
1	Country of Origin			Yes	A
2	Make			Yes	A
3	Model Number			Yes	A
<b>GENERATOR</b>					
4	Frequency : 50 Hz			Yes	A
5	Power Rating : Minimum 25kVA			Yes	A
6	Voltage : 380 - 400 V			Yes	A
8	Phase and Wire : 3-Phase, 4-Wire			Yes	A
9	No. of Poles : 4			Yes	B
10	Soundproofing : The noise level of the generator during operation should be below 70 decibels			Yes	B
<b>ENGINE</b>					
11	Type : 4-Stroke Diesel			Yes	A
12	Combustion System : Direct Injection			Yes	A
13	Cooling System : Radiator			Yes	A
14	Starting System : Electric			Yes	A
<b>OTHER REQUIREMENTS</b>					
16	Warranty : Minimum 1 Year			Yes	A
17	Installation : All electrical installations shall be in compliance with the regulations of Maldives Energy Authority.			Yes	A
18	Feeder panel with Minimum 5 feeders as follows Feeder Panel : 2 Nos x Three phase feeders 3 Nos x Single phase feeders (Details described below)			Yes	B
<b>BREAKER RATINGS FOR GENERATOR AND FEEDER PANEL (in accordance with the regulations of Maldives Energy Authority)</b>					
19	Equipment	Phase		I (3 phase)	Breaker Ratings Type



					(A)	
19.6	Genset (25kVA)	3phase		Refer to MEA regulations	Refer to MEA regulations	4p

## 9 ADDITIONAL REQUIREMENTS

- All equipment provided should be **brand new**.
- Proposal must include operations and maintenance manual in English
- Supplier must install the equipment and test run after the installation for a minimum of 3 hours.
- After sales service must be provided for free of charge during the warranty period
- If a range is given for the requirement, any value proposed equal to the limits of the range or within that range for any feature will be acceptable

## 10 GENERAL CONDITIONS

- Technical Evaluation will be done based on the specifications provided by the bidder before they are considered qualified for the Financial Evaluation.
- If the prices are not quoted individually for each equipment, the total proposed price will be considered to include all the equipment and their quantities and requirements specified in this document.
- If there are any questions about the described works, the questions should be e-mailed to the addresses listed in the advertisement before the clarification deadline given in the advertisement.

## 11 SUBMISSION OF BIDS

Interested parties should submit **all the documents described in this Terms of Reference** to the address specified in the advertisement on the time and date specified in the advertisement.