

GREATER MALE' ENVIRONMENTAL IMPROVEMENT AND WASTE MANAGEMENT PROJECT

Corrigendum & Addendum No. 01

S. No.	Clause reference & ITB	Corrigendum & Addendum						
1.	IFB	Invitation number (IUL)13-K/13/2019/10 revised to (IUL)13-K/13/2019/64						
2.	Paragraph 2, ITB 1.1 (page1)	<p>The number of the Invitation for Bids (IFB) is : (IUL)13-K/13/2019/10 revised to (IUL)13-K/13/2019/64</p> <p>Include the following in the Table under paragraph 2</p> <table border="1" data-bbox="443 639 1150 704"> <tr> <td data-bbox="443 639 558 704">Lot 6</td> <td data-bbox="558 639 968 704">Mobile municipal solid waste Baler</td> <td data-bbox="968 639 1024 704">1</td> <td data-bbox="1024 639 1150 704">8,800</td> </tr> </table>	Lot 6	Mobile municipal solid waste Baler	1	8,800		
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3.	Invitation for bids – paragraph 4.	<p>Include the following in the Table under paragraph 4</p> <table border="1" data-bbox="443 769 1444 1029"> <thead> <tr> <th data-bbox="443 769 1188 805">Requirements</th> <th data-bbox="1188 769 1444 805">Lot 6</th> </tr> </thead> <tbody> <tr> <td data-bbox="443 805 1188 899">a. Minimum average annual turnover calculated as total payments received by the Bidder for contracts completed or under execution over the last three (3) years.</td> <td data-bbox="1188 805 1444 899">USD 3,520,000</td> </tr> <tr> <td data-bbox="443 899 1188 1029">b. Successful completion as main supplier within the last three (3) years at least one (1) contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply)</td> <td data-bbox="1188 899 1444 1029">USD 704,000</td> </tr> </tbody> </table>	Requirements	Lot 6	a. Minimum average annual turnover calculated as total payments received by the Bidder for contracts completed or under execution over the last three (3) years.	USD 3,520,000	b. Successful completion as main supplier within the last three (3) years at least one (1) contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply)	USD 704,000
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4	Section 2, Part A. General, ITB 1.1 (page1)	<p>Revise as follows:</p> <p>The number and identification of lots comprising this ICB is: Six (6) –</p> <ul style="list-style-type: none"> Lot 1: Industrial and mobile waste shredder Lot 2: Industrial and mobile rotating sieving machine Lot 3: Bulldozer Lot 4: Excavators, wheel loader and waste handler Lot 5: Arm roll trucks, containers Lot 6: Mobile municipal solid waste Baler 						

5	Section 2, Part B. Preparation of Bids, ITB 7.1 (Page 1)	Revise as follows: Any clarifications to the project may be sent to the address in below on or before 1400 Hours Maldivian Time on Tuesday, 07th March 2019
6	Section 2, Part C. Preparation of Bids, ITB 21.1 (Page 1)	Revise as follows: The Bidder shall furnish a bid security in the amount of: USD 3,500 for Lot 1: Industrial and mobile waste shredder USD 2,500 for Lot 2: Industrial and mobile rotating sieving machine USD 4,000 for Lot 3: Bulldozer USD 11,500 for Lot 4: Excavators, wheel loader and waste handler USD 5,500 for Lot 5: Arm roll trucks, containers USD 8,800 for Lot 6: Mobile municipal solid waste Baler Bidders may participate in any Lot, or all Lots, or any combination of various Lots
7	Section 2, Part C. Preparation of Bids, ITB 21.3 (Page 3)	the bid security shall be, at the Bidder's option, in any of the following forms: (a) an unconditional bank guarantee (b) a cashier's or certified check The Bid Security shall be obtained from a Reputable Bank of an ADB Member Country.
8	Section 2, Part D. Preparation of Bids, ITB 24.1 (Page 4)	Revise as follows: The deadline for bid submission is: Date: <u>17th March 2019</u> Time: <u>10:00hrs</u>
9	Section 2, Part D. Preparation of Bids, ITB 27.1 (Page 4)	Revise as follows: The deadline for bid submission is: Date: <u>17th March 2019</u> Time: <u>10:00hrs</u>

10	Section 3, clause 2.3.1 Contractual experience (page 5)	<p>Revise requirements in table follows:</p> <p>Successful completion as main supplier within the last <i>three (3)</i> years at least <i>one (1)</i> contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply), and</p> <p>The value, of these contracts should be:</p> <p>USD 292,000 for Lot 1: Industrial and mobile waste shredder; USD 179,200 for Lot 2: Industrial and mobile rotating sieving machine; USD 312,000 for Lot 3: Bulldozer; USD 923,200 for Lot 4: Excavators, wheel loader and waste handler; USD 452,000 for Lot 5: Arm roll trucks, containers USD 704,000 for Lot 6: Mobile municipal solid waste Baler</p>
11	Section 3, Clause 2.4.2 Size of operation (average annual turnover) (page 7)	<p>Revise requirements in table follows:</p> <p>Minimum average annual turnover of \$ <i>as specified below</i>, calculated as total payments received by the Bidder for contracts completed or under execution over the last <i>three (3) years</i>.</p> <p>USD 1,460,000 for Lot 1: Industrial and mobile waste shredder; USD 896,000 for Lot 2: Industrial and mobile rotating sieving machine; USD 1,560,000 for Lot 3: Bulldozer; USD 4,616,000 for Lot 4: Excavators, wheel loader and waste handler; USD 2,260,000 for Lot 5: Arm roll trucks, containers USD 3,520,000 for Lot 6: Mobile municipal solid waste Baler</p>
12	Section 3, clause 2.4.3 Cash flow capacity (page 8)	<p>Revise requirements in table follows:</p> <p>Availability of or access to liquid assets, lines of credit, and other finances sufficient to meet cash flow requirement which is:</p> <p>USD 365,000 for Lot 1: Lot Name : Industrial and mobile waste shredder; USD 224,000 for Lot 2: Industrial and mobile rotating sieving machine; USD 390,000 for Lot 3: Bulldozer;</p>

		USD 1,154,000 for Lot 4: Excavators, wheel loader and waste handler USD 565,000 for Lot 5: Arm roll trucks, containers. USD 880,000 for Lot 6: Mobile municipal solid waste Baler																																																											
13	Section 6, 1. List of Goods and Related Services, (Page 3)	Include the following table: <table border="1"> <tr> <td colspan="5">Lot No.: 06</td> </tr> <tr> <td colspan="5">Lot Name: Baler</td> </tr> <tr> <th>Item No.</th> <th>Name of Goods or Related services</th> <th>Description</th> <th>Unit of Measurement</th> <th>Quantity</th> </tr> <tr> <td>06 a</td> <td>Mobile municipal solid waste Baler</td> <td>Provision of new baler</td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 b</td> <td>Mobile combination conveyer</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 c</td> <td>Mobile Bale conveyer</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 d</td> <td>Bale Gripper</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 e</td> <td>Spillage conveyer</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 f</td> <td>An integrated wrapping unit</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 g</td> <td>toolkit</td> <td></td> <td>Unit</td> <td>01</td> </tr> <tr> <td>06 h</td> <td>Spare parts</td> <td>Set of spare parts for 2 years</td> <td>Lump sum</td> <td>01</td> </tr> </table>					Lot No.: 06					Lot Name: Baler					Item No.	Name of Goods or Related services	Description	Unit of Measurement	Quantity	06 a	Mobile municipal solid waste Baler	Provision of new baler	Unit	01	06 b	Mobile combination conveyer		Unit	01	06 c	Mobile Bale conveyer		Unit	01	06 d	Bale Gripper		Unit	01	06 e	Spillage conveyer		Unit	01	06 f	An integrated wrapping unit		Unit	01	06 g	toolkit		Unit	01	06 h	Spare parts	Set of spare parts for 2 years	Lump sum	01
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14	Section 6, 2. Delivery and Completion Schedule, (page 4)	Revise table as follows: <table border="1"> <thead> <tr> <th>Item No.</th> <th>Description of Goods or Related Services</th> <th>Delivery Schedule (Duration)</th> <th>Location</th> <th>Required Arrival Date of Goods or Completion Date for Related Services</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Provision of an industrial and mobile waste shredder including spare parts, commissioning start-up and training</td> <td>Latest delivery: 6 months after contract award</td> <td>Male'(Maldives)</td> <td>Maximum 2 weeks after delivery to Thilafushi</td> </tr> <tr> <td>02</td> <td>Provision of an industrial and mobile rotating sieving machine including spare parts, commissioning and start-up</td> <td>Latest delivery: 6 months after contract award</td> <td>Male'(Maldives)</td> <td>Maximum 2 weeks after delivery to Thilafushi</td> </tr> <tr> <td>03</td> <td>Provision of an Bulldozer including spare parts, commissioning and start-up</td> <td>Latest delivery: 6 months after contract award</td> <td>Male'(Maldives)</td> <td>Maximum 2 weeks after delivery to Thilafushi</td> </tr> <tr> <td>04</td> <td>Provision of two Excavator, one wheel loader, one waste handler and one telescoping arm handler including spare parts, commissioning and start-up</td> <td>Latest delivery: 6 months after contract award</td> <td>Male'(Maldives)</td> <td>Maximum 2 weeks after delivery to Thilafushi</td> </tr> </tbody> </table>					Item No.	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services	01	Provision of an industrial and mobile waste shredder including spare parts, commissioning start-up and training	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi	02	Provision of an industrial and mobile rotating sieving machine including spare parts, commissioning and start-up	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi	03	Provision of an Bulldozer including spare parts, commissioning and start-up	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi	04	Provision of two Excavator, one wheel loader, one waste handler and one telescoping arm handler including spare parts, commissioning and start-up	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi																														
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		05	Provision of two arm-roll trucks, a set of containers and one tank truck including spare parts, commissioning and start-up	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi
		06	Provision of Mobile municipal Solid waste baler, with mobile combination conveyor, mobile bale conveyor, bale gripper, spillage conveyor (transversal & return), an integrated wrapping unit and toolkit, commissioning and start-up	Latest delivery: 6 months after contract award	Male'(Maldives)	Maximum 2 weeks after delivery to Thilafushi
15	Section 6, 3. Technical specifications, (page 5)	Revise table as follows:				
		Item No.	Name of Goods or Related Services	Technical Description, Specifications, and Standards		
		01	Provision of an industrial and mobile waste shredder including spare parts, commissioning start-up and training	Technical description see below		
		02	Provision of an industrial and mobile rotating sieving machine including spare parts, commissioning and start-up			
		03	Provision of an Bulldozer including spare parts, commissioning and start-up			
		04	Provision of two Excavator, one wheel loader, one waste handler and one telescoping arm handler including spare parts, commissioning and start-up			
		05	Provision of two arm-roll trucks, a set of containers and one tank truck including spare parts, commissioning and start-up			
		06	Provision of Mobile municipal Solid waste baler, with mobile combination conveyor, mobile bale conveyor, bale gripper, spillage conveyor (transversal & return), an integrated wrapping unit and toolkit, commissioning and start-up			
16	Section 6, 3. Technical specifications – detailed technical specification, (page 29)	<p>Include the following specifications:</p> <p>Lot 6: Mobile Municipal Solid Waste Baler</p> <p>The bidder is to deliver and install the following parts and units.</p> <ul style="list-style-type: none"> ▪ Mobile municipal solid waste baler ▪ Mobile combination conveyor ▪ Mobile bale conveyor ▪ Bale gripper ▪ Spillage conveyor (transversal and return) 				

- An integrated wrapping unit
- Toolkit

SUPPLY REQUIREMENTS:

- Installation on Site: installation must be at the Site in K.Thilafushi provided by the Ministry.
- Installation: Supplier must import, assemble and install the Balers according to the specifications and supply requirements and test run after the installation for a minimum of 2 days.
- Training: Supplier must provide extensive training to the Operator identified by the Client, on the operation and maintenance of the Facility.
- Service: after sales service for free of charge during the warranty period
- The party wins the bid shall furnish the following documentation with the equipment
 - System and component description
 - Operating instructions
 - Maintenance instructions
 - Safety instructions
 - Assembly drawings
 - Hydraulic drawings and diagrams
 - Component lists
 - Motor list
 - Electric circuit drawings
 - I/O list
 - Motor and alarm point list
- All the documentation must be in English and delivered in both hard and soft (CD) copies

Technical Specifications

S.No.	Item	Description	Unit	Measurements
A				
	A1	Operation		Fully Automatic to provide with minimal labour
	A2	Baling system		Fully integrated wrapping unit to wrap the bales in plastic net and film

	A3	Wrapped bale output	Wrapped bales should prevent material decomposing during storage and prevent littering, odor emissions leakage and must be weather proof (rain water should not be able to penetrate the bales).		
	A4	Net and film type	Net and film must be made from polyethylene that can be incinerated.		
	A5	Polyethylene color	Color of polyethylene must be white.		
	A6	Control system	The baling and wrapping proces must be controlled by a PLC system mounted on the baler		
	A7	Control panel interface	Control panel with a LCD display.		
	A8	Alarm system	rotating light to alert the operators when the process is stopped, or alarm when necessary/		
	B				
	B1	Machine/Equipment body	All the components of the machine must be sand blasted, except for parts made from corrosive resistant material.		
	B2	Baling material	MSW		
	B3	Bale Shape	Cylindrical		
	B4	Baling capacity		bales/hrs	minimum 25
	B5	Roll-on roll-off frame (RORO Frame)	Height, adjustable hook	mm	1450 / 1570
	B6	Dimension	Length Width Height (Both in transport and working mode)	mm	According to Manufacturer/supplier
	B7	Weight		Kg	According to Manufacturer
	B8	Operation			Electro hydraulic
	B9	Electrical	Drive voltage	3Phase	400V, 50Hz
			Operating voltage	V	Not more than 24
			Installed power	Kw	Not more than 47
			Normal power consumption	Kw	Not more 30
			Electric motors	Nos.	4
			Protection rating (water – and dust proof)		Min IP55
			Air compressor		1
		Contactors, block, relay			Maldives Energy Authority (MEA) complaint

			Safety relays, circuit breakers		Maldives Energy Authority (MEA) complaint	
			Fuses		Maldives Energy Authority (MEA) complaint	
	B10	Noise	In average when baling at 2m distance	dB (A)	Not greater than 83	
	B11	Hydraulic data	Hydraulic pumps	Nos.	12 pcs	
			Hydraulic motors	Nos.	6 pcs SAI	
			Hydraulic cylinders	Nos.	19 pcs	
			Gear boxes		STP	
			Oil capacity, hydraulic system	Liters	450	
			Hydraulic oil type		ISO VG 32	
	B12	Control system	PLC		Microdata	
			Control Panel			
	B13	Radio control equipment	4 channel radio control system		Tele Radio	
	C	Conveyors				
		C1				
		C1(a)	Type	Chain conveyors with pushers		
		C1(b)	RORO frame	Standard		Any internationally acceptable (preferred any European)
				Height, adjustable hook	mm	Standard, but above 1400
				Length of roll-on-roll-off frame	mm	Above 6000
		C1(c)	Drive			Electro hydraulic
				Feed rate nominal, distribution conveyor	m/min	3 or more
				Feed rate nominal, feeder conveyor	m/min	20 or more
		C1(d)	Electrical	Drive voltage	3Phase	400V, 50Hz
				Installed power	Kw	Max. 3

		C1(e)	Hydraulic	Motors	Nos.	3 pcs		
				Gear boxes	Nos.	3 pcs		
				Oil capacity, hydraulic system	Liters	20		
				Hydraulic oil type		ISO VG 32		
				Maximum oil pressure	Bar	100		
		C1(f)	Hydraulic cylinders		Nos.	7 pcs		
		C2						
		C2(a)	Type	Chain conveyor with pushers				
		C2(a)i	Drive				Hydraulic	
		C2(a)ii	Hydraulic data	Motors	Nos.	1 pcs		
				Gear boxes	Nos.	1 pcs		
		C2(b)						
		C2(b)i	Gripping range		mm	Minimum 400 Maximum 1600		
		C2(b)ii	Hydraulic outlet required			1 double-acting		
		C2(b)iii	Hydraulic hoses	Length	mm	1500		
		C3						
		C3(a) Transversal						
		C3(a)i	Type	Belt conveyor			Rubber belt	
		C3(a)ii	Electrical data	Installed power	Kw	Less than 1		
				Drive voltage	3 Phase	400V,		
		C3(a)iii	Hydraulics	Gear boxes	Nos.	1 pcs		
		C3(a)iv	Feed rate		m/mm	Above 14		
		C3(b) Return conveyor						
		C3(b)i	Type	Belt conveyor			Rubber belt	
		C3(b)ii	Electrical data	Installed power	Kw	Below 2		
				Drive voltage	3 Phase	400V		
		C3(b)iii	Hydraulics	Gearboxes	Nos.	1 pcs		
C3(b)iv	Feed rate		m/mm	30 or above				
D								
		Off loading height	mm	Not less than 1800				
		Model		Sweep arm				

			Stretch film rolls	Nos.	At least 1pc with each system
			Plastic stretching	%	Greater than 50
		E			
				Nos.	1 set with each system