



CLARIFICATION 01

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ނަންބަރު No:	TES/2022/G-011	
ޕްރޮޖެކްޓް Project:	Procurement of Design, Supply and Installation of Grid-tied Solar PV-Diesel Hybrid Power Generation Plants in 16 inhabited islands of Meemu, Faafu and Dhaalu Atolls in Maldives	
ޖަހާ ދިނުމުގެ ދުވަސް Issued Date	19 th July 2022	
ސަފުހާ ގެ ޅަންބަރު No. of Pages: -07	ބޯޖު ގެ ޅަންބަރު Boq: -00	ޖަހާ ދިނުމުގެ ޅަންބަރު Drawings: -00

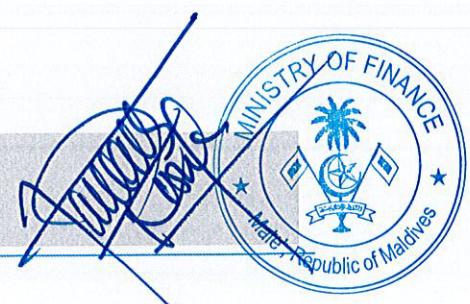
Please include this clarification when submitting the bid

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- Please find attached, answers to the queries received.

ނަންބަރު
Name: Fathimath Rishfa Ahmed

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Signature:



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#	Document Name	Document Reference (Section no/page no etc)	Query	Response
1	Plant 1S2E Section 6_(MFDHL) 1.2 Scope of work	The scope of supply, works and services shall cover, but not limited to the following: <ul style="list-style-type: none"> • assessment of the site and site characteristics. • development, detailed design, engineering (including equipment specifications), coordination of sub bidders, permitting, procurement, manufacturing, factory testing, supply of all equipment (also including spare parts, consumable, special tools and handling equipment, etc.), transport to site, storage on site, erection, construction, commissioning and performance testing of the systems. 	We have not found any drawings related to on-site architecture, building structure, electric installation, and on-site load conditions in the bidding documents. Please provide details about the relevant drawings and load conditions so that we can design the project more accurately.	For bidding purposes, all the required information is provided in the tender documents.
2	1. General	1. Typical Drawing	<ol style="list-style-type: none"> 1. Please confirm whether these drawings are general drawings for each island ? 2. Please confirm whether the distribution box specifications and internal components of each island are the same? 3. Regarding the drawings mentioned in the document, please confirm whether the distribution box system drawing is suitable for new distribution boxes or replacement of distribution box? 	<ol style="list-style-type: none"> 1. Yes. They are general drawings. 2. Internal components of the distribution box and specifications are same for all islands. 3. Suitable for both.
3	Plant 1S2E Section 6_(MFDHL) 1.2 Scope of work	The scope of supply, works and services shall cover, but not limited to the following: <ul style="list-style-type: none"> • assessment of the site and site characteristics. 	Please provide the approximate age of the building on site, and its the roof type (cement or color steel) What is the proportion for the cement and color steel? so that we can design the project more accurately.	Available roof type information is provided in tender documents section 6.

AMK



		<ul style="list-style-type: none"> • development, detailed design, engineering (including equipment specifications), coordination of sub bidders, permitting, procurement, manufacturing, factory testing, supply of all equipment (also including spare parts, consumable, special tools and handling equipment, etc.), transport to site, storage on site, erection, construction, commissioning and performance testing of the systems. 		
4	Plant 1S2E Section 6_(MFDHL) 1.2 Scope of work	2.5.2 Diesel Generators Each island runs with minimum of three diesel generators. It is out of the scope of this tender to install new diesel generator however, the contractor is responsible to integrate the existing Diesel gen sets within the EMS of the Hybrid energy mini grid and provide main signals to the central SCADA. Furthermore, EMS shall not be limited by number/size/model of diesel generators and shall be able to accommodate future changes in number of DG's and size.	Please confirm whether signals for all island are transmitted to a unified SCADA system or separate SCADA systems and provide the location of the central SCADA system. who is the manufacturer if there were new generators to be installed in the future? What is the communication protocol? How far is the newly 'to be installed' diesel generators from the EMS system?	For each island, all monitoring and control signals are collected by the local EMS. Monitoring signals are also sent to central SCADA. The EMS is next to all intalled (or to be installed) Diesel Gen Sets.
5	Plant 1S2E Section 6_(MFDHL) 2.8.4.2 Grid infrastructure upgrade	<p>This includes but not limited to the following works.</p> <ul style="list-style-type: none"> • Upgrade of the existing cable network from powerhouse to PV feed-in point. • Modification or replacement of Distribution boxes to accommodate the proposed higher size cables connection. • Modification or replacement of Distribution boxes to accommodate new connection of proposed PV. • Replacement of existing Main LV Distribution board with the new LV 	(for all islands) For "Addition of New Distribution boxes and cable segments where indicated.", Please give the specifications and lengths of the cables for each island. Please confirm that the indicated location was menthioned in the • Schedule of Proposed Grid/PV Connection Cables.	Details are provided in the bidding document section 6 and "grid upgrade drawings" included in the bidding document.

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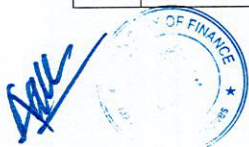


		Distribution board in the powerhouse. • Addition of New Distribution boxes and cable segments where indicated.		
6	Plant 1S2E Section 6_(MFDHL) 2.8.4.2 Grid infrastructure upgrade	This includes but not limited to the following works. • Upgrade of the existing cable network from powerhouse to PV feed-in point. • Modification or replacement of Distribution boxes to accommodate the proposed higher size cables connection. • Modification or replacement of Distribution boxes to accommodate new connection of proposed PV. • Replacement of existing Main LV Distribution board with the new LV Distribution board in the powerhouse. • Addition of New Distribution boxes and cable segments where indicated.	(for all islands) Regarding this project, please provide the number of new distribution boxes and the number of distribution boxes that need to be replaced.	Details are provided in the bidding document section 6 and "grid upgrade drawings" included in the bidding document.
7	Plant 1S2E Section 6_(MFDHL) 2.8.4.2 Grid infrastructure upgrade	This includes but not limited to the following works. • Upgrade of the existing cable network from powerhouse to PV feed-in point. • Modification or replacement of Distribution boxes to accommodate the proposed higher size cables connection. • Modification or replacement of Distribution boxes to accommodate new connection of proposed PV. • Replacement of existing Main LV Distribution board with the new LV Distribution board in the powerhouse. • Addition of New Distribution boxes and cable segments where indicated.	(for all islands) Please specify the number, specifications and configuration requirements of the existing low-voltage distribution boxes that need to be replaced.	Details are provided in the bidding document section 6, "grid upgrade drawings" and "typical drawings" included in the bidding document.
8	SEC 6	Power House Relocation Details (Page 8)	Share the details of the power house for relocation purpose	Not required for the bidding purpose

ALL



9		Bidder Track record should be 50MWp in PV Model (Page 110)	In single project or cumulative projects	Cumulative
10		Existing PV Plant Details	Please share the Existing PV Plant Details, if any.	Not required for the bidding purpose
11		It is out of the scope of this tender to install new diesel generator however, the contractor is responsible to integrate the existing Diesel gen sets within the EMS of the Hybrid energy mini grid and provide main signals to the central SCADA. (Page 23, 2.5.2)	Please Clarify if New DG Set will be installed or not	New DG are out of the scope of this tender
12		Diesel Generator system, there is no replacement or upgradation of the existing generator system under the scope of this tender. (page 12)	Please Clarify if New DG Set will be installed or not	New DG are out of the scope of this tender
13		As per the document, the locations are mentioned for Solar PV Installation	Will the power be supplied from the Installed places to the entire island or limited places?	All PV sites will inject power at Power House. From there, it will be distributed to loads thorough existing feeders
14		Please state the scope of the tender	As per the do we have to either upgrade or relocate the pv plant or install a new one as well?	No need to relocated any PV plant
15	BDS	The prices shall be quoted either in MVR or USD. (ITB 19.1)	Please Clarify which Currency will be used?	Bidder can quote in either MVR or USD. For bid evaluation purpose USD will be used.
16		The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: United States Dollars (USD). (ITB 37.1)		
17		The Bidder shall furnish a bid security in the amount of: USD 150,000 (ITB 21.1)		



				<p>Republic of Maldives</p> <p>Beneficiary Bank Details are as below: Intermediary Bank Name: Federal Reserve Bank of New York, 33 Liberty Street, New York, N.Y 10045, U.S.A SWIFT Code: FRNYUS33 Beneficiary Bank's Account No. with Intermediary Bank: 021084830 Beneficiary Bank Name: Maldives Monetary Authority, Male', 20182, Rep. of Maldives SWIFT Code: MMAUMVMV Beneficiary Account No.: 220301 Beneficiary Account Name: Public Bank Account Beneficiary Name: Ministry of Finance</p>
18		In addition to the original Bid, the number of copies is: One Authentic Hard Copy (stamped), and One Authentic Soft Copy (stamped and scanned) The Soft Copy for the Technical Bid should not contain any price data. (ITB 22.1)	Please state the mode of Submission of the Soft Copy of the Bid	In either a CD or USB. Should be in <u>one</u> PDF file.
19	Section 2 - Bid Data Sheet	ITB 16.1 (b) The period following completion of plant and services in accordance with provisions of the contract shall be ten (10) years after successful commissioning per island.	According to this Spares warranty shall be for 10 years or availability of spares for 10 years?	Availability of spares for 10 years



20	Section 6 - Employer's Requirements	Table 2-2 With at least 1C nominal discharge rate	Need to be supplied 2C type battery or 1C type higher capacity battery to provide given minimum power.	Minimum 1 C and minimum (kWh) capacity provided in tender
21	Section 6 - Employer's Requirements	2 All Existing Diesel Generators shall be integrated in the hybrid PV system and provision shall be provided to add minimum 6 generators	Spare breakers need to be provided in LV panel to connect future 6 generators?	Please follow the "Conceptual Schematic for LVDB" included in the bidding document for the LV panel.
22			Based on the Employer Requirements, the module suggested is 260Wp. Is it allowed to propose different module classes?	It is allowed to propose a different higher capacity module class
23			Please share any Power System Study for the existing system in the Islands in the process of targeting the targeted capacity.	No need for bidding purposes
24			During the end of the Pre-bit Meeting, it was said that the roof condition is not the bidder's consideration at this stage to take account of. Is variation order acceptable after the award of the tender?	The bidder shall provide a design assuming existing roofs can host the desired number of PV panels
25			Please share any layout/pictures of the roofs for the facilities in the tender during the site visit conducted by MOF?	Available roof type information is provided in tender documents section 6.
26	Section 2 - Bid Data Sheet C. Preparation of Bids ITB 15	Certificates, audited financial reports and project completion certificates, if not in English, shall be translated and certified by a notary public or government authorized agency from the Bidder's country.	Regarding the notarization of the certificate, do we only need to notarize enterprise qualification alone or other certificates as well?	All certificates.

