



Ministry of Finance
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މާލެ، ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ

CLARIFICATION 1

ނަންބަރު 1 ގެ ސަފުހާ

ނަންބަރު No:	TES/2022/G-010	
ފަންޓްޔުގެ ނަންބަރު Project:	Design, Supply, Installation and Commissioning of Battery Energy Storage Systems (BESS) on Selected Islands in Maldives	
ޖެރިކުރުވާ ދުވަހު Issued Date	26th September 2022	
ސަފުހާގެ އަދަދު No. of Pages: -05	ބީ.ޕީ.އެލް. BoQ: -00	ޖަހާފައިވާ ނިޔަންމުތައް Drawings: -00

Please include this amendment when submitting the bid. ބަދަލުގެ ސަބަބުން ޖެރިކުރުވާފައިވާ މި ސަފުހާގެ މައުލޫމާތު ބަދަލުވާނެ ކަމަށް ބަލާލެއްވުމަށް އެދިގެން ވަނީ ބަޔާންކުރެއްވިފައެވެ.

- **Answers for the queries is attached with this Clarification.**



ނަންބަރު
Name: Fathimath Rishfa Ahmed

ސަފުހާ
Signature:



Republic of Maldives

CLARIFICATION 01

Request for Bids

DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF BATTERY ENERGY STORAGE SYSTEMS (BESS) IN SELECTED ISLANDS IN MALDIVES

RFB No: MV-MEE-283164-GO-RFB

**Accelerating Renewable Energy Integration and
Sustainable Energy (ARISE) Project**



Issued on: September 26, 2022

Issued by:

**Ministry of Finance
Republic of Maldives**

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



Ministry of Finance
Male' Republic of Maldives

Accelerating Renewable Energy Integration and Sustainable Energy (ARISE) Project

DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF BATTERY ENERGY STORAGE SYSTEMS (BESS) IN SELECTED ISLANDS IN MALDIVES

RFB No.: MV-MEE-283164-GO-RFB

Clarification 01


The following table comprises the responses to the clarifications raised during the pre-bid meeting held on September 01, 2022.

Item No.	Reference	Quoted Text	Clarifications / Question	Responses / Confirmation / Addendum
1	General		How many companies have been registered to give the project tender?	Information cannot be disclosed.
2	General		In the tender document, it says the bidder can bid as a JV bidder. What is the definition of a JV? Does it mean two separate bidding companies will be able to form a JV that mean they have to have a legal registered company to bid for executing this project?	JVs mean Joint Venture, where two or more companies come together to jointly bid for the project. In case the bidder is bidding as a JV, it is not necessary to actually form a JV company before submitting the bid, but bidder will have to provide a letter of intent to form a JV with the bid. Other details on JVs are included in the tender documents. Bidders are requested to refer to Section I - ITB, Clause 4.1 and 11.2 for further clarity.



Item No.	Reference	Quoted Text	Clarifications / Question	Responses / Confirmation / Addendum
3	General		If two separate companies intend to bid for the project as a JV bidder, is it sufficient to provide a Consortium Agreement or Letter of Intent?	Bidders understanding is correct. For further clarity, bidders may refer to Section I - ITB, Clause 4.1 and 11.2 of the tender documents.
4	Qualification Requirements 4.2 (a)		In the Qualification Construction experience, the contract volume of USD 18 million for Lot One and USD 13 million for Lot Two. Is the volume requirement accumulated within the last 5 years or for every year?	Bidders are requested to refer to Section III - Evaluation and Qualification Criteria, Clause 4.2 (a): 1. In case the Bidder is bidding only for LOT 1, contract value of at least USD 18 million cumulative over the last 5 years is required 2. In case the Bidder is bidding only for LOT 2, contract value of at least USD 13 million cumulative over the last 5 years is required 3. In case the bidder is bidding for both LOT 1 and LOT 2, contract value of at least USD 31 million cumulative over the last 5 years is required.
5	Qualification Requirements 4.2 (a)		Any deviation to this requirement, the bidder will be disqualified. Is this correct?	Yes. Bidders are therefore requested to comply with all the requirements provided in Section III - Qualification and Evaluation criteria. Bidders may also refer Section I - ITB, Clause 39.
6	Technical		Based on the tender, the energy storage system has to be in 20 different locations. Is there a requirement in this tender for a centralized system which has control over the 20 locations or will they work independently throughout?	Each of the installations will work independently with their own O&M staff from the utility working in the power station. There is a requirement to connect the systems to the Utility's SCADA. In principle, this connection can allow Utility to provide some operational commands from a centralized location if it needs to. However, the primary purpose is to collect data and not provide central operational functions. Operations will be made locally.



Item No.	Reference	Quoted Text	Clarifications / Question	Responses / Confirmation / Addendum
7	Technical		Regarding the DC voltage of the PCU the Power Conversion Unit, is there any requirement in the DC voltage in the busbar?	DC Voltage of the PCU has not been specified. Bidders can provide as per their design. The system has to comply with all the electrical safety requirements.
8	Technical		For the capacity of each individual inverter module, is there any requirement, for example in the minimum capacity in kVA or kW requirement?	There is no minimum or maximum capacity limit for each inverter unit. However, bidders need to show that BESS are fit for purpose and designed for low cost operations and maintenance, therefore the use of inverter sizes appropriate to the capacity on the site, and using common equipment where practical, is expected.
9	Technical		There is a requirement in the ITB which says about the efficiency of one cycle charging and discharging efficiency of 85%. How is this efficiency defined? How do you specify testing condition to come up with the 85% efficiency?	As per Attachment B - BESS to the Employer Requirements, Definitions for the BESS are in accordance with IEC 62933 (unless otherwise stated). For example, roundtrip efficiency is: energy discharged measured at the primary POC divided by the energy absorbed, as a sum of what is measured at all the POCs (primary and auxiliary), over one EESS predetermined charging/discharging cycle in a specified operating mode at continuous operating conditions.
10	Technical		For the operation of the battery energy system, what is the duration that the system should work for in case it needs to supplement in a single operation?	For the most of the islands it is a 1-hour storage requirement expect for Gan which is a 2-hour battery.

Important Notes:

- Data Room Link as in Bid Document.
https://mofmv-my.sharepoint.com/:f/g/personal/ibrahim_aflah_finance_gov_mv/ErPj7QFkAkRKnMS3bykvzw8BZE4iRqBdT4w5cLFcdv4w6A?e=DVMtv5
- All bid related documents are available at the following link:
<https://www.finance.gov.mv/tenders/design-supply-installation-and-commissioning-of-battery-energy-storage-systems-bess-on-selected-islands-in-maldives>