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No:	TES/2018/G-013		
Project:	Design, Supply, and Installation of EMS and BESS of PV Diesel Hybrid System in Addu City of Maldives		
Issued Date	07 th May 2018		
No. of Pages: -06	Boq: -00	Drawings: -00	

Please include this amendment when submitting the bid.

- Kindly find the Clarifications attached.

Name: Fathimath Rishfa Ahmed

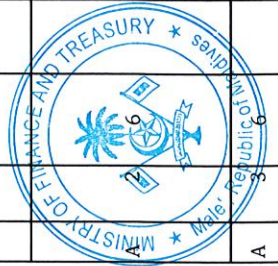
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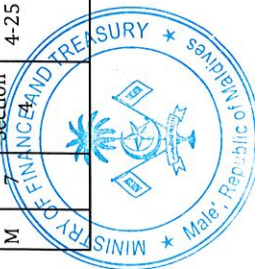
Invitation for Bids No.: (IUL) 13-K/13/2018/70
ICB No.: TES/2018/G-013
Design, Supply, and Installation of EMS and BESS of PV Diesel Hybrid System in Addu City of Maldives

Clarifications

No.	Section	Page	Clause/ DWG No.	Clarifications	Reply to Clarification
T	1	1-7	7	The deadline for clarification submission is set as 24th April 2018. However, could you please consider to postpone due to following reasons. 1. Tender documents did not published on 4th April and bidders could get all documents 1 week after the public announcement. All bidders could not start to read the tender documents.	Tender submission date extended to 28th May 2018
M	31	-	Invitation for Bids	The IFB mentioned that the bidding document was available from 05th April in the website of Ministry of Finance and Treasury. However, we understand that the Main Part was available from 08th April and the Drawing Part was available from 09th April. Based on the above situation, we would like to request for extension of the date of bid submission at least 4 days.	
A	1	1	1.1 Technical Evaluation	"Only offers from registered bidders will be considered. Registration takes places automatically after payment of the fee to obtain the bidding documents." Please note that, as per tender notice, the tender documents have been downloaded free of charge at the following link: http://www.finance.gov.mv Question n. 1: What do we have to do in order to duly register our company so that our offer will be considered for further evaluation? Kindly advise.	The bank account details for the transfer of payments to Register for the Project. Please do quote the project name correctly as stated in the Invitation for Bids, while you make the payment. Intermediary Bank Name: Federal Reserve Bank of New York New York, N.Y 10045 U.S.A SWIFT Code:FRNYUS33. Beneficiary Bank's Account number with Intermediary bank : 021084830 Beneficiary Bank Name: Maldives Monetary Authority, Male', Maldives SWIFT Code: MMAUMVMV. Beneficiary Account Number: 125. Beneficiary Account Name: Ministry of Finance & Treasury. Please note that interested parties can only take part in the bidding process after remitting the requested payment to the above mentioned bank account OR making the payment directly to the Ministry of Finance and Treasury, Maldives.
				Please clarify if connections to/from the existing PV systems and Diesel Generators are included in our scope? Kindly advise	Communication cable from existing PV systems to power house is existing and not included in the scope. Connection between EMS/BESS and diesel control panel and connection between PV monitoring system and EMS/BESS is included in the scope.
A	3	6		Please clarify the communication protocol between the existing PV system and the EMS has to be supplied . Kindly advise.	Communication protocol of existing PV system is Modbus.



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A 4	6			Please clarify if existing PV systems are equipped with meteorological station. Kindly advise.	One of the existing PV system site measures wind velocity and direction, solar irradiance, and temperature, and displayed at monitoring system installed inside diesel power house control room.
A 5	4			Please clarify if there is any limit to guarantee the 13,000 cycles? Eg. even with a 2 Cp rate, substitution of the batteries during the system lifetime etc..?	Cycle of battery shall be equivalent or more than 13,000 as its original life without replacement, with discharge rate 3C or more. Substitution of battery during life is NOT accepted with the cycle 13,000 or more. Evidence for battery life equal to or more than 13,000 is must be submitted in the bid.
A 6	2			We deem a pre-bid meeting and site visit shall be organized. Kindly advise on the possible schedule, if any.	Pre-bid meeting will NOT be held.
A 7				We understand that the bidders are free to visit the project site (Addu, Fenaka Power House) if necessary and essential to make their proposal. Kindly provide us with the contact details of the site staffs in the power house	For site investigation at Addu FENAKA Power House, please contact with Mr. Mausoom, FENAKA Hithadhoo power house (mausoom.shakoor@gmail.com)
M 1	Section 1	1-13	21. Bid Security/ Bid Securing Declaration	The article 21.3 mentions that "all from a reputable source from an eligible country as described in Section 5 (Eligible Countries)". Though there is no nationality restrictions apply in the Section 5, we understand that in case the institution issuing the security is located outside the Republic of Maldives, it should have a correspondent financing institution located in the Republic of Maldives to make it enforceable. Please confirm.	Bidder's understanding is OK
M 2	Section 2	2-4	ITB 18.1	Please provide the detail instructions of the method of the price indication for the Bidder of the international foreign companies who do not engage in any work in Maldives, or do not have registered their entity in the Maldives, or do not have incorporated a company in Maldives, at the present situation.	Bid should be quoted in USD
M 3	Section 3	3-10	2.4 Bidder's Experience 2/4/1 Contracts of Similar Size and Nature	We understand that "similar nature" means the contract includes "BESS and EMS" in this project case. Please confirm.	"Similar nature" includes but not limited to BESS and EMS. It also includes other equipment supply and installation in development projects.
M 4	Section 3	3-11	2.4.2 Experience in Key Activities	<QUOTE>at least one (3) completed projects</QUOTE>	"at least three (3) completed projects" is correct.
M 5	Section 4	4-21	Mobilization Schedule	Please clarify which is correct "one" or "(3)". We understand that the Bidder shall provide the information of "Personnel Dispatch Dchedule". Please confirm if our understanding is correct.	Personnel dispatch and allocation schedule will do.
M 6	Section 4	4-22	Construction Schedule	It mentions the schedule shall include "interim ADB approvals". What kinds of approvals are there and how can we estimate the period of them?	The approval is about payment. Please indicate the timing of milestone. Period need not be considered.
M 7	Section 4	4-25	Form EQ: Equipment	There is no specific requirements indicated in Section 6 (Employer's Requirements). Please confirm what kinds of information the Bidder has to provide in the form.	Please provide main item components of C. of Section 6 (namely, C-2 EMS, C-3 BESS system, C-4 400V distribution board, C-5 container, C-6 11kV meter, C-7 400V meter, C-8 power cable, C-9 Control Cable, and C-10 FUEL FLOW METER). Attach specification/catalogue for proposed equipment as necessary.



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M 8	Section 4	4-35	Form ELI-2: Joint Venture Information Sheet	We understand that for the subcontractor's information shall be filled out by the Bidder and sign the form by the Bidder (not subcontractor). Please confirm if our understanding is correct.	<i>Bidder's understanding is OK</i>
M 9	Section 6	6-21	B-4 (1) (m)	We understand that modifying of program of Deep Sea Electrics control panel is not in the contractor's scope. Kindly clarify.	Modification of program of Deep Sea Electrics control panel is not contractor's scope.
M 10	Section 6	6-24	B-4 (4)	We understand that "salt weather resistance finishing to adopt local weather at least 20 years" shall be maintenance free for 20 years and re-painting shall not be allowed. Kindly clarify.	When maintenance is necessary such as re-painting, instruction shall be given to the Employer with supporting material for 20 years use at local weather condition.
M 11	Section 6	6-27	C-1.1	In Drawing No. POISED-0429-MLD-E006, Command and Control Signal is required for all D/Gs. Does that mean new Deep Sea Controller shall be installed to D/Gs that has no Deep Sea Controller currently?	Assume the condition that Deep Sea Controller for all DG sets are already installed.
M 12	Section 6	6-27	C-2	As the result of our site survey, it seems to be difficult to install EMS at the place which is specified in Tender Drawing No. POISED-0429-MLD-L003, because the specified place is already occupied by other equipment. Is it acceptable to change the place in accordance with FENEKA's instruction.	It is acceptable to change the place in accordance with FENEKA's instruction.
M 13	Section 6	6-34	C-3	As the result of our site survey, it seems to be difficult to install BESS at the place which is specified in Tender Drawing No. POISED-0429-MLD-L003, because there might be existing buried cables and existing facilities. Is it acceptable to change the area in accordance with FENEKA's instruction.	It is acceptable to change the place in accordance with FENEKA's instruction.
M 14	Section 6	6-38	C-7 (2)	It is stated that "Bi-directional Digital Energy Meter shall be able to connect to existing CTs". We are concerned that as a result of connecting to existing CTs, the existing PV data collecting system will not work properly. Kindly clarify.	Apply new energy meters at each PV site that can work with existing CT. When PV kWh data is obtained from each site, and displayed and recorded in new EMS at power house control room, it is acceptable that even same data is not displayed at existing monitoring system.
M 15	Section 6	6-65	F-7.3	Kindly disclose the design rainfall due to design drain channels around BESS.	Consider rainfall 228 mm/day (2015, worst in 40 years)
M 16	Section 6	6-57	F-1.2	Should we consider the records of past disasters (Storm surge etc.) to decide the height of the base of containers?	The base of containers shall consider storm surge, and should be higher than existing control room of Hithadhoo power house.
M 17	Section 6	6-40	C-11	Kindly tell us who will approve the illustration of Project sign board?	The engineer assigned by the Employer and FENAKA will approve.
M 18	Section 6	6-57	F-1.1 (2)	Kindly disclose Geological information that should be attached in the Tender Documents.	Geological information should be confirmed by bidder.
M 19	Section 6	6-22	-	Kindly tell us whether the loss of the transformer installed between PCS and Distribution Board should be included for the calculation of PCS efficiency.	Loss of efficiency of transformer and PCS shall be calculated separately and indicate it clearly.
M 20	Section 6	6-22	-	We understand that PCS side voltage of the transformer installed between PCS and Distribution Board is not AC415V. it is output voltage of PCS.	The output voltage of PCS is AC415V.
M 21	Section 6	6-22	-	We are going to install the transformer, which is going to be installed between PCS and Distribution Board, at outside of the container.	It shall be approved when it is outdoor installation type.
M 22	Section 6	6-23	-	Is it acceptable that 400V Distribution Board is designed as outdoor type and is installed at outside of the container?	It is acceptable. For outdoor installation, it shall be IP55 or IP54 material used to manufacturing box for device. It shall be designed to withstand more than 20 years of local weather condition of project site.
M 23	Section 6	6-24	-	Kindly tell us whether flow meter shall not be supplied, but also replaced to the existing meter.	New flow meter compatible with existing TOKIKO flow meter shall be supplied and replaced with existing meter.
M 24	Section 6	6-24	-	Is it acceptable that the paint of container has 20 years tolerance as the result of regular paint refinishing.	This is acceptable. Regular paint instruction and painting material shall be provided.

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M 25	Section 3 & 6	3-4, 6-4, 6-35	-	Kindly tell us the requirement of safety standard.	The safety standard is as mentioned in C-3.2.1 and C-3.2.2 of Section 6.
M 26	Section 6	6-80	7. Personnel Requirements	We understand that the required personnel must be the permanent staff of the Bidder or the Subcontractor (the nominated subcontractor in the Bid) to secure the quality and performance of the Bidder. Please confirm.	The required personnel shall be the permanent staff of the Bidder, or the personnel assigned by the Bidder including Subcontractor
M 27	Section 8	8-3	14. Taxes and Duties	We understand that all taxes and duties related with the equipment importation include custom duties and other taxes and duties (eg: Import VAT/GST, if applicable) are exempted. Please confirm.	Only customs duty will be exempted by the government of the Maldives. We do not have VAT, we have GST. GST is only applicable to the services and goods procured within Maldives and these taxes have to be borne by the successful bidder. The successful bidder has to register their business in the Maldives for the period of the project and BPT shall be subject to the profit attributable to PE for the profit derived from this project.
M 28	Section 8	8-3	14. Taxes and Duties	We understand that the transportation for delivering the equipment to the project site shall be the responsibility of the contractor. On the other hand, we understand that the necessary procedures for the tax exemption shall be the responsibility of the Employer. If our understanding is correct, the unexpected delay caused by the tax exemption procedure by the Employer shall not be deemed as the contractor's default. Please confirm.	Bidder's understanding is OK
M 29	Section 8	8-3	14. Taxes and Duties	Our understanding is that BPT (Business Profit Tax) shall be subject to the profit attributable to PE, in other words, the profit derived from Onshore (Maldives Portion) is subject to BPT, while the profit from offshore (Foreign Portion) is not subject to BPT. Is our understanding correct?	Bidder's understanding is OK
M 30	Section 8	8-3	14. Taxes and Duties	What kind of registries should the International Bidder who has no current registration in Maldives make to execute the project in Maldives?	The successful bidder has to register their business in the Maldives for the period of the project.
M 31	Section 9	9-11	Appendix 3 - Insurance Requirements	We understand that there is no nationality restrictions (in accordance with the Section 5) for the insurance company. Please confirm.	There is no nationality restrictions for insurance company.
T 2	2	2-5	ITB 22.2	Submission of Power of Attorney (POA) is requested. Can we recognize that the bidder submit the POA and subcontractors do not need to submit POA?	POA is necessary for bidder and JV partners, and not necessary for subcontractor. Letter of intent from subcontractor is necessary.
T 3	2	2-4	ITB 16.1(b)	The term for 20 years to supply spare parts and special tools is requested. Could you please accept to supply alternative parts or tools?	In case it is appear the product supply is planned to be finished within 20 years, alternative parts or tools are accepted.
T 5	3	3-12	2	Submission of evidence is required for the evaluation of supply experience. Could you please accept to submit the papers in which sub-contractor's supply experience is mentioned as equivalent documents with completion certificate and the copy of the contract?	Completion certificate or the contract including the part that shows scope of necessary experiences will do. Internal paper prepared by Sub-contractor is NOT considered as the evidence.
T 6	3	3-12	2	Regarding No.3 on the table, the supplier have to submit example of calibration certificate or test report or type certificates of the proposed meters. It means that test report or type certificates can be acceptable instead of calibration certificate. However, on page 6-49, calibration certificate seems to be mandatory. Which is correct?	For bidding purpose, type certificate is acceptable. Before actual installation work at site, submission of calibration certificate is necessary for approval.
T 7	6	6-21	B-4	Frequency measurement can be done by one of the 11kV meters. Therefore, the frequency meter is physical equivalent to one of the 11kV meters. Could you please accept to use one of the 11kV meters as frequency meter? (Separate frequency meter will not be installed.)	In case 11 kV meter covers both kWh and Hz measurement and both signals are sent to EMS, it is acceptable.
T 8	6	6-31	C-2.1.2.6	For data recording of "Demand", do we need to record individual 11kV meters' kW, or just total kW?	It needs to record both individual 11kV meter kWh and total kWh.
T 9	6	6-31	C-2.1.2.6	For data recording of "PV generation", do we need to record individual 400V meters' kW, or just total kW?	It needs to record both individual 400V meter kWh and total kWh.

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T 10	6	6-34	C-2.1.2.9	Either DNP3 or Modbus-Ether should be enough to support. Not need to support both protocols. Is it correct?	Either DNP3 or Modbus-Ether is sufficient. Using both protocols is not recommended.
T 11	6	6-34	C-3.1	PV smoothing function itself is implemented on EMS, not on BESS. BESS charges/discharges according to EMS's command. As a result of EMS control, PV output is smoothed. Is my understanding is correct?	<i>Bidder's understanding is OK</i>
T 12	6	6-23	B-4	The quantity of PCS is 2 units or more. Our offer will include 2x500kW inverter modules in a single panel. This is a redundant system to meet the requirement. Please confirm if it is OK.	It is acceptable. Also it needs to suffice the spare parts requirement.
T 13	6	6-23	B-4	For insulating method, AC415/415 insulation transformer is required. However, our battery system is 350V system so AC350/AC415 insulation transformer will be used instead. Please confirm if it is OK.	It is acceptable.
T 14	6	6-10	A-9.4	IP55 is required for ourdoor enclosure. This specification is over-specification and becomes the reason of cost up. IP54 should be enough under the site environment. Could you please accept to apply IP54 instead?	Basically IP55 level is required. In case IP54 is proposed, it is accepted on condition that it is durable for 20 years at site condition with necessary maintenance. Maintenance method and material shall be provided to the employer.
T 15	6	6-21	B-4	UPS will be located in the server room but client will be in the different location. It is difficult to backup for both server and client. I suggest to backup only for the server.	UPS for both client and server is necessary.
T 16	6	6-38	C-6	I have contacted Mitsubishi and found that they do not have IEC meter compatible with M2BH-VR. M2BH-VR is an old mechanical meter and not available any more. Mitsubishi recommended upper compatible meter but it is also mechanical meter and does not support IEC and remote communication. I suggest to eliminate the compatibility.	In case other meter is proposed, any necessary modification shall be done by the contractor. Certification of IEC or relevant international standard and calibration certificate is necessary for the meter.
T 17	6	6-28	C-2.1.2.2	EMS shall acquire weather information record and forecast information from Meteorological Organizations. In this case, internet connection will be required. Providing internet connection is the scope of Employer. Please confirm. Internet connection will be required for time synchronization as well.	Internet connection will be supplied by the Employer
T 18	6	6-28	C-2.1.2.2	EMS shall acquire weather information record and forecast information from Meteorological Organizations. In this case, the contract between meteorological organization and Employer will be required. We will include 5 years cost of the contract of bidding. Please confirm if it is OK.	It is acceptable. In case the Client needs contract with meteorological organization after the period is over, guidance shall be provided during training and handover.

