



## ADDENDUM 01

Project No:	TES/2016/G-012
Issued Date:	October 4, 2016
Project:	<b>Design, Supply, Installation and Maintenance of renewable energy hybrid power plants in Haa Alif Atoll – Maldives</b>
Deadline for submission:	<b>October 26, 2016 Wednesday at 1000 hours</b>
No. of Pages:	- 8

Please include this clarification when submitting the proposal

1. Please find the **Clarification 1** issued, attached with this sheet.
2. Note that a new drawing set is uploaded to the website, [www.finance.gov.mv](http://www.finance.gov.mv)
3. The following changes are brought to the Data Sheet.

ITB 24.1	<p>For <b>bid submission purposes</b> only, the Employer's address is</p> <p>Attention: Mr Ahmed Mujuthaba, Director General, Public Procurement Division, Ministry of Finance and Treasury Street address: Ameenee Magu City: Malé Country: Maldives</p> <p><b>The deadline for bid submission is</b> Date: 26 October 2016 Time: 1000 hours Maldivian time</p>
ITB 27.1	<p>The bid opening of Technical Bids shall take place at</p> <p>Public Procurement Section, Public Procurement Division, Ministry of Finance and Treasury Street address: Ameenee Magu City : Malé Country: Maldives</p> <p><b>Date: 26 October 2016</b> <b>Time: 1000 hours Maldivian time</b></p>

Name: Aminath Juweriya

Signature:





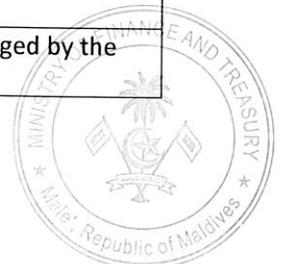
Ministry of Finance and Treasury  
Male' Republic of Maldives

**Preparing Outer Islands for Sustainable Energy Development**

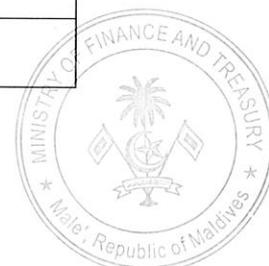
**Design, Supply, Installation and Maintenance of renewable energy hybrid power plants in Haa Alif Atoll – Maldives**

**CLARIFICATION 01**

Q No. from Bidder	Question	Clarification Consultants
1	Where is indication for each buildings interconnection point - ie single phase or three-phase?	The grid is 3 phase, as such all PV site interconneciton points are three phase.
2	Can we provide higher capacity (by using more efficient panels) for same price / usable area per roof? Is there any advantage or penalty in offering higher PV capacity at same price?	Yes, hihger capacity modules are acceptable as long as comply with all the technical specification. There is no advantage offering higher capacity PV modules
3	Is there benchmark pricing available from previous successful tenders?	No
4	What is the ratio of total points given to Technical and Price consideration? (Weightage per document)	Single stage two envelop system. No pointing will be given. Fiancial bid for substantially qualified bidders will be opened
5	What are the guaranteed yield amounts (per specs in tender) - what are the penalties for not achieving guaranteed yield? (performance warranties)	The guranteed performance of the PV yields are stated in the section 6.0 and also section 3 chapter 1.3.4. The penalty for failing to achive the required perforamnce gurantee is clarified in section 9 Appendix 8
6	What are the main evaluation criteria for technical aspect (e.g. PV capacity, workmanship, DG integration?)	Technical evaluation criteria is the requirement to comply with the tenchnical specifcaiton as per tender document
7	Which islands do we have space for temporary workers quarters and storage of our goods/ materials?	it has to be arranged by the bidder



8	Do we need to purchase the official bid documents and what is the cost and where can it be acquired?	<p>The Bidder shall be registered to submit a bid upon payment of a compulsory, non-refundable Registration fee of USD 100.00 (United States Dollar One Hundred) from 31st August 2016 to 13th October 2016 between 0830hrs and 1330hrs on all working days to Ministry of Finance and Treasury.</p> <p>Note that interested parties can also take part in the bidding process after remitting the requested payment to the below mentioned bank account or making the payment directly to the Ministry of Finance and Treasury, Maldives.</p> <p>Intermediary Bank Name: Federal Reserve Bank of New York New York, N.Y 10045 U.S.A SWIFT Code: FRNYUS33</p> <p>Beneficiary Bank's Account number with Intermediary bank : 021084830 Beneficiary Bank Name: Maldives Monetary Authority, Male', Maldives SWIFT Code: MMAUMVMV</p> <p>Beneficiary Account Number: 125 Beneficiary Account Name: Ministry of Finance&amp; Treasury</p> <p>Please do inform us as soon as you initiate the payment.</p>
9	Does Performance Guarantee (BG) need to be provided at time of bid?	Performance guarantee table Section 3 "Functional Guarantee of the Proposed Facilities" are required to complete only with the Average Yield (kWh/kWp) of PV system per island. The bidders are required to include HOMER and/or PVsyst simulation to calculate the Average Yield.
10	What validity period?	Validity period of what? Question not clear.



11	Is there any extension of Tender Submission date expected or possible?	Tender submission date is extended to 26th October 2016
12	Table 3: The capacity of PV system of Ha-Alif Atoll summary of hybrid systems is 2326kWp, but the total capacity of PV system for 14 islands is 2800kWp, please clear which figure is final one	The 2326 kWp is the correct capacity of PV system of Ha-Alif Atoll as per this tender. The value 2800 kWp is the maximum possible can be installed in the available roof space.
13	In A-08 of Table 3, the Diesel proposed for Hybrid is "120 (existing), 200 (existing), 236 (existing)", But in "Figure 33: Filladhoo Island Conceptual design of the hybrid PV system", the diesel generator is 150, 200, 236, please clarify which one is correct?	Only the new generators are required to consider for the bidding purposes. The section 4 Price Schedules BOQ is the BOQ listing for this project. A-08 of Table 3 showing the correct capacity of the three existing generators (120 kW, 200 kW, 236 kW). Section 6.0 Figure 24 has wrong information. There is no new generators for this island which is reflected in Section 4 BOQ. Bidder should follow the BOQ in section 4.
14	In A-11 of Table 3, the Diesel proposed for Hybrid is " 70 (new), 80 (existing), 160 (existing)", But in "Figure 33: Filladhoo Island Conceptual design of the hybrid PV system", the diesel generator is 70(new),120(existing),160(existing)?please clarify which one is correct?	Only the new generators are required to consider for the bidding purposes. The section 4 Price Schedules BOQ is the BOQ listing for this project. A-11 of Table 3 showing the correct capacity of the generators (70 kW (new), 80 kW (existing), 160 kW (existing)). Section 6.0 Figure 33 has wrong information. Bidder should follow the BOQ in section 4.
15	In A-12 of Table 3, the Discarded Diesel GS is "50, 50", and the Existing Diesel GS is "50,50,90,160", but in Table 69: Maarandhoo Island Diesel generators currently installed, there is only "250, 50, 160", please clarify the actual quantity and type of Discarded Diesel GS and Existing Diesel generators?	Only the new generators are required to consider for the bidding purposes. The section 4 Price Schedules BOQ is the BOQ listing for this project. A-12 of Table 3 showing the correct capacity of the generators (60 kW (new), 90 kW (existing), 160 kW (existing)). Section 6.0 Figure 36 has correct information. Bidder should follow the BOQ in section 4.



16	In A-13 of Table 3, the Existing Diesel GS is "32,58,150", but at table 76: Thakandhoo Island Diesel generators currently installed diesel generators are "58,150,32,68"; the Diesel Proposed for Hybrid is "60,70,58", but in Figure 39: Thakandhoo Island Conceptual design of the hybrid PV system, there is "60,70,68", please clarify which is the Existing Diesel GS, and which is for the hybrid system?	Only the new generators are required to consider for the bidding purposes. The section 4 Price Schedules BOQ is the BOQ listing for this project. A-13 of Table 3 showing the correct capacity of the generators (60 kW (new), 70 kW (new), 58 kW (existing). Section 6.0 Figure 39 has wrong information. Bidder should follow the BOQ in section 4.
17	In the bid documents, the service life of color steel tile on the roof mostly is above 10 years. In general, there need to be changed of new color steel tile and then could be installed solar module. So, does this scope of work include the change of steel roof or not? If not, who will be charge of this job?	The replacement of roof tin is not in the scope of this project. However, the winning bidder can arrange site visit and recommend any required replacement of roof tin if necessary
18	Please show us the kmz documents for every island	kmz documents are not available
19	Please supply the layout drawing of diesel generators in powerhouse of every island	Layout drawing of diesel generators are not available
20	Please supply the type of existing diesels and controllers of each island	The new sync panel for all generators including the existing generators are in the scope of this project
21	Please supply the sing-line layout drawing (include DB) for each island	Grid SLD for each island already provided with the drawings
22	Requested to extend bid submission date by 2-4wks	Tender submission date is extended to 25th October 2016
23	About the drawings in the folder (Grid Upgrade) A-6 Hoarafushi Grid SLD Proposed.pdf A-10 Dhidhdhoo Grid SLD Existing.pdf It is hard to see the words in the drawings. Could you provide a more clear drawing	The pages now broken down to Page1 and page 2. Please find attached.
24	For the A-10 Island, there is only an existing drawing. But there are no proposed drawings for this island. There is no upgrade for cables show in the drawing	For A-10 the grid is upgraded to MV. There is no grid upgrade except to connect the PV sites to Substation 1 and 2. Please follow the section 4 Price Schedules BOQ which is the BOQ listing for this project. The SLD for Substation 1 and 2 are attached
25	For the cable model, there is 185mm <sup>2</sup> and 180mm <sup>2</sup> . So is this 180 a mistake? But there is no 180mm <sup>2</sup> cable.	Please follow the section 4 Price Schedules BOQ which is the BOQ listing for this project. The cable size 185sq.mm is the correct size.



26	About the drawings of the Powerhouse SLD The drawings has not shown all the connect point for the PV	Connection Cubicles for RE incoming are shown for those islands when PV is directly connected to the power house.
27	About the documents Section 6.0 In Table 3: Ha-Alif Atoll summary of hybrid systems, the pv size data cannot match the total capacity of the island below. So which capacity should be correct?	The 2326 kWp is the correct capacity of PV system of Ha-Alif Atoll as per this tender. The higher value of PV size data is the maximum possible that can be installed in the available roof space.
28	For the data of the island, the data for Buildings and roofs is not complete. In the data of the A15 Island, in the table the ground pv system has not mentioned in the table. But in the Table 95, there is powerhouse ground information. Do the A15 island that need to install the ground PV system	Table 95 is just showing the possible ground mount PV location. The roof mount PV locations are sufficient, as such there is no ground mount PV site for this island. Table 93 is showing the Roof top locations for this island
29	About the inverter part TUV is the standard of the Euro. UL is the standard of the USA. In the market, there is only a few products that can meet both TUV and UL. Which standard should we follow?	It is stated TUV or equivalent. UL is considered equivalent
30	About the diesel generator The new installed generator need to replace the current existing diesel generator.	Fenaka will help in removal of existing old genset, and also will provide storage/transport of old set. (Upon removal bidder dont have to worry about old set)
31	Can we use the existing fuel tank for the new diesel generator?	All new generator should come with new fuel tank
32	Please clarify which cable lengths is correct: In section 4, Schedule of Rates and Prices, for THURAAKUNU Island, 4c*35mm2 cable length is 20m, while in the drawing "Thuraaku Grid SLD Proposed", the abovementioned length is 40m.	In section 4, Schedule of Rates and Prices, for THURAAKUNU Island, 4c*35mm2 cable length should be 40m
33	Please clarify which cable length is correct: In drawing "for VASHAFARU Island," the cable length in the table is not corresponding to the cable length shown in the SLD. And the cable length is also not corresponding to the schedule of rates and prices in section 4.	The cable lengths are correct in Section 4, Schedule of Rates and Prices. SLD table has old information. Updated Grid Upgrade SLD attached.
34	The cable length given in drawing "Baarah Grid SLD Proposed" is not corresponding to that in the schedule of rates and prices of section 4.	The cable lengths are correct in Section 4, Schedule of Rates and Prices. SLD table has old information. Updated Grid Upgrade SLD attached.
35	Please clarify the difference between parameters and numbers of feedings given in drawing "Powerhouse SLD" and that given in section 6.1 part 8.	Power house SLD is the indicative drawing given for the bidders.



36	In part 8.3.4, section 6.1, it says 'In Addition, for the islands with MV transmission line, the bidder shall provide the supply, Installation, testing and commissioning of all works related to modification of existing low voltage distribution boards in 11/0.4kV substations for connection of proposed PV plant in line with approved design.' Is it possible for us to access necessary information about abovementioned 11/0.4 SS, like designing reports, drawings, or other related archives?	This is exactly same as providing Connection Cubicles for RE incoming (Power House) when PV is directly connected to the power house.
37	In chapter 2.8.2.3, section 6.0, it says 'currently the power house is in a temporary location, new power house planned to be built within next one or two years.' Please confirm whether the construction of this new power house is included in the scope of work.	not included in the scope
38	In chapter 6.4, section 6.1, it says 'Efficiency: at least 95% at full power.' Does the efficiency of 95% cover the whole lifespan of BCPS, or just a certain period?	Battery inverter specified efficiency should be within the specified range for the complete lifespan, just like any other inverter.
39	We request to extend the submission time to November 16th	Tender submission date is extended to 25th October 2016
40	Please specify the deadline for clarification of this project.	until 6th of October 2016
41	SECTION 2 BID DATA SHEET: On the board lacks the specifications of many ITB that instead are set out in the tender documents. This means that such statements are not to be considered?	Question not clear. Section 2 contents Bid data sheet that are required for this tender.
42	BID BOND validity must be 180 +28 days from the expiration date of the tender (10.16.2016)?	yes
43	The BID BOND can be issued by a foreign bank which has a correspondent bank in the Maldives?	yes
44	SECTION 3 in section 2.4.1 requires a requirement for similar work completed during the past three years, amounting to at least two of USD 4,000,000 each contract. SECTION 4 FORM in the EXP 1, this requirement is indicated in USD 2.5 million per contract What is the right amount? What is the right requirement? In SECTION 3 in 2.4.2 are required 7 requirements while to SECTION 4 - FORM EXP 2, these requirements are only 4. Which requirements are needed? The requirement on Li-Ion battery is strictly necessary to cover or we could cover it with other type of batteries?	section 4, Form EXP – 1: Contracts of Similar Size and Nature. The project value should be 4m (same as Section 3, 2.41. Section 4, Form EXP - 2: Experience in Key Activities Form is the same as in Section 3, 2.4.2. But it is in consolidated format.
45	In the technical documentation are missing the minimum requirements relating to guarantees required for each type of material provided (modules, inverters, etc.), see SECTION 3, paragraph 1.3.4.	Section 3, 1.3.4 is the functional guarantee requirement for the PV plant. Bidder should provide PV system simulation for this.
46	The form of the FUNC FORM SECTION 4 must be completed without indicating years' guarantee but only the power and producibility?	Section 4, Form FUNC only required to fill up the yearly average PV Yield (kWh/kWp)
47	The documentation in the Italian language to be attached to the tender (financial statements, certificates, etc.) should only be translated, or must be endorsed by the Embassy of Maldives in Italy?	it should be in English



48	The tender documentation downloaded from the Ministry's website are missing the tender references: issued on: invitation for: Memo no: ..... date:	All required data is provided with the tender document.
49	Where can retrieve an official document containing these indications?	All required data is provided with the tender document.
50	we ask to obtain an extension of at least one month on the expiry of the tender.	Tender submission date is extended to 26th October 2016

