بسم الله الرحمن الرحيم

Ministry of Finance and Treasury
Ameenee Magu, Male', Republic of Maldives

ފައިނޭންސް ޚާތާ ޓްރެޜަރީ ޚާތާ
ދާރުއްލަތަ، ފިލާ، ދިވެހިރާއްޖެ

MINUTES OF PRE-BID MEETING

ނަންބަރ Project No:	**TES/2016/G-007**
ތާރީޚް Issued Date:	**August 4, 2016**
ޕްރޮޖެކްޓް Project:	**Design, Supply, Installation and Maintenance of renewable energy hybrid power plants in HaaDhaalu Atoll – Maldives**
ސަފްޙާ ތަކެއް No. of Pages: -12	

Please include this minutes when submitting the proposal

- Please find the Pre-bid Minutes attached herewith.

ނަން **Name: Ahmed Mujuthaba**	ސޮއި **Signature:**

MINISTRY OF FINANCE AND TREASURY
Male' Republic of Maldives

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بسم الله الرحمن الرحيم

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 HaaDhaalu Atoll – Maldives

MINUTES OF MEETING

Date of Meeting: August 1, 2016 at 1300 hours
Location: Ministry of Finance and Treasury
Project Number: TES/2016/G-007
IFB Number: (IUL) 13-K1/13/2016/128
Subject: Pre- Bid Minutes

AGENDA:

1. Opening and Welcome
2. Procurement Process
3. Scope of Work – Hybrid systems & grid upgrade
4. Final question round
5. Closure

Salient detail of the pre-bid meeting:

- All bidders are reminded that an inconsistency exists in the notice. The deadline for submission of requests for clarifications should read MONDAY 15th August 2016, which is in line with the Section 1 of the tender documents.

Item	Question	Response
1	Can several references be bundled to meet the criteria of USD 4 million for the 2 project references?	No. Each project reference has to be at least USD 4 million completed in the last three years.
2	Is it allowed that required references to meet the criteria 2 references of USD 4 million be covered with hydro projects?	No. The references should be for photovoltaic or hybrid system power plants only of similar size, complexity, methods as described in Section 6 of the tender documents.

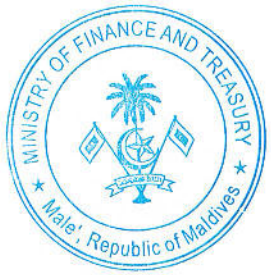
MINISTRY OF FINANCE AND TREASURY
Male' Republic of Maldives

3	Will it be sufficient to show an average annual turnover of USD 19 million?	No. All qualification criteria are minimum criteria and should be met. A bidder not meeting one or more of the criteria will be disqualified.
4	Is the Contractor also carrying the responsibility of repairing existing diesel generators if any technical issue is noticed?	The Contractor should report the issue to the Employer and the Utility FENAKA, but it is not the responsibility of the Contractor taking corrective maintenance measures. The Contractor is however fully responsible for the new diesel generator that are installed.
5	The invitation to tender does not mention the place to pay the registration fee	Email should be sent to the Ministry of Finance and Treasury to get the bank details to make the payment.
6	Is an extension of bid deadline possible?	At the moment it is too early to decide extending the deadline for submission of bids.
7	Is it acceptable to use the financial references of the mother company?	Financial references have to be from the Bidder. References from the mother company are not accepted.
8	Is it acceptable to use the experience of a sister company?	Project references should be from the Bidder and not from a sister company. The sister company may be included in a JV.
9	Are SPVs allowed to bid?	Yes. The bank guarantee has to be provided in the name of the JV/SPV. In addition: the SPV should be able to show financial references of the last three years and the required experience in projects and key activities as per Section 3 of the tender documents. The partners in the SPV should all be jointly and severally liable for the implementation of the project.
10	Who has the responsibility to providing the council approvals to use the roof structure of public buildings?	The Employer will arrange these approvals.
11	The specifications to connect the battery to the powerhouses are missing in the drawings. How to connect them to the LVDB?	Yes the battery should be connected to a dedicated feeder on the LVDB of each powerhouse. An amendment will be provided.
12	Where should PV inverter be installed (which buildings / rooms)?	Precision will be provided in a separate addendum regarding which PV inverters can be installed in existing rooms and which PV inverters will need to be installed in new buildings to be built.
13	Is the connection to the centralized SCADA needed?	Not needed for this phase. An amendment will be provided.

14	Are import duties applicable?	The delivery condition is CIP in accordance with Incoterms, which covers delivery up to the final destination at the respective islands. The import taxes and duties will be paid by the Ministry of Environment and Energy. The Contractor has to handle the paperwork. Contractors should take note that goods can only be cleared at three locations in Maldives. The Bidders are reminded that Contractors need to register in the Maldives to be able to work. Certain taxes and duties are applicable. No exemptions are applicable at the moment. The Bidder should check with the Internal Revenue Authority.
15	Who is responsible for the storage of equipment?	The responsibility lies in the hand of the Contractor
16	How long will it take before clarifications are received after the 15th of August?	It is the intention to provide the answers by end of the week (18th of August). Note that potential amendments first have to pass EIB for comments.
17	How should we deal with the disposal of waste? Should it be brought out of the country?	Waste disposal is the responsibility of the Contractor. No need to bring the waste outside of the country. Complement of answer: the replaced diesel generators remain the property of FENAKA and will not need to be dismantled or sent to waste disposal.
18	The modification of DBs box is not precise.	- Modification cable termination of DB is needed in case that cable size increase - Whole DB has to be replaced in case PV is connected (or if cable cross-section is ≥120mm^2)
19	Should an interface to internet be provided?	Each hybrid system shall be connected to the internet for remote monitoring purpose. Where existing internet connection in the powerhouse is available, the PCMS of the new hybrid system should be connected there. Otherwise, the Contractor shall provide an internet connection in the name of FENAKA.

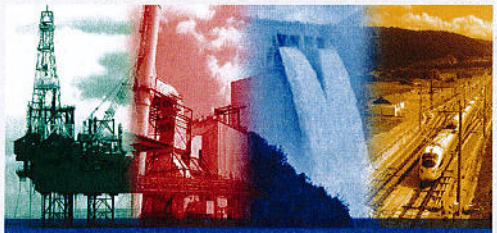
Enclosure:

1. Copy of Presentation
2. Register of Attendees



Preparing Outer Islands for Sustainable Energy Development (POISED)

Bid Clarification Meeting – Tender ICB: TES/2016/G-007



ENGINEERING EXCELLENCE

Ministry of Environment and Energy, Malé, 01.08.2016

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

Agenda

1. Welcome & Opening
2. Procurement Process
3. Scope of Work - Hybrid systems & grid upgrade
4. Final question round
5. Closure

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

1. Opening

Opening

- Sign Register of Attendance
- Minutes sent to all Attendees and Registered Buyers of Bidding Documents
- Purpose of Pre-Bid Meeting
  - Provide explanation/clarification on the project/bidding documents
  - All answers provided today will be confirmed in writing in the minutes
  - All clarifications provided today are for information only
  - Only simple questions can be clarified today. Other questions will be answered through the minutes.
  - No amendments will be agreed upon today
- After today all correspondence should be sent to:
  - tender@finance.gov.mv, fathimath.rishfa@finance.gov.mv
- Any other way of contact may result in disqualification
- Please mute mobile phones during the Meeting

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Bidding Documents

- Financed by European Investment Bank
- Bidding Documents similar to Asian Development Bank
  - Extended Eligibility
  - Covenant of Integrity
- Bidding Documents can be downloaded from www.finance.gov.mv (5 parts)
- Only Bids from Registered Buyers will be considered for Evaluation; USD100.-
- Two Envelope Procedure
  - Envelope 1: Technical Bid + Qualification Documents (1 original, 2 copies, 1 CD)
  - Envelope 2: Price Bid (1 original, 2 copies)

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Planning

- Notice published: 12th July 2016
- Pre-Bid Meeting: 1st August 2016, 13:00h
- Deadline for Submission of Requests for Clarification: MONDAY 15TH AUGUST 2016, 13:00h
- Deadline for Submission of Bids: 5th September 2016, 13:00h at Ministry of Finance and Treasury
- Opening Envelope 1: 5th September 2016, 13:00h at Ministry of Finance and Treasury
- Opening Envelope 2: approx. 1 week after notice is given to those bidders who have passed the first evaluation (technically compliant and qualified)
- Bid validity: 180 days; 4th March 2017 (subject to extension of bidding period)
- Validity of Bid Security: 180 + 28 days; 1st April 2017 (subject to extension of bidding period); USD240,000.-

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J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 1 and Section 2

- Section 1 and Section 2 to be read together
- Alternative bids are not permitted
- Alternatives to time schedule are not permitted
- Alternative technical solutions are not permitted
- Bid security in the form of a bank guarantee (no bid securing declaration)
- Authorization confirmed by Public Notary
- Language of the bids should be English; documents in another language translated by a registered translator
- Electronic bidding is not permitted
- Any freely convertible currency is allowed; for evaluation purposes converted into USD at the rate published by ECB 14 days prior to the bid submission date
- Margin of preference is not applied
- No price adjustment during the implementation of the contract

MINISTRY OF FINANCE AND TREASURY
Malé, Republic of Maldives

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 3 (1)

- Technical evaluation
  - Mandatory to submit compliance sheets (Section 4); major non-compliance will be rejected
  - Bids with alternative technical solutions will be rejected
  - Quantifiable minor deviations and omissions will be converted into monetary terms which shall be added to the bid price during the financial evaluation
  - Bids with alternative time schedule will be rejected
  - Costs for functional guarantee will be calculated as per formulae and added to the bid price during the financial evaluation
  - Manufacturers have to provide the Manufacturers Authorization Form

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 3 (2)

- Qualification criteria - mandatory to meet the criteria !!!
  - Eligibility (see also Section 5)
    - Nationality: all nationalities are permitted by EIB
    - No Conflict of Interest of bidder or proposed engineers
    - Ineligibility: bidders or countries sanctioned by UN
    - MV Government Owned Enterprises: only when they are financially independent
  - Pending Litigation and arbitration
    - Not more than 50% of net worth
    - For all partners

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 3 (3)

- Financial situation - audited financial reports of last three years of all partners
  - Financial Performance
    - ✓ Net worth should be positive in the last year
    - ✓ For all partners
  - Average Annual turnover over last three years
    - ✓ Minimum USD 20 million all partners combined
    - ✓ One partner at least 40%
    - ✓ Other partners at least 25%
  - Financial resources
    - ✓ All partners must meet their own contractual commitments
    - ✓ Requirement USD1.5 million all partners combined
    - ✓ One partner at least 60%
    - ✓ Other partners at least 25%

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2. Procurement Process

Section 3 (4)

- Experience of the Bidder: Similar contracts combined
  - Two contracts in last three years, value at least USD 4 million
- Key activities per partner
  - 2 projects PV plants at least 800kWp, completed
  - 2 projects PV/Diesel/Hybrid systems at least 100kWp PV and at least 50kWh battery, completed
  - 1 project Lithium-Ion battery at least 50kWh, completed
  - 2 projects Diesel generator and control system, completed
  - 1 project O&M services for PV/Diesel/Hybrid systems at least 100kWp PV and at least 50kWh battery, completed
  - 1 project O&M services for Diesel power plant, completed
  - 2 projects LV distribution grid with 40km LV cabling each, completed

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2. Procurement Process

Section 3 (5)

- Subcontractors and Manufacturers are allowed for:
  - PV modules manufacturer
  - PV string inverter manufacturer
  - Lithium-Ion manufacturer
  - Hybrid system controller manufacturer
  - Diesel generator manufacturer
  - LV cable manufacturer
  - LV distribution boards and boxes manufacturer
  - Civil works subcontractor
- Manufacturers have to provide the Manufacturers Authorization Form

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 3 (6)

- Financial evaluation
  - Price and Discount from Letter of Price Bid
  - Bid price has to be on "single responsibility basis" and CIP delivery condition (delivered final destination) including 6% service tax applicable under Maldives Tax Regulation; note that there are only three locations where goods can be cleared from customs
  - Price schedules will be checked for arithmetic errors
  - Costs of minor deviations or omissions will be added
  - Discount will be applied
  - Costs for functional guarantees will be added for evaluation purposes
    - Battery lifetime
    - Diesel generator specific consumption
  - Bids will be ranked

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 3 (7)

- Functional guarantees
- Battery lifetime guarantee:
  - 4000 cycles at 80% of Depth of Discharge (DOD) at 25°C (End of Life 80%). Official statement of the manufacturer is required.
  - for each cycle above the defined minimum requirement, an adjustment of 100$US/cycle will be reduced to the bid price for evaluation purposes
- Diesel generator specific consumption : incentive for low consumption generators
  - Average specific consumption below the maximum requirement (average for 25%, 50%, 75% and 100% of load) will result in a reduction of the bid price according to the formula provided in the tender
  - Performance will be checked during commissioning. Failure to meet guaranteed performance will result in penalties as per defined in Section 9

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Section 4

- Bidding Forms: ALL forms must be submitted

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

2. Procurement Process

Questions

- Questions on the procurement process?

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Scope of work

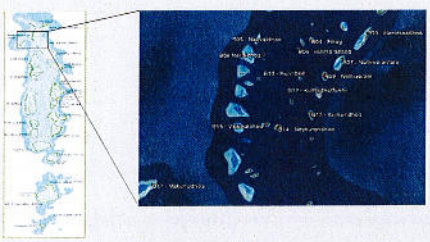
- Section 6, Chapter 1:
- Implementation of PV / battery / diesel generator hybrid systems and grid upgrade on 13 islands:
  - Site assessment
  - Development, detailed design, engineering, coordination of subcontractors, permitting, procurement, manufacturing, factory testing, supply of all equipment, logistic, erection, construction, commissioning and performance testing of the systems
  - Training of employers personnel / capacity building
  - HSE
  - Support to O&M during the 1 year of Defect Liability Period

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Project Location – Haa Dhaalu Atoll

- Section 6, Chapter 2:
  - 13 island in Haa Dhaalu Atoll



J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Hybrid systems – Overview

- Section 6, Chapter 2:

Island	System Type	Size PV (STC)	Battery size @ 1C	New Diesel capacity to be installed (PRP @25°C)
B03 - Hanimaadhoo	Type B	330 kWp	210kWh	350 kW
B04 - Finey	Type C	80 kWp	60kWh	2 gensets 100 kW, 60 kW
B05 - Naivaadhoo	Type B	70 kWp	45 kWh	100 kW
B06 - Hirimaradhoo	Type C	50 kWp	40 kWh	-
B07 - Nolhivaranfaru	Type B	190 kWp	130 kWh	125 kW
B08 - Nellaidhoo	Type B	130 kWp	85 kWh	125 kW
B09 - Nolhivaram	Type B	180 kWp	120 kWh	125 kW
B10 - Kurinbee	Type B	80 kWp	50 kWh	50 kW
B12 - Kulhudhuffushi	Type B	800 kWp	520 kWh	1000 kW
B13 - Kumundhoo	Type B	100 kWp	70 kWh	2 gensets 125 kW, 80kW
B14 - Neyruendhoo	Type B	80 kWp	50 kWh	2 gensets 125 kW, 80kW
B15 - Vaikaradhoo	Type B	70 kWp	45 kWh	100 kW
B17 - Makunudhoo	Type B	110 kWp	70 kWh	125 kW
TOTAL	-	2,270 kWp	1,495 kWh	2,670kW

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Hybrid system Types

- Section 6, Chapter 2:
- Type B islands:
  - PV / Diesel / Grid support Li-ion battery system
  - Diesel generator forms the grid and provides all ancillary system functions
  - Short term power battery (Li-ion, up to 2C allowed)
- Type C islands:
  - PV / Diesel / Grid forming Li-ion battery system
  - @ daytime: PV / Grid forming battery system provides 100% of the load
  - @ night time: Battery discharge to minimum SOC → takeover by diesel generator

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Basis Information - Design

- Section 6, Chapter 2:
- Basis information for each island presenting:
  - Expected load profile for year 2022 (for information only, no sizing simulation expected)
  - Expected average daily consumption and peak load for the year 2022 (for information only, no sizing simulation expected)
  - Currently installed diesel generators and those to be replaced
  - Overview of installation locations / roofs to be used
  - PV Inverters shall be installed in existing building as much as possible
  - Overview of the grid upgrade to be performed

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Basis Information - Design

- Section 6, Chapter 2:
- Overview of installation locations / roofs provided: size, slope, max. PV power per roof (estimation)
- Only roofs from selected public buildings (school, universities, mosque, council, power house etc.)
- The investigation of the suitability of the proposed roofs to install the PV generators remains the responsibility of the Contractor

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Technical Specifications – overview

- Section 6, Chapter 3:
- Technical Specifications:
  - PV power plant
  - Battery energy storage system
  - Diesel power plant
  - Distribution grid
  - Civil and mechanical
  - Power plant control and monitoring system
  - Utility capability

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Technical Specifications – overview

- Section 6, Chapter 3:
- Technical Specifications:
  - Commissioning and on site acceptance test
  - Documentation
  - Training program
  - O&M requirements during defect liability period
  - Spare parts
  - Others

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

Technical Specifications – grid upgrade

- Replacement of Main LVDB at PH on 12 Islands
- Cable list provided (Cu/XLPE/SWA/PVC)
- Replacement of DBs provided (in case of higher cable cross-section or PV interconnection)
- Modification of DBs provided (in case cable termination not suitable)
- Drawings provided:
  - Network Drawings
  - Conceptual schematic drawings
  - Power House Single line diagram
  - Typical Equipment drawing (Distribution Boxes)
- It is the responsibility of the Contractor to verify the correctness of the design and to develop the route drawing for the cables
- PV shall be connected to nearest DB, to the powerhouse or nearby substation according to the most efficient design.

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

- **Technical Specifications – additional important requirements**
  - Hybrid system control system must be efficient but also flexible to allow FENAKA to easily change all control parameters
  - Automatization of the control system of the Diesel power plant is part of the scope for 12 islands (currently manual operation)
  - All selected Equipment and Material shall meet prevailing environment conditions, especially for corrosion protection issues
  - The contractor´s design, plans, calculation will be subjected to the approval of the Employer/Engineer before construction

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

- **Technical Specifications (Chapters 4-9)**
  - Section 6, Chapter 4: Drawings
  - Section 6, Chapter 5: Supplementary information: KMZ files of roofs, Centralized SCADA signal list
  - Section 6, Chapter 6: Certificates
  - Section 6, Chapter 7: Change orders
  - Section 6, Chapter 8: Personnel requirements
  - Section 6, Chapter 9: Equipment requirements

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

3. Scope of Work - Hybrid systems & grid upgrade

- **Questions**
  - Questions on the Hybrid systems or on Grid upgrade?

J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

4. Final round of question

- **Questions**
  - Remaining Questions?

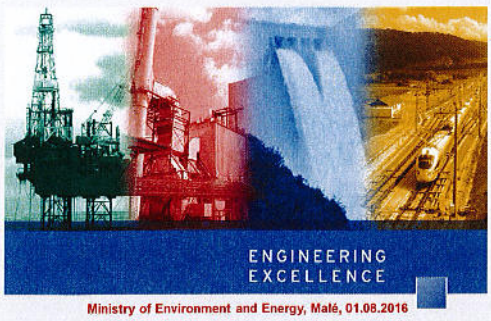
J431 – POISED – Maldives – Pre-Bid Meeting, Phase 2a

5. Closure

- **Closure**
  - Sign Register of Attendance
  - Minutes sent to all Attendees and Registered Buyers of Bidding Documents
  - After today all correspondence should be sent to:
    - tender@finance.gov.mv, fathimath.rishfa@finance.gov.mv
  - Any other way of contact may result in disqualification

Project: J431 – Preparing Outer Islands for Sustainable Energy Development (POISED)

Thank you for your attention!



Ministry of Environment and Energy, Malé, 01.08.2016

Finance and Treasury
Republic of Maldives

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ދިވެހިރާއްޖެ

Pre-bid Attendence Sheet

Project Number	: TES/2016/G-007	: ޕްރޮޖެކްޓް ނަންބަރ
Project Name	: **Design, Supply, Installation and Maintenance of renewable energy hybrid power plants in HaaDhaalu Atoll – Maldives**	: ޕްރޮޖެކްޓްގެ ނަން
Client / Employer	: Ministry of Environment and Energy	: ކްލަޔަންޓް
Date & Time	: Monday, August 1, 2016 1300 Hrs	: ތާރީޚާ ގަޑި

#	Name of Company	Country	E-mail Address	Contact number	Representative	Signature
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6	Swimsal Gmbh Austria					
7	IESS					
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MINISTRY OF FINANCE AND TREASURY
Republic of Maldives

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31						

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Client : Mr. Ahmed Ali - Ministry of Environment and Energy : ކްލައިންޓް

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