Section 3 - Evaluation and Qualification Criteria

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# Evaluation

## Technical Evaluation

In addition to the criteria listed in ITB 34.1 (a) – (b), other relevant factors are as follows:

If the Bidder´s offer has deviations to the Employer´s requirements, they shall be listed and described using the corresponding Form in the Section 4, List of non-compliance. The Employer shall examine the technical aspects of the non-compliance, in particular to confirm that non-compliance does not affect the functional of the Facilities as described in Section 6. In case the functional requirements are no longer met, the non-compliance will be considered a major deviation and the bid may be rejected.

Evaluation of the Bidder’s Technical Proposal will include an assessment of the Bidder’s technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6.0 and 6.1 (Employer’s Requirements).

Non-compliance with equipment and personnel requirements described in Section 6 (Employer’s Requirements) shall not normally be a ground for bid rejection and such non-compliance will be subject to clarification during bid evaluation and rectification prior to contract award.

## Alternative Technical Solutions

Alternative technical solutions are not accepted.

## Economic Evaluation

Adjustments in price that result from the procedures outlined below shall be added, for purposes of comparative evaluation only, to arrive at an “Evaluated Bid Price.” Bid prices quoted by Bidders shall remain unaltered.

### Quantifiable Deviations and Omissions

Quantifiable Deviations and Omissions from the contractual obligations: the evaluation shall be based on the evaluated cost of fulfilling the contract in compliance with all contractual obligations under this Bidding Document.

### Time Schedule

Time to complete the plant and services from the effective date specified in Article 3 of the Contract Agreement for determining the time for completion of pre-commissioning activities is: 252 days. No credit will be given for earlier completion. Bids offering a completion date beyond the maximum designated period shall be rejected.

### Operating and Maintenance Costs

As per Bidder´s offer.

### Functional Guarantees of the Facilities

The aggregate average performance requirements for each island hybrid PV-genset power plant is stated in the Specification section 6.0 chapters Yield and Fuel Savings Summary for each islands. The design of the equipment and systems of the Plant shall be based on achieving the performance of the PV plant as below:

Yield Summary:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Island** | **PV Power kWp** | **Average Yield (kWh/kWp)** |
| 1 | A-01 Thuraakunu | 100 | 1,605.84 |
| 2 | A-02 Uligamu | 126 | 1,573.60 |
| 3 | A-05 Molhadhoo | 60.00 | 1,623.09 |
| 4 | A-06 Hoarafushi | 330.00 | 1,596.9 |
| 5 | A-07 Ihavandhoo | 320.00 | 1,568.59 |
| 6 | A-08 Kelaa | 200.00 | 1,565.87 |
| 7 | A-09 Vashafaru | 120.00 | 1,612.78 |
| 8 | A-10 Dhidhdhoo | 246.00 | 1,606.23 |
| 9 | A-11 Filladhoo | 140.00 | 1,608.29 |
| 10 | A-12 Maarandhoo | 142.00 | 1,569.09 |
| 11 | A-13 Thakandhoo | 91.00 | 1,595.25 |
| 12 | A-14 Utheemu | 150.00 | 1,616.07 |
| 13 | A-15 Muraidhoo | 139.00 | 1,558.79 |
| 14 | A-16 Baarah | 162.00 | 1,581.12 |

The capacity factor for all islands, as given from Homer software, is 17.90

Fuel Savings Summary:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Island** | **Fuel consumption Base Case - Only Diesel - (L/year)** | **Fuel consumption Proposed Hybrid System (L/year)** | **Fuel savings (L/year)** | **Fuel reduction (%)** | **Total energy production - PV and Gensets –per fuel consumption (kWh/L)** |
| 1 | A-01 Thuraakunu | 166,243 | 114,072 | 52,171 | 31.4 | 4.355 |
| 2 | A-02 Uligamu | 142,152 | 73,916 | 68,236 | 48 | 5,5 |
| 3 | A-05 Molhadhoo | 83,629 | 43,575 | 40,054 | 47.9 | 4.94 |
| 4 | A-06 Hoarafushi | 846,254 | 615,891 | 230,363 | 27.2 | 4.25 |
| 5 | A-07 Ihavandhoo | 848,430 | 599,777 | 248,653 | 29.3 | 4.4 |
| 6 | A-08 Kelaa | 381,175 | 290,530 | 90,645 | 23.8 | 4.35 |
| 7 | A-09 Vashafaru | 137,580 | 81,779 | 55,801 | 40.5 | 5.09 |
| 8 | A-10 Dhidhdhoo | 1,538,906 | 1,076,611 | 462,295 | 30 | 4 |
| 9 | A-11 Filladhoo | 215,304 | 126,406 | 88,898 | 41.3 | 4,77 |
| 10 | A-12 Maarandhoo | 231,839 | 137,409 | 94,430 | 40.7 | 4.68 |
| 11 | A-13 Thakandhoo | 163,669 | 68,741 | 94,928 | 42 | 5.04 |
| 12 | A-14 Utheemu | 183,552 | 108,571 | 74,981 | 40.8 | 5.17 |
| 13 | A-15 Muraidhoo | 147,371 | 72,790 | 74,581 | 50.6 | 5.65 |
| 14 | A-16 Baarah | 364,043 | 206,429 | 157,614 | 43 | 4.34 |

The figures on the above table were obtained for simulated irradiance levels and load conditions using the software Homer. Real figures will depend on actual operating conditions like the irradiance level and load conditions.

### Work, Services, Facilities, etc., to be provided by the Employer

Where bids include the undertaking of work or the provision of services or facilities by the Employer in excess of the provisions allowed for in the Bidding Document, the Employer shall assess the costs of such additional work, services and/or facilities during the duration of the contract. Such costs shall be added to the bid price for evaluation.

### Specific Additional Criteria

Not applicable.

### Domestic Preference

Not applicable.

## Multiple Contracts

Not applicable.

# Qualification

It is the legal entity or entities comprising the Bidder, and not the Bidder’s parent companies, subsidiaries, or affiliates, that must satisfy the qualification criteria described below.

## Eligibility

| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| --- | --- | --- | --- | --- | --- |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |

### Nationality

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nationality in accordance with ITB Subclause 4.2. | must meet requirement | must meet requirement | must meet requirement | not applicable | Forms  ELI - 1; ELI - 2  with attachments |

### Conflict of Interest

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No conflicts of interest in accordance with ITB Subclause 4.3. | must meet requirement | must meet requirement | must meet requirement | not applicable | Letter of Technical Bid |

### Eligibility

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Not having been declared ineligible by ADB, as described in ITB Subclause 4.4. | must meet requirement | must meet requirement | must meet requirement | not applicable | Letter of Technical Bid |

### Government-Owned Enterprise

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Bidder required to meet conditions of ITB Subclause 4.5. | must meet requirement | must meet requirement | must meet requirement | not applicable | Forms ELI - 1; ELI - 2  with attachments |

### United Nations Eligibility

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Not having been excluded by an act of compliance with a UN Security Council resolution in accordance with ITB Subclause 4.7. | must meet requirement | must meet requirement | must meet requirement | not applicable | Letter of Technical Bid |

## Pending Litigation and Arbitration

### Pending Litigation and Arbitration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each  Partner** | **One Partner** |
| All pending litigation and arbitration, if any, shall be treated as resolved against the Bidder and so shall in total not represent more than fifty (50) percent of the Bidder’s net worth calculated as the difference between total assets and total liabilities. | must meet requirement by itself or as partner to past or existing Joint Venture | not applicable | must meet requirement by itself or as partner to past or existing Joint Venture | not applicable | Form LIT - 1 |

## Financial Situation

### Historical Financial Performance

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| Submission of audited financial statements or, if not required by the law of the Bidder’s country, other financial statements acceptable to the Employer, for the last three (3) years to demonstrate the current soundness of the Bidder’s financial position. As a minimum, the Bidder’s net worth for the last year calculated as the difference between total assets and total liabilities should be positive. | must meet requirement | not applicable | must meet requirement | not applicable | Form FIN - 1 with attachments |

### Average Annual Turnover

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| Minimum average annual turnover of $ 20,000,000.00 calculated as total certified payments received for contracts in progress or completed, within the last three (3) years. | must meet requirement | must meet requirement | must meet  twenty five percent (25%)  of the requirement | must meet  forty percent (40%)  of the requirement | Form FIN - 2 |

### Financial Resources

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| The Bidder must demonstrate that it has the financial resources to meet: |  |  |  |  |  |
| 1. its current contract commitments, as defined in FIN-4 (Total Financial Requirements for Current Contract Commitments), plus | must meet requirement | not applicable | must meet requirement for its own contractual commitments | not applicable | Form FIN - 4 |
| 1. the requirements for the Subject Contract of $ 1,500,000.00 | must meet requirement | must meet requirement | must meet  twenty five percent (25%) (A) | must meet  sixty percent (60%) (B) | Form FIN – 3 and Form FIN - 4 |

## Bidder’s Experience

### Contracts of Similar Size and Nature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| Participation in at least two contracts that have been successfully or substantially completed within the last 3years and that are similar to the proposed contract, where the value of the Bidder’s participation exceeds  $ 4,000,000.00 per contract. The similarity of the Bidder’s participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6 (Employer’s Requirements). | must meet requirement | must meet requirement as follows:  Either one partner must meet requirement Or  any two partners must each demonstrate one (1) successfully or substantially completed contract of similar size and nature | not applicable | not applicable | Form EXP - 1 |

### Experience in Key Activities

*(Must be complied with by the Bidder. In case of a Joint Venture Bidder, at least one of the partners must have experience in the key activity. If the activity can be subcontracted, the requirement must be specified in criterion 2.5 of Section 3.)*

| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| --- | --- | --- | --- | --- | --- |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| For the above or other contracts executed during the period stipulated in 2.4.1 above, a minimum experience in the following key activities: | must meet  requirements | not applicable | not applicable |  | Form EXP - 2 |
| Design, supply, installation, supervision, commissioning, O&M of PV power plants ≥ 800kWp – at least 2 completed projects |  |  |  | must meet  requirements |  |
| Design, supply, installation, supervision, commissioning, O&M of PV/Diesel/Battery hybrid systems.  Minimum size of PV: 100kWp  Minimum size of battery: 50 kWh  – at least 2 completed projects |  |  |  | must meet  requirements |  |
| Design, supply, implementation, commissioning of Lithium-ion battery systems ≥50 kWh |  |  |  | must meet  requirements |  |
| Design, supply, implementation, commissioning, O&M of Diesel generator and diesel generator control systems for automatic power plant control  – at least 2 completed projects |  |  |  | must meet  requirements |  |
| O&M services for PV/Diesel/Battery hybrid systems :  Minimum size of PV: 100kWp  Minimum size of battery: 50 kWh  – at least 1 completed projects |  |  |  | must meet  requirements |  |
| O&M of Diesel power plants :  – at least 1 completed projects |  |  |  | must meet  requirements |  |
| Design, supply, implementation, commissioning, of LV distribution grid  – at least 2 completed projects of at least 10km LV cabling each for a distribution grid. |  |  |  | must meet  requirements |  |

## Subcontractors and Manufacturers

Subcontractors or Manufacturers for the following major items of plant and services must meet the following minimum criteria, herein listed for that item. Failure to comply with this requirement will result in rejection of the subcontractor but not the Bidder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of Item** | **Minimum Criteria to be met** | **Documents**  **Submission Requirements** |
| 1 | PV module manufacturer | * Must be in the relevant manufacturing business for the last five (5) years * Must have shipped at least fifty (50) MWp outside of manufacturer´s country in 2015 * Selected products for the project must have at least two (2) years of reliable operation with an aggregated capacity of at least fifty (50) MWp outside manufacturer´s country | Form EXP-3 |
| 2 | PV string inverter manufacturer | * Must be in the relevant manufacturing business for the last five (5) years * Selected products for the project must have been in reliable operation in hybrid systems for at least two (2) years |
| 3 | Lithium-ion battery manufacturer | * Must be in the relevant manufacturing business for the last five (5) years |
| 4 | Hybrid system controller | * Must be in the relevant manufacturing business for the last five (5) years * Selected products for the project must have been in reliable operation in hybrid systems for at least two (2) years |
| 5 | Diesel generators | * Must be in the relevant manufacturing business for the last ten (10) years * Selected products for the project must have at least five (5) years of reliable operation |
| 6 | LV Cables | * Must be in the relevant manufacturing business for the last five (5) years * Selected cables for the project must have been in operation for at least five (5) years of reliable operation * Selected cables must be type tested as per relevant IEC/BS standards |
| 7 | LV Distribution boards, Boxes | * Must be in the relevant manufacturing business for the last five (5) years * Selected products for the project must have been in operation for at least five (5) years of reliable operation * Selected products must be type tested as per relevant IEC/BS standards |
| 8 | Civil works | Must be in the relevant business for the last five (5) years. |

In the case of a Bidder who offers to supply and install major items of plant under the contract, which the Bidder did not manufacture or otherwise produce, the Bidder shall provide the Manufacturer’s authorization, using the form provided in Section 4 (Bidding Forms), showing that the Bidder has been duly authorized by the Manufacturer or producer of the related plant and equipment or component to supply and install that item in the Employer’s country. Failure to submit the Manufacturer’s authorization at the first instance is considered a minor, nonmaterial omission and shall be subject to clarification. However, failure of the Bidder to submit the omitted authorization shall lead to rejection of the Subcontractor or Manufacturer of the item under evaluation in accordance with ITB 35.4.