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 successfully implement the contract considering its proposed site organization, method statement, mobilization, and construction schedule (to be described by the Bidder in sufficient detail to demonstrate the adequacy of its work methods, scheduling, and material sourcing) including the extent to which they are presented in a consistent manner and comply with requirements stipulated in Section 6 (Employer’s Requirements) without material deviation, reservation, or omission.

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 permitted.

## Economic Evaluation

In addition to the criteria listed in ITB 39.2 I (a)–(f), other relevant factors are as follows:

The economic evaluation shall be conducted NOT by the comparison of Bid Price but with the Lifecycle Unit Cost (LUC), as calculated with the following formula.

Where:

|  |  |  |
| --- | --- | --- |
| LUC | [USD/kWh] | Lifecycle unit cost in USD/kWh |
| CBESS | [kWh] | Overall capacity of BESS specified in specification submitted by the bidder |
| Nc | [ - ] | Number of battery cycle tested and guaranteed from the test report with capacity above SoC% |
| SoC | % | State of Charge, corresponding to remaining usable capacity of battery in % in kWh against initial capacity of battery in kWh, guaranteed after battery is charged and discharged Nc number of times |
| Nbr | [ - ] | The number of times of required battery replacement assuming the battery is fully charged and discharged 6000 times in 15 years.  Nbr = 6000/Nc |
| PBESS | [USD] | The total price of “BESS and related equipment” in USD, put by the bidder including cost of Installation of BESS and related equipment and BESS housing |
| Pbid | [USD] | Total bid price in USD |

Nc and SoC shall be evaluated by the test report submitted by the Bidder in Technical Bid.



Figure: Concept of SoC and Nc

# Personnel Requirements:

Bidder must demonstrate that it has personnel who meet the following requirements:

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Position** | **Total Work Experience [years]** | **Experience In Similar Work [years]** |
| 1 | Project Manager (Electrical Engineer) | 15 | 7 |
| 2 | EMS Specialist | 10 | 5 |
| 3 | BESS Specialist | 10 | 5 |
| 4 | Electrical Engineer | 10 | 5 |
| 5 | Environment, Health and Safety Expert related to electrical and BESS | 10 | 5 |
| 6 | Construction Engineer (civil and cabling) | 7 | 3 |

Undertaking to be signed by each individual that their services will be available for the assignment. No replacement or exchange of personnel will be allowed without written permission from the employer. Any specialist/ expert not available for a personal reason during the time of implement, has to be replaced by the bidder with a person of equivalent or higher qualification and experience only after approval from the employer.

### 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.

Pursuant to ITB 32.3, the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids.

### 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: 360 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

Scope of work for operation and maintenance is elaborated in Section 6 of the bidding document and price schedule is given in Section 4.

### Functional Guarantees of the Facilities

The minimum and/or maximum requirements stated in the Specification for functional guarantees required in the Specification are:

|  |  |
| --- | --- |
| Functional Guarantee | Minimum and/or Maximum Requirements *[as required in the Specification]* |
| 1. Battery lifecycle guarantee | - Cycle of lithium-ion battery cells applied in BESS shall be a minimum **of 6,000 cycles, at DOD (depth of discharge) 80% or above** at rated power, and the remaining battery capacity (SOC, State of Charge) shall be equivalent or above **80%** at the end of the above life cycle.  - A copy of the manufacturer's test report opened to the public, submitted to an external official agency, or published in a reputable international journal shall be submitted in Technical Bid |
| 2. Discharge speed | - The Discharge C-rate of BESS shall be equivalent to 1C or **above**.  - Copy of the manufacturer’s test report or specification opened to the public, submitted to an external official agency, or published in a reputable international journal shall be submitted in Technical Bid |
| 3. Safety | - Safety test has been conducted and no burst nor fire shall be observed in the test according to IEC 62619, IEC62660-2, or UL1973  - Copy of certificate from certification body shall be submitted in Technical Bid |

### 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

2.1.6.1 Environmental, Health and Safety Management Plan (EHSMP)

Any bid not accompanied by the EHSMP may be rejected by the Employer as non-responsive. If a Bidder submits an EHSMP that is not commensurate with the risks and impacts of the proposed works and activities in the bidding document, the Employer shall issue a clarification to request for further information from the Bidder. The Bidder must submit the requested information within 5 number of days of receiving such a request. Failure to provide a satisfactory response to the request for further information within the prescribed period of receiving such a request may cause the rejection of the Bid.

2.1.6.2 Sustainable Procurement

No specific requirement.

### 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 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 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 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 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 4.8. | must meet requirement | must meet requirement | must meet requirement | not applicable | Letter of Technical Bid |

## Historical contract non-performanCe

### History of Nonperforming Contracts

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Non-performance of a contracta did not occur as a result of contractor default since 1 January 2020 | Must meet requirement | Must meet requirement | Must meet requirementb | Not applicable | Form CON-1 |

a *Non-performance, as decided by the Employer, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.*

b *This requirement also applies to contracts executed by the Bidder as Joint Venture partner.*

### Suspension Based on Execution of Bid-Securing Declaration

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.6. | Must meet requirement | Must meet requirement | Must meet requirement | Not applicable | Letter of Technical Bid |

### Pending Litigation and Arbitration

Pending litigation and arbitration criterion shall not apply.

### Declaration: Environmental, and Health and Safety Past Performance

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** |  | **Compliance Requirements** | | | **Submission Requirements** |
| **Requirement** | **Single**  **Entity** | **All Partners Combined** | **Each**  **Partner** | **One Partner** |  |
| Declare any contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, health and safety contractual obligations in the past five years. | Must make the declaration. If the bidder proposes Specialist Sub-contractor/s to meet EQC 3.4.2, those Specialist Sub-contractor/s must also make the declaration | Not  applicable | Each partner must make the declaration. If the bidder proposes Specialist Sub-contractor/s to meet EQC 3.4.2, those Specialist Sub-contractor/s must also make the declaration. | Not  applicable | Form CON-2 |

## 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 $ 47,250,000 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

If the bid evaluation process and the decision for the award of the Contract takes more than 1 year from the date of bid submission, Bidders may be asked to resubmit their current contract commitments and latest information on financial resources supported by latest audited accounts or audited financial statements, or if not required by the law of the Bidder’s country, other financial statements acceptable to the Employer, and the Bidders’ financial capacity, will be reassessed on this basis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | | | **Submission Requirements** |
| **All Partners Combined** | **Each Partner** | **One Partner** |
| For Single Entities:  The Bidder must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of $7,875,000 | Must meet requirement | Not applicable | Not applicable | Not applicable | Form FIN – 3 and Form FIN - 4 |
| For Joint Ventures:   1. One partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of $3,150,000 from the total requirement for the Subject Contract.   AND | Not applicable | Not applicable | Not applicable | Must meet requirement | Form FIN – 3 and Form FIN - 4 |
| 1. Each partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of $1,968,750 from the total requirement for the Subject Contract.   AND | Not applicable | Not applicable | Must meet requirement | Not applicable | Form FIN – 3 and Form FIN - 4 |
| 1. The Joint Venture must demonstrate that the combined financial resources of all partners defined in FIN - 3, less all the partners’ total financial obligations for the current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of $7,875,000 | Not applicable | Must meet requirement | Not applicable | Not applicable | 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 as a contractor, Joint Venture partner, or Subcontractor, in at least two contracts that have been satisfactorily and substantially completed within the last 5 years and that are similar to the proposed contract, where the value of the Bidder’s participation under each contract exceeds  $ 25,200,000. The similarity of the Bidder’s participation shall be based on:  1. Physical Size of work  2. Nature of Work  3. Complexity of work  4. Methods  5. Technology or other characteristics as described in Section 6 (Employer`s Requirements). | | Must meet requirement | | Must meet requirement as follows:  (i) Either one partner must meet requirement Or  (ii) any two partners must each demonstrate one (1) satisfactorily and substantially completed contract of similar size and nature | | Not applicablec | | Not applicable | | Form EXP – 1d | |

*a  For contracts under which the Bidder participated as a Joint Venture partner or Subcontractor, only the Bidder’s share, by value, shall be considered to meet this requirement.*

*b For contracts implemented by a Joint Venture contractor, if the Bidder comprises the same Joint Venture, the 'Single Entity‘ requirements will apply.*

*c In case of complex works, the Employer may require each partner to demonstrate one satisfactorily and substantially completed contract of similar nature where such partner’s value of participation exceeds 25% of the subject contract value.*

*d In addition to the submission requirement Form EXP – 1, the bidder shall provide the following supporting documents:*

*1. Signed Contract Agreement, and*

*2. Contract Completion Certificate or Performance Certificate,*

*in sufficient detail to verify the contract name, value and completion time. If the documents are other than in English, an accurate certified translation of these documents in English shall be provided.*

### Experience in Key Activities

3.4.2(a) Must be complied with by the Bidder. In case of a Joint Venture Bidder, the Bidder or at least one of the partners must meet the requirement in the key activity. For contracts under which the Bidder participated as a Joint Venture partner, only the Bidder’s designated scope of works under the contracts shall be considered to meet this requirement.

Table A

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity** | **Joint Venture** | **Submission Requirements** |
| For the above or other contracts executed during the period stipulated in 3.4.1, a minimum experience in the following key activities: | Must meet requirement | One partner must meet requirement | Form EXP – 2a |
| 1.Design, supply, installation, supervision, commissioning of Grid Scale Battery Energy Storage Systems (BESS) and Energy Management Systems (EMS) (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand):  Minimum size of battery: 500 kWh  – at least 2 completed projects | Must meet requirement | One partner must meet requirement |  |
| 2 Design, supply, implementation, commissioning of Lithium-ion battery systems ≥500 kWh  – at least 1 completed project | Must meet requirement | One partner must meet requirement |  |
| 3 O&M services for Grid Connected BESS systems and energy management system (to manage grid stability in case of variation in PV output and/or excess PV power production during periods of high radiation and low demand):  Minimum size of battery: 500 kWh  – at least 1 completed projects | Must meet requirement | One partner must meet requirement |  |

*a Submission requirements: Form EXP – 2 shall be supported by documents such as Signed Contract Agreement, Taking-Over Certificate or Contract Completion Certificate indicating the contract name, value, completion date (or percentage of substantial completion), activities performed by Joint Venture partners, and other relevant details sufficient to demonstrate compliance with the requirements.*

3.4.2(b) The Employer accepts any of the following activities to be subcontracted. They may be complied with by the Bidder or by its proposed specialist subcontractor.

If the key activity is to be undertaken by a Specialist Subcontractor, the Employer shall require evidence of the subcontracting agreement from the Bidder.

Table B

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity or its Specialist Subcontractors** | **Joint Venture or its Specialist Subcontractors** | **Submission Requirements** |
| For the above or other contracts executed during the period stipulated in 3.4.1, a minimum experience in the following key activities: | One must meet requirement | One must meet requirement | Form EXP – 2a |
| Lithium-ion battery manufacturer | One must meet requirement  Must be in the relevant manufacturing business within the last five (5) years  - Must have shipped at least Thirty (30) MWh outside of manufacturer´s country in 2021  - 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 | One must meet requirement  Must be in the relevant manufacturing business within the last five (5) years  - Must have shipped at least Thirty (30) MWh outside of manufacturer´s country in 2021  - 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 |  |
| Hybrid system controller / Energy Management System | One must meet requirement  Must be in the relevant manufacturing business within 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  - Selected products for the project shall be industrial grade products suitable for utility environment. | One must meet requirement  Must be in the relevant manufacturing business within 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  - Selected products for the project shall be industrial grade products suitable for utility environment. |  |

*a Submission requirements: Form EXP – 2 shall be supported by documents such as Signed Contract Agreement, Taking-Over Certificate or Contract Completion Certificate indicating the contract name, value, completion date (or percentage of substantial completion), activities performed by Joint Venture partners, and other relevant details sufficient to demonstrate compliance with the requirements.*

### Specific Experience in Managing Environmental, Health and Safety Aspect

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity or Its Specialist Subcontractors** | **Joint Venture or Its Specialist Subcontractors** | **Submission Requirements** |
| For the contracts in 3.4.1 and 3.4.2 above and/or any other contracts [substantially completed and under implementation] as prime contractor, Joint Venture partner, or Subcontractor between 1st January 2020 and Bid submission deadline, experience in managing EHS risks and impacts in the following aspects:   * The bidder must have experience in conducting environmental assessments and developing management plans to address potential environmental impacts of the project. * The bidder must have experience in developing and implementing health and safety plans and programs to protect workers, communities, and other stakeholders from potential hazards associated with the project. | Must meet requirements | One member must meet requirements | Form EXP – 3 |

## Organizational Environmental, Health and Safety System

### Environmental, Health and Safety Certification

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity or Its Specialist Subcontractors** | **Joint Venture or Its Specialist Subcontractors** | **Submission Requirements** |
| Availability of a valid ISO certification or internationally recognized equivalent (equivalency to be demonstrated by the Bidder), and applicable to the worksite: ISO 14001: Environmental Management System ISO 45001 Occupational Health and Safety (OH&S) Management System ISO 9001 Quality Management System | Must meet requirements | One member must meet requirements | Form EXP – 4 |

### Environmental, Health and Safety Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity or Its Specialist Subcontractors** | **Joint Venture or Its Specialist Subcontractors** | **Submission Requirements** |
| Availability of in-house policies and procedures for ESHS management:  For example:   1. Existence of an Ethics Charter. 2. Existence of a system for monitoring compliance with EHS commitments for the Bidder’s Subcontractors and all its partners. 3. Existence of official company procedures for the management of the following:  * ISO 9001 Quality Management System * ISO 14001Environmental Management System * ISO 45001 Occupational Health and Safety Management System | Must meet requirements | One member must meet requirements | Form EXP – 5 |

### Environmental, Health and Safety Dedicated Personnel

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Compliance Requirements** | | **Documents** |
| **Requirement** | **Single Entity or Its Specialist Subcontractors** | **Joint Venture or Its Specialist Subcontractors** | **Submission Requirements** |
| Availability of in-house personnel dedicated to EHS issues:   * Environmental Specialist * Health and Safety Specialist | Must meet requirements | One member must meet requirements | Form EXP – 6 |

## Subcontractors

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of Item** | **Minimum Criteria to be met** | **Documents**  **Submission Requirements** |
| 1 | Installation, Operation and maintenance Lithium-ion battery | Must have at least 2 years of relevant experience in installation, operation and maintenance of lithium ion based large battery systems. | Form EXP-7 |
| 2 | Installation, operation and maintenance of Hybrid system controller / Energy Management System | Must have at least 2 years of relevant experience in installation, operation and maintenance of PV-BESS-Diesel hybrid systems. |
| 3 | Civil works | Must be in the relevant business for the last five (5) years with similar experience |

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.