Section 3: Evaluation and Qualification Criteria

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# 1. Evaluation

# 1.1 Technical Evaluation

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

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.

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

# 1.2 Alternative Technical Solutions

Not Applicable.

# 1.3 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 a weighted average of the Life Cycle Unit Costs (LUC), LUCave, i.e. with the LUCs of the Wind Turbine Array/System (see 1.3.1) and the Battery Energy Storage System (see 1.3.2), calculated as follows:

***LUCave*** = 70% x *LUCWT* + 30% x *LUCBESS*

### Wind Turbine System’s Life Cycle Unit Cost, ***LUCWT***

Where:

|  |  |  |
| --- | --- | --- |
| LUC | [USD/kWh] | Lifecycle unit cost in USD/kWh |
| Pbid,WT | [USD] | Total bid price in USD of the Wind Turbine System (installed) together with Systems integration (with the BESS and the main microgrid) but excluding pre-development costs |
| O&MWT | [USD] | Non-Personnel Equipment-related (i.e. WT + non-BESS modules) Operations and Maintenance Costs (e.g. spares, overhaul, parts replacement, preventive interventions, anticipated repair services, protective / mitigation strategies) over the design lifetime of the WT System  Note: Bidder must explicitly declare their proposed system’s O&M value and must support the declared anticipated O&M value with documentation – including all assumptions and their justifications. |
| EnergyWT | [kWh] | Energy Yield over the design lifetime of the WT System  Note: Bidder must explicitly declare their calculated Energy Yield value and must support the declaration/calculation with substantial documentation – including efficiencies, capacity factors, and all other pertinent assumptions (e.g. technology-based performance) and their justifications. The wind resource to be used in the Energy Yield Calculation is given as part of the Bid documents. |

### Battery’s Life Cycle Unit Cost, ***LUCBESS***

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 | [ - ] | Number of times of required battery replacement in 15 years, assuming the battery is fully charged and discharged once a day.  When Nc > 6000 times, Nbr=0.  When Nc ≦6000, 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 for the BESS |

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

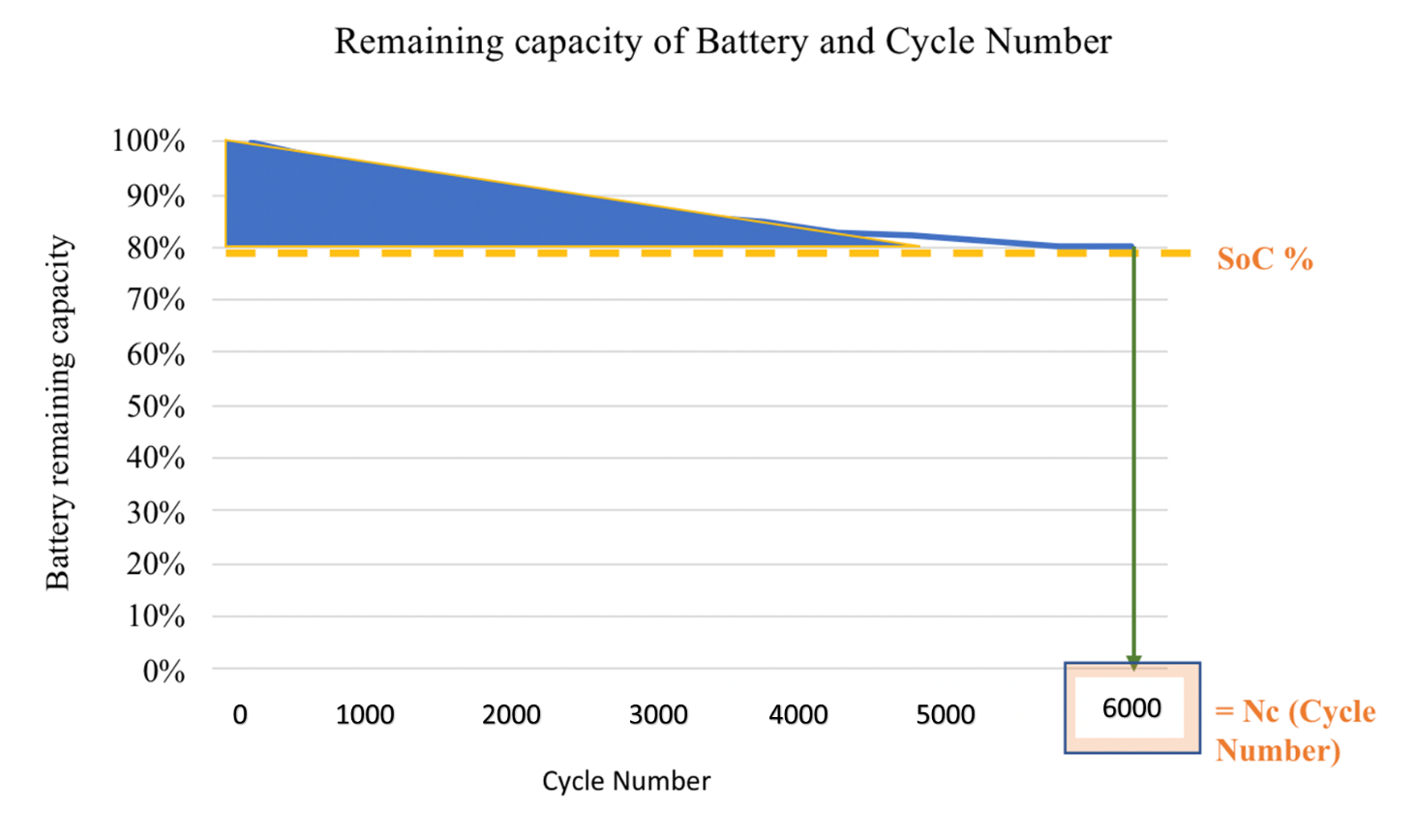


Figure: Concept of SoC and Nc

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.

# 1.3.1 Quantifiable Deviations and Omissions

Pursuant to ITB 33.3, 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.

# 1.3.2 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: 365 days. The contractor is required to provide O&M support services for a further period of 1 year (while meeting EMP requirements). Therefore, the total contract period will be 730 days. No credit will be given for earlier completion. Bids offering a completion date beyond the maximum designated period shall be rejected.

# 1.3.3 Operation and Maintenance (O&M) Costs

Not Applicable.

# 1.3.4 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 *[as required in the Specification, e.g., performance, efficiency, consumption, etc.]* | Minimum and/or Maximum Requirements *[as required in the Specification]* |
| 1. Battery lifetime guarantee | 6000 cycles at 80% of Depth of Discharge (DOD) at 25°C (End of Life 80%). Official statement of the manufacturer is required. |
| 2. Noise Limit Guarantee | Wind power plant Noise Levels must adhere to LAeq90 < 35 dB at 10m height for wind speeds ≤10 m/s specifically for 3 receptor locations: i.e. (1) at the existing power plant, (2) Fenaka Office, (3) Residential area . Official statement of the manufacturer is required (basis of the statement, e.g. noise assessment/studies/tests, should be presented). |

# 1.3.5 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.

# 1.3.6 Specific Additional Criteria

Not Applicable.

**1.3.6.1 Environmental, Health and Safety Management Plan (EHSMP)**

Any bid not accompanied by the EHSMP may be rejected by the Employer as nonresponsive. If a Bidder submits a 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 request for clarification to request for further information from the Bidder. The Bidder must submit the requested information within 14 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.

**1.3.6.2 Sustainable Procurement**

Not Applicable.

# 1.3.7 Domestic Preference

Not Applicable.

# 1.4 Multiple Contracts

Not Applicable.

# 2. Qualification

# 2.1 Eligibility

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

# 2.1.1 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 |

# 2.1.2 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 |

# 2.1.3 ADB 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 |

# 2.1.4 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 |

# 2.1.5 United Nations Eligibility

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Not having been excluded by an act of compliance with a United Nations Security Council resolution in accordance with ITB 4.8. | Must meet requirement | Must meet requirement | Must meet requirement | Not applicable | Letter of Technical Bid |

# 2.2 Historical Contract Nonperformance

**2.2.1 History of Nonperforming Contracts**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nonperformance of a contracta did not occur as a result of contractor default since 1st January 2019. | Must meet requirement | Must meet requirement | Must meet requirementb | Not applicable | Form CON-1 |

a *Nonperformance, as decided by the Employer, shall include all contracts where (a) nonperformance 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. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Nonperformance 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.*

**2.2.2 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 |

**2.2.3 Pending Litigation and Arbitration**

Pending litigation and arbitration criterion **shall not** apply.

**2.2.4 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 2.4.2, 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 2.4.2, those Specialist Sub-contractor/s must also make the declaration. | Not  applicable | Form CON-2 |

# 2.3 Financial Situation

# 2.3.1 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 |

# 2.3.2 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 **USD 6,000,000.00** 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 |

# 2.3.3 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 **USD 750,000.00** | 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 **USD 300,000.00** 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 **USD 187,500.00** 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 **USD 750,000.00** | Not applicable | Must meet requirement | Not applicable | Not applicable | Form FIN – 3 and Form FIN - 4 |

# 2.4 Bidder’s Experience

# 2.4.1 Contracts of Similar Size and Nature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Participation as a contractor, Joint Venture partner, or Subcontractor, in at least two contracts that have been satisfactorily and substantiallycompleted within the last **five (5) years** and that are similar to the proposed contract, where the value of the Bidder’s participation under each contract exceeds **USD 2,400,000.00**. The similarity of the Bidder’s participation shall be based on:a,b  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.*

# 2.4.2 Experience in Key Activities

2.4.2(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 2.4.1, a minimum experience in the following key activities: |  |  |  |
| 1. Pre-development study, design, supply, installation, supervision, commissioning of wind power plants ≥ 100kW – at least 2 completed projects | Must meet requirement | One Partner Must meet requirement | Form EXP – 2a |
| 1. Pre-development study, design, supply, installation, supervision, commissioning of Wind-Battery hybrid systems which include energy management system (to manage grid stability in case of variation in wind output and/or excess wind power production during periods of strong wind and low demand):   Minimum size of Wind: 100kW  Minimum size of Battery: 100kWh  – at least 2 completed projects | Must meet requirement | One Partner Must meet requirement | Form EXP – 2a |
| 1. Design, supply, implementation, commissioning of Lithium-ion battery systems ≥100 kWh 2. – at least 1 completed project | Must meet requirement | One Partner Must meet requirement | Form EXP – 2a |
| 1. O&M services for Wind/Battery hybrid systems which include energy management system (to manage grid stability in case of variation in wind output and/or excess wind power production during periods of strong wind and low demand): 2. Minimum size of Wind: 100kW 3. Minimum size of Battery: 100kWh 4. – at least 1 completed projects | Must meet requirement | One Partner Must meet requirement | Form EXP – 2a |
| 1. Design, supply, implementation, and commissioning, of LV distribution grid 2. – At least 1 completed projects of at least 10km LV cabling for a distribution grid. | Must meet requirement | One Partner Must meet requirement | Form EXP – 2a |

*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.*

# 2.4.3 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 2.4.1 and 2.4.2 above and/or any other contracts [substantially completed and under implementation] as prime contractor, Joint Venture partner, or Subcontractor between 1st January 2019 and Bid submission deadline, experience in managing ES risks and impacts in the following aspects:   1. Undertaking environmental impact assessment (i) of wind turbine, battery storage and underground cabling distribution projects, (ii) following Maldives laws and regulations with registration of consultant under the EIA regulation of Maldives, and (iii) in accordance with the IFC EHS guidelines—general and on wind energy 2. Wind turbine noise modelling using recognized good international industry software 3. Wind turbine shadow flicker assessment using recognized good international industry software 4. Impact assessment for marine and coastal areas including undertaking natural and critical habitat assessment 5. Ecological surveys of coastal, beach and mangrove vegetation, experience of flora and fauna in Maldives or similar environment 6. Bird and bat carcass monitoring for wind turbines following good international industry practice survey methods such as IFC 7. Impact assessment on groundwater from piling works 8. Managing construction works in protected areas, ecologically significant areas, natural habitats, or adjacent to physical cultural resources 9. Managing disturbance to fauna and residential areas in terms of noise and vibration impacts during construction and maintenance 10. Designing wind turbines to minimize noise and shadow flickering or avian risk during operations including use of SCADA, operational noise modes, and shadow flicker modules to control noise and shadow flicker levels 11. Undertaking quantitative risk assessment in relation to blade throw and other failure risks and designing wind turbines to minimize the risk to ALARP 12. Developing and implementing environmental management plans to address potential environmental impacts of the project 13. Management of hazardous waste management, including transboundary waste management movement to address the management of defunct batteries etc. 14. Transportation of oversized or heavy wind turbine components (blades, turbine tower sections, nacelle, and transformers) and cranes including swept path analysis for wind turbine blades 15. Conducting health and safety risk assessment and developing and implementing health and safety management plans to protect workers, communities, and other stakeholders from potential hazards associated with construction, operation and maintenance of the project with specific experience of managing health and safety for wind turbine installation, working at height, and in remote environments 16. Decommissioning and removal of wind turbines at the end of life | Must meet requirements | One member must meet requirements | Form EXP – 3 |

**2.5 Organizational Environmental, Health and Safety System**

**2.5.1 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:  1. ISO 14001: Environmental Management System  2. ISO 45001: Occupational Health and Safety (OH&S) Management System  3. ISO 9001: Quality Management System | Must meet requirements | One member must meet requirements | Form EXP – 4 |

**2.5.2 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:   1. Existence of an Ethics Charter, including commitments to exclude (i) use of forced and child labor, and (ii) sexual exploitation, abuse, harassment. 2. Existence of a system for independent design checks process separate to design team for seismic safety etc. 3. Existence of a system for quality assurance of environmental impact assessment reports produced. 4. Existence of a system for monitoring compliance with EHS commitments for the Bidder, Bidder’s Subcontractors and all its partners. 5. Existence of a system for keeping EHS records (e.g. incidents, grievances, materials consumption, water consumption, waste volumes and disposal routes etc.) related to Bidder and subcontractor activities on-site 6. Existence of a system for ensuring only inducted, trained and qualified workers are on site and undertaking specific roles including of subcontractors and their workers whether formally or informally employed 7. Existence of a system for keeping labor records (e.g. identification, timesheets, pay slips etc.) including of subcontractors and their workers whether formally or informally employed 8. Existence of official company procedures for the management of the following during construction and O&M including of subcontractors:  * Health and Safety on worksites policy, occupational and community health and safety risk assessment, management planning and related guidance * Worker code of conduct and disciplinary systems including for subcontractors and their workers whether formally or informally employed * EHS trainings of local staff/subcontractors/local partners * Community stakeholder engagement * Grievance redressal including for workers and affected local community * Labor management including sanitation and welfare and overnight accommodation * Biodiversity management including invasive species control, wildlife encounter protocol, and ecological supervision and monitoring * Change find procedures (physical cultural resources) * Pollution prevention including emergency response protocols * Solid and hazardous waste management practices including tracking of hazardous waste generation, storage, transport and disposal including transboundary movement * Environmentally safe and sound system for take back and safe disposal [recycling] of defunct or used batteries * Hazardous materials transport, use and storage * Transport management including abnormal loads by sea and land * Erosion and sedimentation practices * Control of infectious and communicable diseases (e.g. dengue) | Must meet requirements | All members with a role in construction, operation and maintenance must meet requirements 1, 4 thru 8  All members with a role in design must meet requirement 2  All members with a role in EIA preparation must meet requirement 3 | Form EXP – 5 |

**2.5.3 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 to provide design input and conduct the EIA:   * EIA coordinator with international experience in wind turbine assessment, the IFC EHS wind energy guidelines and IFI safeguards/equator principles * National impact assessor (registered under the Maldives EIA regulations) * Natural and critical habitat assessment expert with international experience including of IFI safeguards/equator principles * National terrestrial and marine ecologists * Noise assessment and modelling consultant with experience in wind turbine assessment to international good industry practice e.g., ETSU * Shadow flicker assessment and modelling consultant with experience in wind turbine assessment to international good industry practice * Quantitative risk assessor for H&S having experience of wind turbines   Availability of in-house personnel dedicated to EHS issues per the EMP requirements during construction, operation and maintenance works:   * Environmental and Social Manager (Environmental Specialist) * Health and Safety Specialist * Terrestrial Ecologist * EHS supervisor during construction and maintenance works * H&S Steward(s) during construction and maintenance work | Must meet requirements | One member must meet requirements | Form EXP – 6 |

# 2.6 Subcontractors

Subcontractors or Manufacturers 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 rejection of the Subcontractor but not the Bidder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of Item** | **Minimum Criteria to be met** | **Documents**  **Submission Requirements** |
| 1 | Wind turbine manufacturer | * Tier 1 manufacturer only. * Must be in the relevant manufacturing business within the last five (5) years. * Must have shipped at least five hundred (500) kW outside of manufacturer´s country in 2023. * Selected products for the project must have at least two (2) years of reliable operation with an aggregated capacity of at least fifty (5) MWp outside manufacturer´s country. | Form EXP-7 |
| 2 | Hybrid inverter manufacturer | * Must be in the relevant manufacturing business within the last five (5) years. * Selected products for the project must have been in reliable operation for at least two (2) years. |
| 3 | Lithium-ion battery manufacturer | * Must be in the relevant manufacturing business within the last five (5) years. * Must have shipped at least One (1) MWh outside of manufacturer´s country in 2023.   Selected products for the project must have at least two (2) years of reliable operation with an aggregated capacity of at least Five (5) MW outside manufacturer´s country. |
| 4 | Hybrid system controller | * 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. |
| 5 | LV Cables | * Must be in the relevant manufacturing business within 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 and shall meet the local Utility Regulatory Authority requirements. |
| 6 | Generator Synchronizing Panel boards, LV Distribution boards, Boxes | * Must be in the relevant manufacturing business within 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. |
| 7 | Civil works | Must be in the relevant business for the last five (5) years with similar experience. |
| 8 | Environmental impact assessment (lead) | Must be in the relevant business for the last five (5) years with similar experience.  Must have undertaken at least five (5) environmental impact assessments for wind turbines to IFI safeguards/equator principles requirements |  |
| 9 | Environmental impact assessment (national) | Must be in the relevant business for the last five (5) years with similar experience.  Must have undertaken at least five (5) environmental impact assessments in the Maldives |  |

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.