

EXPRESSION OF INTEREST
Pre-feasibility of Wind Resource

Publication date: 10th Sep 2021

Submission date: 14th Oct 2021

Country: Bangladesh

Duration: 5 months + 7 months

Description:

Bangladesh is intending to identify the potential blocks in its offshore regime to develop wind farms. For meeting the above purposes, Power Division, Ministry of Power, Energy and Mineral Resources intends to appoint a Consulting firm to conduct a two-step assessment comprising- (i) a pre-feasibility assessment of off-shore blocks for wind energy potential, and(ii) a detail feasibility study of two sites identified as the prospective blocks based on the findings of the pre-feasibility study and possibility of harnessing electricity. The study will be carried out under Bangladesh Power Sector Development and Capacity Building (BPSDCB) Project of Power Division.

Scope of Work:

The scope of services includes the followings:

During Pre-feasibility Study:

- Review previous studies on “Wind Resource Mapping”,
- Data Collection and Analysis
- Identify potentials Identify potential of each block for wind power generation at Bay of Bengal based on available data.
- Depending on the area identified, recommend the plant capacity based on wind data from established sources.
- Review the available technology in the market and recommend the best technology for the off-shore project
- Recommend the appropriate financing modality and method of implementation of the project
- Recommend the method of power evacuation to mainland from off-shore and the necessary construction of electrical infrastructure along with arrangements required with concerned utilities/PGCB.
- Information dissemination and knowledge sharing

Duration and Location of the Services :

The duration of the Pre-feasibility study is 05 (Five) months, and the duration of Detail feasibility study will be 07 (Seven) months. The location of service will be in Bay of Bengal regime of Bangladesh. There will be two separate contracts for Phase 1 and Phase 2. The second phase of the contract will be signed upon satisfactory completion of the first phase

of the assignment (pre-feasibility study). Both Phase 1 and Phase 2 contracts will be output based.

Requirements:

	Requirements for International Experts	Requirements for National Experts
<u>Wind Energy Expert:</u>	<ul style="list-style-type: none"> - Degree: Bachelors in Renewable - Experience: min. 20 years (5 years in Offshore Wind) 	<ul style="list-style-type: none"> - Degree: Bachelor's in engineering - Experience: min. 15 years
<u>Transmission Expert:</u>	<ul style="list-style-type: none"> - Degree: Bachelor's in electrical or Mechanical - Experience: min. 15 years in power sector (5 years HV & MV transmission) 	<ul style="list-style-type: none"> - Degree: Bachelor's in electrical or Mechanical - Experience: min. 10 years in power sector (5 years HV & MV transmission)
<u>Marine Expert:</u>	<ul style="list-style-type: none"> - Degree: Bachelors in Oceanography or any related subject - Experience: min. 5 years 	Not Required
<u>Civil Engineer:</u>	<ul style="list-style-type: none"> - Degree: Bachelor's in civil engineering - Experience: min. 15 years (5 years in Civil works) 	Not Required
<u>Financial/Economic Analyst:</u>	Not Required	<ul style="list-style-type: none"> - Degree: master's in Economics/Finance/Business Administration - Experience: min. 5 years
<u>Environmental Expert</u>	Not Required	<ul style="list-style-type: none"> - Degree: Master's in Environment related subject - Experience: min. 5 years
<u>Legal and Institutional Expert:</u>	Not Required	<ul style="list-style-type: none"> - Degree: Master's degree in any subject or LLM from

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