

Terms of Reference (TOR)
For
APPOINTMENT OF CONSULTING FIRM
FOR
ASSESSMENT OF BARRIERS TO IMPLEMENT RENEWABLE ENERGY (RE)
PROJECTS AND STANDARDIZED RE BASED TENDER & CONTRACT DOCUMENTS.

1. Background

The vision of the Government of Bangladesh is to provide quality electricity to all by 2021. To fulfill the GOB's vision and objectives of electrification, development of Renewable Energy (RE) resources will play a vital role. The government has taken appropriate measures for generating environment-friendly electricity from RE sources. The Renewable Energy Policy has already been adopted with the target to produce 10% of the total power generation by 2021 from renewable energy sources. Due importance has also been given in the PSMP-2018 for the promotion and development of renewable energy in the country.

Government of Bangladesh has prepared a plan to generate 3100MW of electricity using RE resources from both public and private sector by 2021. To achieve the target Govt. has been implementing renewable energy projects in public and private sector. As a part of initiatives, unsolicited proposal from the private investors to establish solar projects are being considered. But this initiative has not been successful as expected. Bangladesh Power Development Board (BPDB) has issued LOI to 18 companies out of which 7/8 companies have been able to sign the Power Purchase Agreement (PPA) but not a single big project has yet implemented.

1. Hence, Power Division has decided to carry out a study to identify the major barriers behind the implementation of the projects and find possible solutions to overcome the problems. It also intends to prepare a set of standardize security package documents for RE projects. Now Power Cell, Power Division invites proposals from potential firms to undertake the study and find a solution to encourage establishment of RE based projects in an accelerated manner.

2. Objectives of the Study

The main objectives of this assignment are:

- a) Development of RE projects in the country;
- b) Popularize renewable energy based different technologies;
- c) Attract investment in Renewable Energy projects;
- d) Successful implementation of the RE projects.
- e) Achieve target of RE based power generation.

3. Scope of Work

The scopes of works are as follows. The consultants can propose some modifications in the scope of work to meet the objectives of the assignment.

- Review of existing contract documents (PPA, IA etc.) for RE based IPP projects;
- Review the signed contracts with different investors/developers;
- Identify gaps and barriers in the contract documents and security packages for implementation of RE based IPP's;
- Prepare Standard contract documents and security packages for implementation of RE based IPP's;

- Identify reasons and challenges for failure of RE based projects in Bangladesh, recommend solutions to overcome the identified problems;
- Prepare Standard Tender Document for public sector RE based projects under solicited procurement process;
- Prepare format for submission of unsolicited project proposal on RE and develop standard evaluation criteria for unsolicited proposal;
- Analyze the PPA, IA document for RE based project implementation;
- Identify the barriers related to implementation of the RE projects and suggest the suitable solutions.

4. Team Composition & Qualification Requirements for the Key Experts

Consulting services are solicited from experts experienced in RE based projects related policy, guideline preparation and feasibility studies. Besides, Consulting firms should have experience to perform the consultancy services, experience of similar assignments, experience in similar conditions, firm's capability, and availability of appropriate skills among key staff, availability of resources etc. The Proposer is expected to engage the following categories of key experts for the Project and CVs shall be submitted accordingly.

- Renewable Energy /Technical Expert (Team Leader)
- Solar Energy Expert
- Procurement Expert
- Legal and Policy Expert
- Financial/Economic Analyst

The following are the key qualifications required for the above mentioned expert positions:

- **Renewable Energy/Technical Expert (Team Leader):** The Team Leader must have a Bachelor's degree in Engineering or Masters in Renewable Energy or any other relevant subject with minimum of 20 years experience including minimum 10 years of experience in the field of renewable energy technology.
- **Solar Energy Expert:** The Solar Energy Expert must have a Masters degree in Solar/Renewable Energy Technology with B.Sc. degree in Engineering. The expert must have a minimum of 8 years of experience in the field of solar energy, solar plant related study and development of Solar projects.
- **Procurement Expert:** The Procurement Expert must have at least a Master's Degree in Economics, Business or Finance, with demonstrated experience of at least five (05) years in procurement best practice and procurement related activities. S/he should have proven track record of preparing tender document and designing and implementing a bidding and evaluation process that meets applicable standards of fairness and transparency.
- **Legal & Policy Expert:** The legal & Policy expert must have a Masters degree in Law from a recognized university. The expert must have a strong background and experience in Bangladesh law and legislation related to land management, environment and conservation, natural resource management and policy issues etc.. The expert must have a minimum of 5 years of relevant and practical experience.
- **Financial/Economic Analyst:** The financial/economic analyst must have a Masters in Finance/Economics/Business Administration or any relevant subject with a minimum of 5 years of experience in financial/economic analysis.

5. **Evaluation Criteria**

The evaluation of consulting firms will be done according to the categories mentioned below:

- **Age of the firm**
- **Experience of the firm in Bangladesh Power Sector**
- **Experience of firm in similar works**
- **Qualification of Key Professionals**
- **Work Methodology and Plan**

6. **Reporting Requirements and Time Schedule for Deliverables**

- Inception Report within 10 (ten) days of signing of contract
- Draft Final Report within 90 (ninety) days of signing of contract
- Final Report incorporating comment from stakeholders within a week of receipt of comments from Power Cell

7. **Duration**

The duration of this assignment will be 120(one hundred & twenty) days. The selected firm may engage some supporting staff for this assignment.

8. **Facilitation and Reporting**

The Consultant will work under the guidance of Power Cell. The Consultant will also work in close association with the BPDB and all the relevant entities to identify the barriers and solutions for implementation of RE projects.

