

INVITATION FOR BIDS

Solar Development Expert

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Country: India

Description:

ADB's Knowledge Support and Technical Assistance is under implementation to operationalize its cooperation with the International Solar Alliance (ISA) in the Six Developing Member countries – Bangladesh, Bhutan, Nepal, India, Maldives, Sri Lanka. The TA would support the countries in developing Solar project pipeline, innovative financing modalities for mobilization of affordable finance in the sector and facilitating capacity building of the ISA Secretariat.

The Government of Assam, India, has identified the promotion of solar power as a key priority area in its efforts to increase the share of renewable energy in the state's energy mix. In this regard, ADB is seeking the services of a national solar project development expert to assist in developing a comprehensive solar roadmap that will guide the state's efforts to promote the use of solar energy as well as on supporting the solar project/s in Assam.

Scope of Work:

The solar project development expert will support in development of solar roadmap in Assam and solar project/s with PPP modality.

The selected PPP expert will be responsible for the following tasks, among others:

- Conduct a comprehensive review of the current state of solar power in Assam, including an assessment of existing policies, regulations, and institutional arrangements that impact the development of solar power in the state and share with the team.
- Review power demand and supply projections of Assam Power Distribution Company Limited (APDCL) to evaluate how much solar can be used and share with the team
- Undertake review on existing prices for power purchase, potential buyers/sellers, regulatory requirements and processes in Assam
- Identify prospects and challenges for buying and selling of power from other states considering the prices and transmission constraints
- Support international expert in developing a comprehensive roadmap for promoting the use of solar power in Assam, including a detailed analysis of the potential for solar power in the state, identifying key barriers and challenges to the development of solar power in Assam, and recommending strategies for addressing these barriers and challenges. This should include an assessment of the transmission corridors in the state and their capacity for power evacuation.
- Support in identifying potential public-private partnership (PPP) models that can be used to accelerate the development of solar power in Assam, including an analysis of existing PPP frameworks in the state, and recommendations for the design of new PPP models that can effectively leverage private sector investment and expertise.
- Undertake consultation with key stakeholders, and support in designing and organizing workshop to present the draft roadmap, and incorporate comments

- Support government and APDCL to identify potential PPP projects. The Consultant should identify possible locations for setting up solar parks, taking into consideration proximity to load centers, land/water surface availability and prices and other constraints
- Prepare pre-feasibility report for one of the identified locations for implementation which will include site suitability, sizing and connectivity analysis
- Undertake any other activities as required and as requested by ADB, APDCL and ISA.

Requirements:

The following qualifications are required for the PPP expert:

- Advanced degree in engineering, business administration, economics, public policy, or related fields.
- At least 8 years of general experience of which about 6 years should be on technical experience in designing, implementing, and managing solar and other renewable energy projects with various modalities.
- Should have experience in working/supporting regulatory agencies and electricity distribution companies in India
- Demonstrated expertise in the development of renewable energy, particularly solar power.
- Familiarity with the policy and regulatory frameworks governing the energy sector in India, and experience working with government agencies in India.
- Strong analytical and communication skills, with the ability to communicate complex technical concepts to non-technical stakeholders.