

REQUEST FOR EXPRESSION OF INTEREST

Power Sector Specialist in India

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Submission date: 12th May 2023

Country: India

Description of procurement:

The project is aimed at improving energy security, quality of supply, efficiency, and resilience of power sector in Tripura. The project will finance the replacement of aging Rokhia power plant with a highly efficient and state of the art power plant that will reduce greenhouse gas emission through fuel saving, together with investments in the power distribution network to increase generation capacity, efficiency, and resilience of the power sector against climate change and natural disasters. The project will also support to strengthen the institutional capacity and overall business process of the project executing agencies and promote gender equality through pilot testing of gender and socially inclusive workplace practices.

The primary objectives of the project are reduction of Aggregate Technical and Commercial losses, improvement of system capacity, reliability and accessibility, reduction of system operation and maintenance costs, thereby increasing financial viability of distribution business operations and providing improved quality and access to services to sustain economic growth.

Scope of Work:

The scope of the project involves improvement of power distribution system and supply services of TSECL. This includes installation of new and reconductoring of existing 33kV, 11 kV and LT distribution lines, construction of MV underground distribution networks, introduction of High Voltage Distribution (HVDS) systems, renovation of existing 33/11kV substations, establishment of a Transformer Repairing and Testing centre, installation of fault passage Indicators (FPI), Auto-reclosure / Sectionalizers, Ring Main Units for existing distribution lines and installation of 1 Lakh Smart meters with complete AMI system.

The scope of work for the assignment includes:

1. Review of the interventions undertaken for AT&C Loss reduction and suggesting improvements in the master plan developed.
2. Review of existing plan for renovation and modernization of the distribution substations and installation of distribution line equipment and provide inputs to improve on timelines and procedures.
3. Monitor the design and engineering plan for the new or augmented 33KV/11KV/LT lines, including the required equipment and materials.

4. Organize and conduct dedicated review meetings with Implementing Agency, the Utility and some of the desired experts in the sector to assess the gaps in the existing exercise of loss reduction.
5. Review of the assessment plan made by the Implementing Agency for the existing distribution network to identify the feeders that are suitable for HVDS implementation.
6. Provide technical expertise and guidance on the design, engineering, procurement, construction, and testing for network related equipment viz. (but not limited to) metering apparatus, transformers, HVDS systems etc.
7. Monitor the existing metering infrastructure to identify any areas for improvement.
8. Provide inputs to mission leader as required.
9. Develop MIS and Dashboards for the Head of the Utility, State Government and ADB Mission.
10. Suggest/ recommend based best practices of other countries and utilities carrying out similar nature of work.

Eligibility Criteria:

The expert should have an Engineering degree in Electrical or Power Engineering with at least 20 years of relevant experience in power distribution sector especially in areas of loss assessment, monitoring and supervision of roadmaps for operational improvements. Must have previous hand-on working experience in advising Power Utilities, Ministries and Government departments. Experience of working with multi-lateral funding agencies or international finance institute desirable. Previous experience of working in utilities and multiple countries experience in South Asia will be preferred.

For more information about technical details and requirements, please email to info@tenderingprojects.es