



Expression of Interest (EOI)

1. **Name of work:** "Setting up of cumulative 50 MW/ 200 MWh Standalone Battery Energy Storage Systems (BESS) at 33 KV level spread over a number of 33KV Sub-stations in TSECL".

2. **Introduction**

Tripura State Electricity Corporation Limited (TSECL), a Government of Tripura Enterprise, is mandated for plan, develop, own, maintain distribution infrastructure across the State of Tripura. The State's peak demand has reached approximately 378 MW which is projected to grow over 690 MW by 2030 as per 20th EPS. In view of increasing renewable integration and peak demand management requirements, TSECL intends to deploy Battery Energy Storage Systems (BESS) at 33 KV level in distributed form in the State of Tripura.

Key State Parameters:

Capital	Agartala
Area	10,492 sq. km
Population (2024 est.)	~4.16 million
Installed Capacity (2025)	648.68 MW
Peak Demand	378 MW
No. of consumer	9.33 Lacs (approx.)
No. of 33 KV SS i/c MVA capacity	70 nos. & 696.4 MVA

3. **Project Objective**

To support renewable energy integration, enhance grid reliability, and manage peak demand (particularly during 17:30 hrs to 21:30 hrs) with optimized energy portfolio, TSECL proposes installation of 50 MW / 200 MWh Standalone BESS at suitable 33/11 kV substations @ 5MW/20MWH module.

Project Features:

- Total Capacity: 50 MW / 200 MWh distributed over various 33/11 KV SS.
- Voltage Level: 33/11 kV
- Discharge Duration: Maximum 4 hours in peak time during non-solar hours; Minimum 1 hour continuous.
- Peak Management Window: 17:30 hrs to 21:30 hrs
- Project Tenure Options: 12 Years or 15 Years
- Charging Arrangement: Charging will be done during solar hours. Charging power may be provided either by TSECL or to be arranged by the developer.

4. **Scope of EOI**

TSECL invites Expression of Interest from financially sound and technically competent agencies/developers/BESS manufacturers having proven experience in execution/operation & maintenance of similar BESS projects. The agency shall propose suitable implementation models, business structures, and deployment process at strategic locations suitable for BESS



TRIPURA STATE ELECTRICITY CORPORATION LIMITED

(A Govt. of Tripura Enterprise)

operation at 33 KV level. Post EOI appropriate suitable model for implementation will be selected by TSECL and accordingly necessary action will be taken for same.

5. Documents to be Submitted

- I. Name and Address of the Agency
- II. Certificate of Incorporation / Registration Details
- III. PAN & GST Registration Details
- IV. Annual Turnover for last three financial years (Audited Statements)
- V. Details of Blacklisting / Debarment, if any
- VI. Details of Similar BESS Projects executed/operated & maintained.
- VII. Proposed Project Implementation Timeline.
- VIII. Brief Concept Note on Proposed Battery Chemistry/Technology, model, area requirement, implementation mode, Business & Revenue Model.

6. Submission Details

Due date of submission:

Soft copy by : 09/03/2025 upto 5.00 PM

Hardcopy by : 12/03/2025 upto 5.00 PM

Submission address:

General Manager (Technical)
Tripura State Electricity Corporation Limited
Bidyut Bhavan, B.K. Road, Banamalipur
Agartala – 799001, Tripura
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7. Disclaimer

This EOI is issued for information and market assessment purposes only. Issuance of this EOI does not constitute a commitment by TSECL to proceed with tendering. TSECL reserves the right to accept or reject any or all EOIs without assigning any reason.

C. D. M. 25/2-2025
General Manager (Technical)
Tripura State Electricity Corporation Limited