



**ORDER**

**OF**

**WEST BENGAL ELECTRICITY REGULATORY COMMISSION**

**IN**

**CASE NO: OA- 443 / 22-23**

**IN REGARD TO THE APPLICATION SUBMITTED BY THE WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED FOR APPROVAL OF INCURRING CAPITAL EXPENDITURE OF AN ESTIMATED COST OF RS. 8699.50 LAKH FOR IMPLEMENTATION OF NEW TRANSMISSION SCHEME IN TERMS OF REGULATION 2.8.2.3 AND PARAGRAPH 4.1 (VI) OF SCHEDULE – 2 OF THE WEST BENGAL ELECTRICITY REGULATORY COMMISSION (TERMS AND CONDITION OF TARIFF) REGULATIONS, 2011, AS AMENDED.**

**PRESENT:**

**SRI MALLELA VENKATESWARA RAO, CHAIRPERSON**

**SRI PULAK KUMAR TEWARI, MEMBER**

**DATE: 01.08.2023**





In regard to the application submitted by the West Bengal State Electricity Transmission Company Limited (WBSETCL) for approval of incurring Capital Expenditure of an estimated cost Rs. 8699.50 Lakh for implementation of different transmission scheme in terms of regulation 2.8.2.3 and Paragraph 4.1 (vi) of Schedule – 2 of the West Bengal Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2011, as amended.



### FACTS IN BRIEF

- 1.0 The instant petition has been filed by West Bengal State Electricity Transmission Company Limited (in short 'WBSETCL') on 05.01.2023 for the approval of incurring Capital Expenditure for an estimated cost of Rs.8699.50 Lakh for implementation of different transmission scheme along with the Detailed Project Reports (DPR) in terms of regulation 2.8.2.3 and Paragraph 4.1 (vi) of Schedule – 2 of the West Bengal Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2011, as amended from time to time (in short 'WBERC Tariff Regulations'). The Commission has admitted the application and registered in Case No. OA-443/22-23.
- 2.0 In the application, WBSETCL has submitted the brief description of the following scheme:
  - 2.1 **Construction of Kulipur 220/33/11 kV Gas Insulated Substation (GIS) and Associated Transmission System:**
    - 2.1.1 WBSETCL has proposed for construction of new 220/33/11 kV GIS at Kulipur in the district of Paschim Burdwan with 2X50 MVA 220/33 kV Transformers, 4 numbers of 220 kV Feeder Bays, 14 numbers of 33 kV Feeder Bays, 12 numbers of 11 kV Feeder Bays, 2 numbers of 33/0.415 kV 630 kVA Station Service Transformers and 2 numbers of 33 kV Earthing Transformers inclusive of construction of 220 kV Double Circuit (D/C) LILO of STPS-Asansol Transmission Line, instead of once proposed Bakidanga 132/33 kV Sub-Station contemplated in the Approved Plan of 2020-21 to 2024-25, presently discarded due to want of clear ROW. The proposed Kulipur 220/33/11 kV GIS has been contemplated in the Rolling Plan of 2023-24 to 2027-28 (Target Year 2024-25).
    - 2.1.2 The present source of the 4 numbers of existing 33/11 kV Sub-Station in the adjacent areas (Kulipur, Ismile, Niyamatpur and Sodepur) is Asansol 220/132/33 kV Sub-Station in addition to 9 numbers of other existing 33/11 kV Sub-Station. It is expected that the aggregated demands of the above mentioned 33/11 kV Sub-Stations along with 2 numbers of 33 kV Bulk Sub-Station with a load of 70 MVA (approximately), from Asansol 220/132/33 kV Sub-Station, will reach about 220 MVA during 2024-25 as forecasted by WBSEDCL.
    - 2.1.3 After establishment of proposed Kulipur 220/33/11 kV GIS, above 4 numbers 33/11 kV Sub-Station along with 2 numbers of 33 kV Bulk Sub-Station will be fed from this Sub-Station which in turn improve power scenario in this vicinity and reduce system loss to a good extent.
    - 2.1.4 WBSETCL has submitted that the project will revive the distribution system in the area, improve overall redundancy in the system and thus any contingency can be tackled.





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As submitted by WBSETCL, construction of new 220/33 KV GIS at Kuilapur at District Burdwan (West) will add the following benefits:

- a) Improvement in voltage profile, system stability as well as reduction in technical loss in the area.
- b) Additional sale of energy by WBSEDCL in the project command area.
- c) Enhancement of system reliability, reduction in customer interruption frequency index and customer interruption duration index.
- d) Promote socio-economic development in the project area

2.1.5 The proposed Kuilapur 220/33 KV GIS is to be set up on the spare land available within Kuilapur 33/11 kV Sub-Station of WBSEDCL. The project is scheduled to be commissioned in 2024-25.

3.0 The project cost, as submitted by WBSETCL in the DPR, covered under paragraph 2.0 above is tabulated as under:

Sl. No	Description	Amount (Rs lakh)
1	A. Construction of Kuilapur 220/33/11 kV GIS with 4 Nos. 220 kV Feeder Bays, 2X50 MVA 220/33 kV Transformers, 14 nos. 33 kV Feeder Bays, 2X10 MVA 33/11 kV Transformers, 12 nos. 11 kV Outgoing Feeder, 02 nos. 33/0.415 kV 630 KVA Station Service Transformers and 02 nos. 33 kV Earthing Transformers.	6065.95
2	Construction of 220 kV D/C LILO of STPS-Asansol Transmission Line at proposed Kuilapur 220/33/11 kV GIS. (D/C RL = 0.245 Km & M/C RL = 0.691 Km)	1125.19
	Total Cost	7191.14
3	Supervision Charge	719.12
	Total Project Cost	7910.26
4	IDC	789.24
	<b>Project Cost Including IDC</b>	<b>8699.50</b>

4.0 WBSETCL has further submitted the following:

4.1 The projects are proposed to be funded through WBSETCL's Internal Resources (IR) and through domestic borrowings. The equity component (30%) is proposed to be met through Internal Resources (IR) and the loan component (70%) through domestic borrowings from any Financial Institute. The interest during construction (IDC) is worked out with interest rate for the loan @ 9.50% for the domestic funding with a payback period of 9 years 6 months.





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- 4.2 The unit rates for all equipment for transmission lines & substations have been considered from latest cost data as on 23.11.2022 obtained from Procurement Department of WBSETCL and inclusive of all Taxes & Duties. For Cash flow study & IRR calculation, 15 years repayment period including moratorium period of initial 3 years is considered. Life span of the asset is considered 25 years for the Sub-Station assets and 35 years for the Line assets. Power Map of West Bengal present and as on 31.08.2022, schematic diagram, financial calculations, detailed estimate for Sub-station, detailed estimate for Line, Power Flow Study Snapshots, approval of the project, Technical & Administrative Approval Order are enclosed for reference.
- 4.3 The target beneficiary of the projects is WBSEDCL. The projects are in pre-tender engineering stage.
- 5.0 The Commission, after careful analyzing, admitted the application on 24.04.2023 and directed WBSETCL to publish the gist of their application as approved by the Commission in the newspapers and also in the website of WBSETCL as per requirement of regulation 2.8.2.3 of the WBERC Tariff Regulations. WBSETCL accordingly published the gist of the application in (i) The Telegraph (ii) The Times of India (iii) the 'Aajkaal' and (iv) the 'Bartaman' and in their website on 21.05.2023 inviting suggestions and objections on their application within 21 days (including the date of publication) of publication of the notice in Newspaper. No suggestion and objection were received by the Commission within the stipulated time-period.

#### **OBSERVATIONS OF THE COMMISSION**

- 6.0 The Commission observes that, in terms of Regulation 2.8.2.3 of the WBERC Tariff Regulations, approval of the Commission for investment in new transmission project is mandatory. The Commission also observes that the regulation inter-alia specifies approval of the project shall be taken before investment is made in order to minimize the investment risk.
- 7.0 The Commission noted that the project has been considered in the Rolling Plan 2023-24 to 2027-28 submitted by WBSETCL along with their Multi Year Tariff Application for the 8th Control Period for the years 2023 – 24, 2024 – 25 and 2025 – 26, admitted by the Commission in Case No. TP - 99/22 – 23.
- 8.0 Commission observes that the proposed Kuilapur 220/33 kV GIS is to be set up on vacant land within the 33/11 kV Sub-station of WBSEDCL. In terms of regulation 5.11 of the West Bengal





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Electricity Regulatory Commission (Licensing and Condition of License) Regulation, 2013 WBSETCL is required to take prior approval from the Commission before taking over or acquiring by purchase of the land.

9.0 The Commission further observes the following:

The proposed 220/33/11 kV GIS at Kulapur will cater growing load demand in and around Kulapur, Ismile, Niyamatpur and Sodepur in the district Paschim Burdwan and supply adequate, reliable & quality power supply in the vicinity.

### ORDER

10.0 The Commission after consideration of all the facts and the project reports submitted by WBSETCL, accords approval of the investment proposal in terms of regulation 2.8.2.3 of WBERC Tariff Regulations with the details as given below subject to approval of project cost in terms of regulation 2.8.5 of the WBERC Tariff Regulations:

Sl. No	Description	Amount (Rs lakh)
1	A. Construction of Kulapur 220/33/11 kV GIS with 4 Nos. 220 kV feeder bays, 2x50 MVA 220/33/ kV Transformers, 14 nos. 33 kV feeder bays, 2x10 MVA 33/11 KV Transformers, 12 nos. 11 KV outgoing feeders, 02 nos. 33/0.415 KV 630 KVA Station Service Transformers and 02 nos. 33 KV Earthing Transformers.	6065.95
2	Construction of 220 KV D/C LILO of STPS-Asansol Transmission Line at proposed Kulapur 220KV GIS. (D/C RL = 0.245Km & M/C RL = 0.691 Km)	1125.19
	Total Cost	7191.14
3	Supervision Charge	719.12
	Total Project Cost	7910.26
4	IDC	789.24
	<b>Project Cost Including IDC</b>	<b>8699.50</b>

11.0 The Commission also gives the following directions:

- For the purpose of capitalization WBSETCL will have to seek approval of the Commission for the project cost along with actual interest during construction and all actual expenditure incurred or apportioned to the project cost on account of spares, transportation, insurance,





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tax, establishment charges, tools and plants, audit and accounts, maintenance and losses during construction and consultancy charges and also any actual expenditure met out of contingency. WBSETCL is to provide the cost break-up of each scheme showing the actual vis-à-vis estimation included in the total project cost as above.

- (ii) WBSETCL shall ensure proper metering arrangement in line with Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time and arrangement for real time data display at SLDC control room before energization of the sub-station and associated Transmission Systems.
- (iii) On completion of each project WBSETCL shall submit the COD and a benefit analysis of the project separately before the Commission.
- (iv) Original project cost is required to be approved in terms of Regulation 2.8.5 of the WBERC Tariff Regulations. Commission may disallow any excess of project cost on capitalization over approved cost if it finds the justifications furnished are not adequate.
- (v) In case of escalation in project cost in any scheme, WBSETCL shall take due approval from the Commission before capitalization of assets.
- (vi) WBSETCL shall take prior approval from the Commission before taking over or acquiring by purchase of the land at Kulapur 33 kV Sub-station of WBSETCL in terms of regulation 5.11 of the West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulation, 2013.

12.0 The Petition is thus disposed of. Let a copy of the order be served upon WBSETCL.

13.0 A copy of the order shall be posted in the website of the Commission.

**Sd/-**  
**(PULAK KUMAR TEWARI)**  
**MEMBER**

**Sd/-**  
**(MALLELA VENKATESWARA RAO)**  
**CHAIRPERSON**

**Dated: 01.08.2023**

**Sd/-**  
**SECRETARY**