

ORDER

OF THE

# WEST BENGAL ELECTRICITY REGULATORY COMMISSION IN THE MATTER OF

CASE NO. OA- 515/ 24-25

IN-PRINCIPLE APPROVAL FOR CAPITAL EXPENDITURE OF ESTIMATED COST RS. 40687.40 LAKH FOR IMPLEMENTATION OF DIFFERENT NEW TRANSMISSION SCHEME OF WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED.

DATE: 06.11.2025



## **CASE IN BRIEF**

- 1.0 The instant petition has been filed on 28.03.2025 by West Bengal State Electricity Transmission Company Limited (in short 'WBSETCL') for approval of Capital Expenditure of an estimated cost Rs. 40687.40 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 Conditions of Tariff) Regulations, 2011, as amended from time to time (in short 'Tariff Regulations'). The Commission has admitted the application on 09.06.2025 and registered in Case No. OA-515/24-25.
- 2.0 Following New Transmission schemes are included in this petition:

SI. No.	Type of Works	
1.	Construction of 132/33 KV Gas Insulated Substation within the Premises of existing Salt Lake 132/33 KV AIS	
2.	Establishment of 66/33/11 KV Substation at Lolegaon, District- Kalimpong by LILO of Chalsa - Kalimpong 66 KV S/C transmission line at proposed Lolegaon 66 KV Sub-Stn.	
3	Construction of 132/33 KV Gas Insulated Sub-Station at Bagjola, Dist - North 24 Parganas	
4	Establishment of 220/132/33 KV Gas Insulated Sub-Station at Nandanpur District - Bankura and establishment of 220 KV D/C transmission line from proposed BAPL 400 KV Sub-Station to proposed Nandanpur 220 KV Sub-Station.	

- 3.0 In the application, WBSETCL has submitted the brief description of the following scheme:
- 3.1 A. Construction of 132/33 KV Gas Insulated Substation (GIS) within the Premises of existing Salt Lake 132/33 KV Air Insulated Sub-station (AIS):
- 3.1.1 At present 132/33 KV transformer capacity at Salt Lake 132 KV AIS is (3X50) MVA and maximum demand at 33 KV Bus has already reached approx. 125 MVA (83.33 % of its installed capacity) in Jun, 2024. Currently, Salt Lake 132 KV AIS is feeding power to major part of Salt Lake and New Town areas at 33 KV level through its total 22 nos. feeders and there is space constraint for further construction of new 132 KV or 33 KV bay.



- 3.1.2 Establishment of a 132/33 KV Gas Insulated Substation within the premises of existing Salt Lake 132/33 KV AIS at Salt Lake in the District 24 Parganas (North) has been contemplated to enhance transmission system reliability & flexibility; as well as to ensure adequate & quality power supply in the vicinity and to cope up with the future load growth and also for maintaining N-1 contingency.
- 3.1.3 Under such circumstances, it has been decided for construction of a 132/33 KV GIS Substation within the premises of existing Salt Lake 132/33 KV AIS with 2 x 50 MVA, 132/33 KV transformers. 01 no. 50 MVA 132/33 KV transformer will be newly installed and the other one is the existing transformer (3rd Tr.) in Salt Lake 132/33 KV AIS which will be connected with the proposed 132 KV GIS.
- 3.1.4 Existing 132 KV & 33 KV network will be reconfigured to establish connectivity of the proposed GIS Sub-Station with New Town-AA-I, Salt Lake GIS, Salt Lake Stadium and Salt Lake AIS 132 KV Sub-Station through S/C connectivity.
- 3.1.5 In response to query raised by the Commission vide letter dated 09.10.2025, WBSETCL has submitted additional information vide letter no. CE/CPD/WBERC/465 dated 17.10.2025 that the proposed sub-station has been considered as extension of existing Salt Lake AIS 132 KV Sub-Station to meet up 33 KV bay requirement along-with augmentation of 132/33 KV transformer capacity. This scheme is finalized on urgency basis and not considered in the Perspective Plan. After approval of the Board of Directors in its 94th meeting held on 14.06.2024, TAA has been issued vide CE/CPD/TAA/2024-25/084 dated 04.07.2024.
- 3.1.6 The Scheme is proposed to be completed within 18 months from the date of placement of LOA.

  The Transmission Scheme is scheduled to be commissioned within 2026-27.
- 3.2 Establishment of 66/33/11 KV Substation at Lolegaon, District- Kalimpong by LILO of Chalsa-Kalimpong 66 KV S/C transmission line at proposed Lolegaon 66 KV Sub-Station:
- 3.2.1 Establishment of a 66/33/11 KV Substation at Lolegaon in the District Kalimpong has been contemplated to supply adequate, reliable & quality power supply and to cope up the future load growth in and around Charkhole, Lolegaon, Kaffergaon, Sinjee, Sevoke in Kalimpong District.



- 3.2.2 Location of proposed Lolegaon 66 KV Sub-station is approx. 12 Km (radial) away from Kalimpong 66 KV Sub-Station and approx. 17 Km (radial) away from Odlabari 66 KV Sub-station. The proposed scheme of establishment of 66/33/11 KV Sub-Station at Lolegaon, Dist.-Kalimpong with S/C LILO of 66 KV Chalsa Kalimpong transmission line has been contemplated in the Perspective Plan of WBSETCL for the period from 2023-24 to 2028-29 which is approved by the BOD, WBSETCL in its 94th meeting held on 14th June, 2024.
- 3.2.3 33 KV feeders namely Pedong (01 no), Pala (01 no) and proposed Sultaley (02 nos.) will be emanated from this Sub-Station. At 11 KV, feeders namely Combining Sinjee and Sevoke (Approx. loading 105A), Combining Sinjee and Teesta Bazar (Approx. loading 95A), Combining Kaffer and Shyam Energy (Approx. loading 45A) and Combining others and RE (Approx. loading 91A) will be fed from this Sub-Station.
- 3.2.4 Recently, Kamakhyaguri and Bagula Sub-Stations of WBSETCL have been upgraded to 132 KV from 66 KV. The dismantled but serviceable equipment and structural materials emanated from these Sub-Stations will be utilized for construction of this 66 KV Sub-Station.
- 3.2.5 Long Term Settlement (LTS) of 4.38 Acres of vested land at Lolegaon, JL No. 61, Dist. Kalimpong for construction of this Sub-Station has been obtained on 21.06.2021. In response to query raised by the Commission vide letter dated 09.10.2025, WBSETCL has submitted document vide letter no. CE/CPD/WBERC/465 dated 17.10.2025 regarding cost involvement of this land as Rs 3506278/- consisting of salami @ Rs 3495240/- and annual rent @ Rs 11038/-.
- 3.2.6 The Scheme is proposed to be completed within 18 months from the date of placement of LOA.

  The Transmission Scheme is scheduled to be commissioned within 2026-27.
- 3.3 Construction of 132/33 KV Gas Insulated Sub-Station at Bagjola, PS- Baguihati, Dist North 24 Parganas:
- 3.3.1 Establishment of a 132/33 kV Substation at Bagjola, PS- Baguihati, Dist North 24 Parganas has been contemplated to supply adequate, reliable & quality power supply in and around Bagjola, Chandiberia, Baguihati, Mandalghati etc. in district North 24 Parganas for betterment of voltage and to cope up the future load growth.



- 3.3.2 Present peak load demand of Bagjola 33/11 KV Sub-station is around 17.5 MVA and is fed from Salt Lake 132/33 GIS and Salt Lake 132/33 AIS which are located radially at a distance of 1.6 and 2.8 Km (approx.). Peak load demand of Chandiberia 33/11 KV Sub- stations is around 17 MVA and is connected with Salt Lake 132/33 AIS which is located at a distance of 2.0 Km (approx.). Peak load demand of Mandalghati 33/11 KV Sub-stations is around 13 MVA and is feed from Salt Lake 132/33 GIS (through Bagjola 33 KV SS) which is located at a distance of 5.0 Km (approx.). Peak load demand of Baguihati 33/11 KV Sub- stations is around 13.5 MVA and is feed from Salt Lake 132/33 GIS (through Bagjola 33 KV SS. Also, Meena Aurum 33/11 KV Sub-Station and A-13 33/11 KV Sub-Station are feed from Salt Lake 132/33 GIS, Salt Lake 132/33 AIS and New Town AA-I 132 KV Sub-Station within 5 km (radius).
- 3.3.3 Present installed capacity (IC) of Transformer at Salt Lake 132/33 KV GIS is (2x50) MVA and maximum demand around 78 MVA (78% of IC as on April, 2024). Present installed capacity of Salt Lake 132/33 KV AIS is (3x50) MVA and maximum demand around 125 MVA (83.33 % of IC as on June, 2024). Installed capacity of New Town-I 132/33 KV SS is (3x50) MVA and maximum demand around 131 MVA (87.33 % of IC as on April, 2024).
- 3.3.4 Considering perspective aggregated Maximum load demand of 2028-29 of these Bagjola, Chandiberia, Mandalgathi, Baguihati, Meena Aurum and A-13 33/11 KV Sub-Stations around 120 MVA, establishment of 132/33 KV GIS at Bagjola, North 24 Parganas district by drawl of 132 KV D/C UG cable line from New Town IIC 220 KV GIS Sub-Station was contemplated in the Rolling Plan up to 2028-29 which is approved by the BOD, WBSETCL in its' 94th meeting held on 14th June, 2024).
- 3.3.5 STATUS OF LAND: The feasibility and suitability of 2.5 acres of vested land near Bagjola 33/11 KV Substation of WBSEDCL has been confirmed for construction of 132 KV GIS. In response to query raised by the Commission vide letter dated 09.10.2025, WBSETCL has submitted document vide letter no. CE/CPD/WBERC/465 dated 17.10.2025 regarding cost involvement of this land as per assessment of L&LR and RR&R department, Govt. of West Bengal consisting of salami @ Rs 322434300/- and annual rent @ Rs 1018182/-. The Order of Long Term Settlement (LTS) of the above land is yet to be issued by L&LR and RR&R department, Govt. of West Bengal.
- 3.3.6 The Scheme is proposed to be completed within 18 months from the date of placement of LOA.

  The Transmission Scheme is scheduled to be commissioned within 2026-27.



- 3.4 Establishment of 220/132/33 KV Gas Insulated Sub-Station at Nandanpur District Bankura and establishment of 220 KV D/C transmission line from proposed BAPL 400 KV Sub-Station to proposed Nandanpur 220 KV Sub-Station.:
- 3.4.1 Establishment of 220/132/33 KV Substation at Nandanpur in the District Bankura is contemplated to meet up existing & upcoming bulk power load as well as to supply adequate, reliable & quality power supply in and around Nandanpur, Gangajalghati, Saltora in Bankura District. Requirement of total 18.07 MVA (as per perspective load of 2029-30) at 33 KV voltage level has been proposed apart from large number bulk consumers in that region who have applied / shown interest for receiving 111 MVA power at 132 KV and 31.89 MVA at 33 KV.
- 3.4.2 Based on the guideline as laid down under notification no. PO/O/C-VI/SS-19/06, Dated: 28.05.2014 of the Additional Secretary, Dept. of Power & NES, Govt. of WB, construction of an integrated 220/132/33/11 KV Sub-Station has been-considered within the existing 33/11 KV Sub-Station of WBSEDCL at Nandanpur, Bankura. The work will be executed by shifting of existing 11 KV system of WBSEDCL in phased manner. Existing Nandanpur 33 KV Sub-Station, Gangajalghati 33 KV Sub-Station, ECL Kalidaspur (Bulk), and PHE (Bulk) will draw power from this proposed Nandanpur 220/132/33 KV Sub-Station.
- 3.4.3 STATUS OF LAND: The proposed Sub-Station will be constructed within the premises of existing Nandanpur 33/11 KV Sub-Station of WBSEDCL. In response to query raised by the Commission vide letter dated 09.10.2025, WBSETCL has submitted document vide letter no. CE/CPD/WBERC/465 dated 17.10.2025 that permissive possession of 2.9 Acre of land in Plot No 177/610 at Mouza- Nandanpur, JL No 57, PS + Block- Mejia, Dist. Bankura is handed over by WBSEDCL to WBSETCL. For drawl of 200 KV transmission line, Cost of Way-leave / crop compensation will be arranged as per prevailing norms / within the provision of the turnkey Supply & Erection Order.
- 3.4.4 The Scheme is proposed to be completed within 24 months from the date of placement of LOA. The Transmission Scheme is scheduled to be commissioned within 2026-27.



# 4.0 Approval Reference of all these Projects:

·SI.no	Name of the Project	Approved by	Approval Ref.
1.	Construction of Salt Lake 132/33 KV Sub-Station at Salt Lake 132 KV AIS premises with 4 nos. 132 KV feeder bays, 2x50 MVA, 132/33 KV Transformers (existing one 50 MVA tr. will be connected with this SS), 10 nos. 33 KV feeder bays, 1x100 KVA, 33/0.415 KV Station Service Transformer and 01 no. 33 KV Earthing Transform.er (874A).	BOD, WBSETCL	Agenda Item No 23 of 94th meeting of BOD held on 04.07.2024
	Construction of 66/33/11 KV Sub-Station at Lolegaon, District- Kalimpong with 2 no. 66 KV feeder bays, 2x10 MVA, 66/33 KV transformers, 2x10 MVA, 66/11 KV transformers, 06 no. 33 KV feeder bays, 06 no. 11 KV feeder bays and 02 no. 33/0.415 KV 100 KVA Station Service transformers.	BOD, WBSETCL	Agenda Item No21 of 96th meeting of BOD held on 29.11.2024
2.	Construction of 66 KV D/C transmission line by LILO of Chalsa-Kalimpong 66 KV S/C transmission line (OH S/C RL=0.280 Km, OH D/C RL=0.225 Km & UG D/C RL=0.075 Km) at proposed Lolegaon 66 KV Sub-Station	CMD, WBSETCL	Approval on 11.10.2024
3	Construction of 132/33 KV Gas Insulated Sub-Station at Bagjola, PS- Baguihati, Dist - North 24 Parganas with 2 no. 132 KV feeder bays, 3x50 MVA, 132/33 KV Transformers, 16 no. 33 KV VCB feeder bays, 2x100 KVA, 33/0.415 KV Station Service Transformers and 03 no. 33 KV Earthing Transformer (874A)	BOD, WBSETCL	Agenda Item No20 of 96th meeting of BOD held on 29.11.2024
4	Construction of 220/132/33 KV Sub-Station at Nandanpur, Bankura with 2 nos. 220 KV feeder bays, 2xl60 MVA, 220/132/33 KV Transformers, 4 nos. 132 KV feeder bays, 2x50 MVA, 132/33 KV Transformers, 10 nos. 33 KV feeder bays, 3x6.3 MVA, 33/11 KV Transformers, 2x315 KVA, 33/0.415 KV Station Service Transformers, and 02 nos. 33 KV Earthing Transformers (874A).	BOD, WBSETCL	95th meeting of BOD held on 04.09.2024
	Construction of 220 KV D/C transmission line to establish connectivity from proposed BAPL 400 KV Sub-Station to proposed Nandanpur 220 KV Sub-Station (D/C RL=19 Km & M/C RL=1.20 Km).	BOD, WBSETCL	96th meeting of BOD held on 29.11.2024

### 5.0 Funding arrangement:

The project is 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 Institution with a payback period of 10 years 6 months.

Interest During Construction based on the assumption that the project being financed from equity and loan in the ratio of 30:70 and the equity component being released simultaneously along with the loan component. The interest rate for the loan amount has been considered @ 9.0% for domestic funding.

#### 6.0 Status of tender:

Tender for above-mentioned transmission scheme will be floated shortly after completion of Pre-Tender Engineering stage.

#### 7.0 Basis of Cost Estimate:

The unit rates for all equipment for transmission line & Bays have been considered from Latest Cost Data (which was prepared based on the unit equipment rate obtained from Procurement Department of WBSETCL). The cost estimates for equipment are inclusive of all Taxes & Duties.

Cost data reference date: Approved cost data dated 05.06.2023.

#### 8.0 Financial implication:

The project cost as submitted by WBSETCL along-with DPRs for the 4 (four) projects covered under paragraph 2 above are as given below:

SI	.No.	Description	Rs. in Lakhs
	A.	Construction of Salt Lake 132/33 KV Sub-Station at Salt Lake 132 KV AIS premises with 2x50 MVA, 132/33 KV Transformers (existing one 50 MVA tr. will be connected with this SS)	
1	i	Total Estimated Cost	5509.72
	ii	Supervision Charge (@10%)	550.97
	lii	Total Project Cost including Supervision	6060.69
	iv	IDC	504.40
		Project Cost including IDC & Supervision	6565.09



SI.No.		Description	Rs. in Lakhs		
	Α.	Construction of 66/33/11 KV Sub-Station at Lolegaon, District- Kalimpong with 2x10 MVA, 66/33 KV transformers, 2x10 MVA, 66/11 KV transformers			
-	i	Total Estimated Cost	3898.62		
	ii	Supervision Charge (@10%)	389.86		
		Total Project Cost including Supervision	4288.48		
		IDC	272.87		
2		Project Cost including IDC & Supervision	4561.35		
	В.	Construction of 66 KV D/C transmission line by LILO of Chalsa-Kalimpong 66 KV S/C transmission line (OH S/C RL=0.280 Km, OH D/C RL=0.225 Km & UG D/C RL=0.075 Km) at proposed Lolegaon 66 KV Sub-Station.			
-	i	Total Estimated Cost	209.64		
1	ii	Supervision Charge (@10%)	20.96		
-		Total Project Cost including Supervision	230.60		
		Total Project Cost (A+B)	4791.95		
	A.	Construction of 132/33 KV Gas Insulated Sub-Station at Bagjola, PS-Baguihati, Dist - North 24 Parganas with 3x50 MVA, 132/33 KV Transformers.			
	i	Total Estimated Cost	6346.93		
	ii	Supervision Charge (@10%)	634.69		
3		Total Project Cost including Supervision	6981.62		
	iii	IDC	398.36		
		Project Cost including IDC & Supervision	7379.98		
	Α.	Construction of 220/132/33 KV Sub-Station at Nandanpur, Bankura with 2xl60 MVA,			
	i	Total Estimated Cost	12166.67		
	ii	Supervision Charge (@10%)	1216.67		
		Total Project Cost including Supervision	13383.34		
4	iii	IDC	1308.11		
		Project Cost including IDC & Supervision	14691.45		
	В.	Construction of 220 KV D/C transmission line to establish connectivity from proposed BAPL 400 KV Sub-Station to proposed Nandanpur 220KV Sub-Station (D/C RL=19 K & M/C RL=1.20 Km).			
	i.	Total Estimated Cost	5976.70		
	ii	Supervision Charge (@10%)	597.67		
		Total Project Cost including Supervision	6574.37		



SI.No	).		Description	Rs. in Lakhs
iii	I	DC		684.56
			Project Cost including IDC & Supervision	7258.93
			Total Project	21950.38
		(	Grand Total (Sl. No. 1+2+3+4)	40687.40

# **OBSERVATIONS OF THE COMMISSION**

- 5.0 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 after 31.12.2007. 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.
- 6.0 The Commission also observes that the projects will cater reliable and quality power in and around the areas of the construction of the substations to the existing and upcoming consumers, benefiting the consumers at the end.

#### ORDER

- 7.0 The Commission after consideration of all the facts and the project reports submitted by WBSETCL in their petition dated 28.03.2025, approves the investment proposal of Rs. 40687.40 Lakh in terms of regulation 2.8.2.3 of Tariff Regulations.
- 8.0 The Commission also gives the following directions:
  - (i) All future projects shall be approved under the Perspective Plan of WBSETCL in terms of Regulation 2.9.3 of West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011, as amended, before seeking In-Principle approval.
  - (ii) 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, tax, establishment charges, 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.

- (iii) 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.
- (iv) WBSETCL shall take necessary approval of the Commission under Regulation 5.11 of West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulations, 2013 regarding transfer of land from WBSEDCL to WBSETCL.
- (v) On completion of each project WBSETCL shall submit the COD and a benefit analysis of the project separately before the Commission.
- (vi) Original project cost is required to be approved showing the details of deviations from its investment plan along with reasons of such deviations 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.
- 9.0 The Petition is thus disposed of.



10.0 WBSETCL shall download the copy of the order from the website of the Commission and act on it. Certified copy of the order, if applied for, be given to the parties on completion of formalities laid down in the West Bengal Electricity Regulatory Commission (Conduct of Business) Regulations, 2013, as amended and on submission of necessary fees.

Sd/(DR. MALLELA VENKATESWARA RAO)
CHAIRPERSON

Dated: 06.11.2025

Sd/-

**DEPUTY DIRECTOR, WBERC**