

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Erode Region – Establishment of 33/11 kV SS & Enhancement of power transformer capacity at existing 33/11 kV SS – Revised Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No: 65

Dated: 06.08.2026

Sri Parabhava Varudam

Aadi : 21

Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated: 01.08.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the revised proposal for the sanctioned 2 Nos. establishment of 33/11 kV SS & 2 Nos. enhancement of power transformer capacity at the existing 33/11 kV SS in various EDCs of Erode Region at a total estimated cost of Rs.2189.45 Lakhs Gross and Rs.2120.07 lakhs Nett. by superseding the approval already accorded for the said substations as detailed below:-

Sl No	Name of EDC	Name of the 33 /11 kV substation	Already approved vide BP.No and date
1	Erode	Kodumanal 33/11KV SS	34/28.03.2025
2	Gobi	Kadambur 33/11 KV SS	37/03.03.2023
3	Gobi	Bannari 33/11 KV SS Enhancement	159/06.07.2023
4	Gobi	Chimmitahalli 33/11 KV SS Enhancement	104/23.07.2021

The detailed estimates and report are annexed to these proceedings.

2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure - Respective EDCs – New SS - A/c code no. 14.555, ERP A/c code no 1020300.
3. By virtue of the provisions contained in sub-section (2) (a) of section 185 of the Electricity Act, 2003, the TNPDC being the Licensee and successor entity of Tamil Nadu Electricity Board will exercise the powers of the Telegraph Authority under the provisions of section 164 of the Electricity Act, 2003, which have already been conferred upon the Board under section 51 of the Indian Electricity Act, 1910.

4. The work is to be taken up after ensuring budget provision.

// BY ORDER OF THE CMD //

N.SIVAGAMI

CHIEF ENGINEER / PLANNING & RC (i/c)

Encl: Report and detailed estimate.

To
The Chief Engineer/ Distribution / Erode Region.

Copy to:

The Director/Distribution/TNPDCL/Chennai-2

The Director/Finance/ TNPDCL / Chennai - 2

The Chief Engineer/ Material Management /Chennai -2

The Chief Engineer/ IT & R-APDRP /Chennai -2

The Superintending Engineer/ Erode EDC

The Superintending Engineer/ Gobi EDC

The Superintending Engineer / RE & I(D) / Chennai -2

The Company Secretary/TNPDCL/Chennai -2

The Resident Audit Officer (AGO'S Unit) / Chennai -2

B.P. Section (Administrative Branch)

Stock to file

//FORWARDED BY ORDER//


06.08.2026

EXECUTIVE ENGINEER/MASTER PLAN I

(Per.) MD TNPDC Proceedings No: 65 dt.06.08.2026

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages revised proposal for the sanctioned 2 Nos. establishment of 33/11 kV SS & 2 Nos. of enhancement of power transformer capacity at the existing 33/11 kV SS in Erode Region at a total estimated cost of Rs.2189.45 Lakhs Gross and Rs.2120.07 lakhs Nett. by superseding the approval already accorded for the said substations.

Need:

Administrative approval for various proposals for establishment of 33/11 kV SS were sanctioned based on the field requirement to meet out the load growth. In the above sanctions, the rate as per prevailing cost data at that time and standard rates for civil works has been adopted.

Subsequently, schemes were proposed to be taken up under RDSS funding and the rates were standardized during 11/2022. Hence, revised administrative approval was accorded during 03/2025 for the schemes sanctioned between 2018-2022 by adopting the above standardized rates.

However, the above schemes were not taken up as the funding was not sanctioned. Now, it is proposed to take up the sanctioned schemes with necessary fund tie-up.

In the mean while, TNPDC's schedule of rates for the year 2025-26 has been communicated vide Lr.No.CE/Plg&RC/SE/RE&I(D)/EE/PC-I/F.SoR 25-26/D.164 /25, dt.22.10.2025.

As the above substation schemes were sanctioned based on 11/2022 rates and are proposed to be executed in this financial year, it becomes essential to revise the estimate as per the schedule of rates for the year 2025-26 and as per the field condition, so as to take up the works.

The provision which were made in the original estimate for 4 Nos. schemes has been modified as the request of the Chief Engineer/Distribution/Erode as detailed below;

i) Kodumanal 33/11KV SS

The rates has been revised as per schedule of rates for the year 2025-26.

ii) Kadambur 33/11 kV SS:

The proposed Kadambur 33/11 kV Substation is to be established in a hilly area. Accordingly, a hill allowance of 20% towards labour and transport costs has been included in the estimate. In addition, an extra provision of Rs 10 lakhs has been made towards earthing works, considering the site conditions.

iii) Bannari 33/11 KV SS - Enhancement of power transformer

The rates has been revised as per schedule of rates for the year 2025-26.

iv) Chimmitahalli 33/11 KV SS- Enhancement of power transformer

Since the existing Chimmitahalli 33/11 kV Substation is also located in a hilly area, a hill allowance of 20% towards labour and transport costs has been provided. Further, an additional provision of Rs 5 lakhs has been included towards earthing works as required at site.

Accordingly, the estimate for the above schemes has been revised for Erode Region and the details of original sanction and the revised estimated cost are as below:

Sl No	Name of EDC	Name of the 33/11 kV substation	Sanctioned vide BP.No and date	Sanctioned Amount in Rs. lakhs	Revised estimate cost in Rs. Lakhs	% increase
1	Erode	Kodumanal 33/11KV SS	34/ 28.03.2025	628.38	663.26	5.55
2	Gobi	Kadambur 33/11 KV SS	37/ 03.03.2023	866.61	1068.47	23.29
3	Gobi	Bannari 33/11 KV SS Enhancement	159/ 06.07.2023	242.44 (G) 182.02(N)	279.25 (G) 209.87 (N)	15.18
4	Gobi	Chimmitahalli 33/11 KV SS Enhancement	104/ 23.07.2021	104.22	178.47	71.24*
			Total	1841.65 (G) 1781.23 (N)	2189.45 (G) & 2120.07 (N)	

* - % increase is high as additional provision towards 20 % hill allowance for labour and transport charges and the power transformer rate as per schedule of rate 2025-26 has raised drastically when compared with the sanctioned cost.

As the cost variation of the schemes are either more than 10% of the administratively approved cost or cost towards individual material is more than 5% from the already approved cost, revised approval is necessary to take up the works.

The work involved as per the original sanction remains unaltered.


06.08.2026

Executive Engineer/Master Plan 1

ABSTRACT

SL. NO	DESCRIPTION	COST IN LAKHS	
		GROSS	NETT
	Erode Region		
I	Erode EDC		
1	Establishment of Kodumanal 33/11 KV SS at Punjaipaalathozhuvu with 1x8 MVA power transformer in Erode EDC of Erode Region.	663.26	663.26
II	Gobi EDC		
2	Establishment of Kadambur 33/11 KV SS at Guthuiyalathur with 1x8 MVA power transformer in Gobi EDC of Erode Region.	1068.47	1068.47
3	Enhancement of existing power transformer capacity from 1x8 MVA to 2x8 MVA at Bannari 33/11 kV SS and conversion of unmanned SS into regular SS in view of enhancement of power transformer capacity at Bannari 33/11 kV SS in Gobi EDC of Erode Region.	279.25	209.87
4	Enhancement of existing power transformer capacity from 1x8 MVA to 2x8 MVA at Chimmitahalli 33/11 KV SS in Gobi EDC of Erode Region.	178.47	178.47
	Total	2189.45	2120.07


06.08.2026.

Executive Engineer/Master Plan I

**REVISED ESTIMATE FOR ESTABLISHMENT OF KODUMANAL 33/11 KV SS AT PUNJAIPALATHOZHUVU
WITH 1x8 MVA POWER TRANSFORMER IN ERODE EDC**

Part I: Cost of new asset

SL.NO	DESCRIPTION	QTY	RATE	PER	Rs. In Lakhs	
					AMOUNT	TOTAL
I	CIVIL WORKS					
1	Land Cost (actuals)				7.506	
2	Civil works such as construction of control room with lighting, cable duct, road, fencing & gate, culvert, yard filling, retaining wall, borewell & water works, watering arrangement for earth pits, power transformer plinth, provision for sand drums & sand, supply of furnitures, T & P etc. (inclusive of contingencies, labour, administrative expenses, all statutory levies etc.)			LS	175.000	
3	Total				182.506	182.51
II	Electrical Works					
1	33 kV AB Switch	3 Nos	0.466	E	1.398	
2	33 kV SF6/VCB Breaker	1 No	2.930	E	2.930	
3	33 kV CTs	3 Nos	0.308	E	0.924	
4	33 kV PTs	3 Nos	0.336	E	1.008	
5	33 kV LAS stn. Type	3 Nos	0.038	E	0.114	
6	11 kV Breaker (1 LV+ 3 fdrs)	4 Nos	1.626	E	6.504	
7	11 kV CTS	12 Nos	0.250	E	3.000	
8	11 kV AB Switch	8 Nos	0.236	E	1.888	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	3 Nos	0.018	E	0.054	
11	11 kV LAS distn. Type	9 Nos	0.008	E	0.072	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
15	110 V Battery with 2 charger	1 set	8.707	set	8.707	
16	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.737	set	4.737	
17	Fire fighting equipments				3.000	
18	P&T Phone				0.100	
19	Scientific instruments				5.000	
20	C&R panel			LS	15.000	
21	DC panel	1 No	0.980	E	0.980	
22	AC panel	1 No	1.028	E	1.028	
23	Sub Total				77.977	
24	Contingencies @ 1%				0.780	
25	Total for materials				78.757	
26	Labour and Transport charges @ 15%				11.814	
27	GST on labour & transport @ 18%				2.126	
31	Total for material and labour				92.697	
32	8 MVA, 33/11 kV Pr. Tr. with OLTC	1 No.	88.374		88.374	
30	Labour and transport including GST	1 Loc	8.000	Loc	8.000	
31	Earthing	1 Loc	0.500	Loc	0.500	
32	Subtotal				189.571	
33	Estt & Sup. Charges-15%				28.436	
33	Sub Total				218.006	218.01
14	Plinth for breakers	5 Nos.	2.500	E	12.500	
34	33 kV Structure	1 set	38.090	set	38.090	
35	11 kV Structure	1 set	33.791	set	33.791	
36	11 kV Link line with 7/4.09 ACSR	2 kms.	8	km	16.000	
37	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
38	33 kV line with Dog conductor	7.5 kms.	12.000	Loc	90.000	
39	Laying of 33 kV, 1x630 Sq.mm. UG cable	0.5 kms.	90.73	Loc	45.363	
40	*Extension of 33 kV bay at the existing Periyandipalayam 110 kV SS					
41	Subtotal				262.75	262.75
42	Total Gross & Nett.					663.26

* 33 kV bay extension at source 110 KV SS is under the scope of TRANSCO

**DETAILED ESTIMATE FOR ESTABLISHMENT OF KADAMBUR 33/11 kV SS AT GUTHUIYALATHUR WITH
1x8 MVA POWER TRANSFORMER IN GOBI EDC**

Part I: Cost of new asset

Rs. In Lakhs

SL.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	TOTAL
I	CIVIL WORKS					
1	Land Cost (actuals)				3.300	
2	Civil works such as construction of control room with lighting, cable duct, road, fencing & gate, culvert, yard filling, retaining wall, borewell & water works, watering arrangement for earth pits, power transformer plinth, provision for sand drums & sand, supply of furnitures, T & P, Hill allowance etc. (inclusive of contingencies, labour, administrative expenses, all statutory levies etc.)			LS	175.000	
3	20% Hill rate on 40% rate of civil works				14.000	
	Total				192.300	192.30
II	Electrical Works					
1	33 kV AB Switch	3 Nos	0.466	E	1.398	
2	33 kV SF6/VCB Breaker	1 No	2.930	E	2.930	
3	33 kV CTs	3 Nos	0.308	E	0.924	
4	33 kV PTs	3 Nos	0.336	E	1.008	
5	33 kV LAS stn. Type	3 Nos	0.038	E	0.114	
6	11 kV Breaker (1 LV+ 5 fdrs)	6 Nos	1.626	E	9.756	
7	11 kV CTS	18 Nos	0.250	E	4.500	
8	11 kV AB Switch	12 Nos	0.236	E	2.832	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	3 Nos	0.018	E	0.054	
11	11 kV LAS distn. Type	15 Nos	0.008	E	0.120	
12	Earthing painting and Yard lighting			LS	20.000	
13	Control cable			LS	10.000	
14	110 V Battery with 2 charger	1 set	8.707	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.737	set	4.737	
16	Fire fighting equipments				3.000	
17	P&T Phone				0.100	
18	Scientific instruments				5.000	
19	C&R panel			LS	15.000	
20	DC panel	1 No	0.980	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	Sub Total				93.721	
23	Contingencies @ 1%				0.937	
24	Total for materials				94.658	
25	Labour and Transport charges @ 15%				14.199	
26	20% Hill rate on Labour and transport				2.840	
27	GST on labour & transport @ 18%				3.067	
28	Total for material and labour				114.764	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	1 No.	88.374	E	88.374	
30	Labour and transport including GST	1 Loc	16.000	Loc	16.000	
31	20% Hill rate on Labour and transport				3.200	
32	Earthing	1 Loc	0.500	Loc	0.500	
33	Sub total				222.838	

**DETAILED ESTIMATE FOR ESTABLISHMENT OF KADAMBUR 33/11 kV SS AT GUTHUIYALATHUR WITH
1x8 MVA POWER TRANSFORMER IN GOBI EDC**

Part I: Cost of new asset

Rs. In Lakhs

34	Estt & Sup. Charges 15%				33.426	
35	Sub Total				256.263	256.26
36	Plinth for breakers	7 Nos.	2.500	E	17.500	
37	33 kV Structure	1 set	38.090	set	38.090	
38	11 kV Structure	1 set	33.791	set	33.791	
39	11 kV Link line with 7/4.09 ACSR	7 kms.	8	km	56.000	
40	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
41	33 kV line with Dog conductor	14.8 kms.	12.000	Loc	177.600	
42	33 kV line with covered conductor	8 kms.	28.000	Loc	224.000	
43	20% Hill rate on Labour and transport				45.919	
44	Subtotal				619.91	619.91
45	Total Gross & Nett.					1068.47

Detailed estimate for enhancement of existing power transformer capacity from 1x8 MVA to 2x8 MVA at Bannari 33/11 kV SS and conversion of unmanned SS into regular SS in view of enhancement of power transformer capacity at Bannari 33/11 kV SS in Gobi EDC

Part I: Cost of new asset

Rs. In Lakhs

SL. No.	DESCRIPTION	QTY	RATE	PER	AMOUNT	TOTAL
I	CIVIL WORKS					
1	Extension of control room, cable duct, metal & stone dust spreading etc.			LS	10.000	
2	Fire protection wall			LS	3.000	
3	Total (all inclusive)				13.000	13.00
II	Electrical Works					
1	33 kV AB Switch	1 No.	0.466	E	0.466	
2	33 kV LAS stn. Type	3 Nos	0.038	E	0.114	
3	11 kV Breaker (LV)	1 No.	1.626	E	1.626	
4	11 kV CTs	3 Nos	0.250	E	0.750	
5	11 kV AB Switch	2 Nos	0.236	E	0.472	
6	11 kV LAS Station Type	3 Nos	0.0180	E	0.054	
7	Earthing painting and Yard lighting			LS	2.000	
8	Control cable			LS	3.000	
9	C&R panel			LS	5.000	
10	DC panel	1 No.	0.980	E	0.980	
11	33 kV & 11 kV Structure modification			LS	10.000	
12	Sub Total				24.462	
13	Contingencies @ 1%				0.245	
14	Total for materials				24.707	
15	Labour and Transport charges @ 15%				3.706	
16	GST on labour & transport @ 18%				0.667	
17	Total for material and labour				29.080	
18	8 MVA, 33/11 kV Pr. Tr. with OLTC	1 No.	88.374	E	88.374	
19	Plinth for Power Transformer	1 No	5.00	Loc	5.000	
20	Labour and transport including GST	1 Loc	8.000	Loc	8.000	
21	Earthing	1 Loc	0.500	Loc	0.500	
22	Sub total				130.954	
23	Estt & Sup. Charges 15%				19.643	
24	Subtotal				150.597	150.60
25	Plinth for breakers	1 No.	2.500	E	2.500	
26	Strengthening of existing Rabbit conductor in the existing 33 kV Bhavani Sagar - Bannari feeder with Dog conductor	9.14 kms	12.000	km	109.68	
27	Subtotal				112.18	112.18
28	Dismantling charges					3.469
29	Total Gross					279.25
30	Less credit					69.37
31	Total Nett					209.87

Part I (a) : Dismantling Charges

1 Dismantling Charges = **3.469 lakhs**

Detailed estimate for enhancement of existing power transformer capacity from 1x8 MVA to 2x8 MVA at Bannari 33/11 kV SS and conversion of unmanned SS into regular SS in view of enhancement of power transformer capacity at Bannari 33/11 kV SS in Gobi EDC

PART II - Accumulated Depreciation charges

SL. No.	DESCRIPTION	Original cost a	Full Life Period b	Useful Life Period c	Accum. depre. (0.9*a*c)/b
1	33 kV line with Rabbit conductor	69.37	35	13	23.190
2	Total	69.37			23.190

PART III-Devolution of old asset - Debit to stock

(PART IV-PART II)

46.182 lakhs

PART IV - Removal of old assets Charges

Sl.No	Description	Qty in kms.	Original cost in lakhs *	Original erection charges	Original centages	Original Cost of Asset
1	33 kV line with Rabbit conductor *	9.14	54.840	5.484	9.049	69.373
2	Total					69.373

* 50% rate as per present cost data for 33 kV line with Dog conductor has been adopted.

ABSTRACT

Part I : New Asset Charges

Rs in Lakhs

279.25

209.87

Part I (a) : Dismantling Charges

3.47

Part II : Accumulated Depreciation Charges

23.19

Part III :Devolution of old equipment to store

46.18

Part IV : Removal of old assets Charges

69.37

**DETAILED ESTIMATE FOR ENHANCEMENT OF EXISTING POWER TRANSFORMER
CAPACITY FROM 1x8 MVA to 2x8 MVA AT CHIMMITAHALLI 33/11 kV SS IN GOBI EDC**

RS. in Lakhs					
S.NO	DESCRIPTION	QTY	RATE	PER	TOTAL
1	33 kV AB switch	1 No	0.466	E	0.466
2	11 kV VCB (LV)	1 No	1.626	E	1.626
3	11 kV AB switch	2 Nos	0.466	E	0.932
4	11 kV CTs	3 Nos	0.250	E	0.750
5	33 kV LAs (Station type)	3 Nos.	0.038		0.114
6	11 kV LAS (Station type)	3 Nos	0.018	E	0.054
7	Control cable			LS	3.000
8	C&R Panel			LS	5.000
9	33 kV & 11 kV structure modifications			LS	10.000
10	Earthing of equipments			LS	5.000
11	Sub total				26.942
12	Contingencies @ 1%				0.269
13	Total for materials				27.211
14	Labour and Transport charges @ 15%				4.082
15	20% Hill allowance on labour and transport				0.816
16	GST on labour & transport @ 18%				0.882
17	Total for material and labour				32.991
18	8 MVA, 33/11 kV Pr. Tr. with OLTC	1 No	88.374	No	88.374
19	Plinth for transformer			LS	5.000
20	labour and Transport inclusive of GST	1 No	16.00	Loc	16.000
21	20% Hill allowance on labour and transport			LS	3.200
22	Earthing	1 No	0.5	No	0.500
23	Sub total				146.065
24	Estt and Supervision charges 15%				21.910
25	Plinth for breaker				2.500
26	Fire Protection wall	1 Loc	3.00	E	3.00
27	Civil works including cable duct ,Road culvert etc.,			LS	5.000
28	Total for works (Gross) & (Nett)				178.47