

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Tirunelveli Region – Establishment of 33/11 kV SS – Revised Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No:58

Dated:30.07.2026

Sri Parabhava Varudam

Aadi : 14

Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated: 18.07.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the revised proposal for the sanctioned 3 Nos. establishment of 33/11 kV SS in Tirunelveli & Virudhunagar EDCs of Tirunelveli Region at a total estimated cost of Rs.2181.25 Lakhs Gross & Rs.2135.71 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	Tirunelveli	Medical college SS	242/05.12.2022
2	Tirunelveli	Seevalaperi SS	140/14.06.2023
3	Virudhunagar	Pernaickenpatty SS	75/27.03.2023

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 //

J.PUSHPALATHA
CHIEF ENGINEER / PLANNING & RC

Encl: Report and detailed estimate.

To
The Chief Engineer/ Distribution / Tirunelveli 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/ Tirunelveli EDC

The Superintending Engineer/ Virudhunagar 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//


31.07.2026

Executive Engineer/Master Plan - I

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages revised proposal for the sanctioned 3 Nos. establishment of 33/11 kV SS in Tirunelveli Region at a total estimated cost of Rs.2181.25 Lakhs Gross & Rs.2135.71 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, TNPDCCL'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.

Accordingly, the estimate for the above such schemes have been revised for Tirunelveli Region and the details of original sanction and the revised estimated cost in respect of 3 nos. new 33/11 kV SS 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	Tirunelveli	Medical college SS	242/ 05.12.2022	549.02	658.70	19.98
2	Tirunelveli	Seevalaperi SS	140/ 14.06.2023	573.54	652.84	13.83
3	Virudhunagar	Pernaickenpatty SS	75/ 27.03.2023	738.93 (G) 699.27 (N)	869.71(G) 824.17(N)	17.70
			Total	1861.49(G)& 1821.83(N)	2181.25(G) & 2135.71(N)	

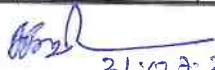
As the cost variation of the schemes are more than 10% from the already approved cost, revised approval is necessary to take up the works.

The work involved as per the original sanction remains unaltered.


31.07.26
Executive Engineer/Master Plan I

ABSTRACT

SL. NO	DESCRIPTION	COST IN LAKHS	
		GROSS	NETT
	Tirunelveli Region		
I	Tirunelveli EDC		
1	Establishment of 33/11 kV SS with 2x8 MVA power transformers at Medical college in Tirunelveli EDC of Tirunelveli Region	658.70	658.70
2	Establishment of 33/11 kV SS with 1x8 MVA power transformer at Seevalaperi in Tirunelveli EDC of Tirunelveli Region	652.84	652.84
	Virudhunagar EDC		
1	Establishment of 33/11 kV SS with 2x8 MVA power transformers at Pernaickenpatty in Virudhunagar EDC of Tirunelveli Region	869.71	824.17
	Total	2181.25	2135.71


21.07.2026
Executive Engineer/Master Plan I

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER
AT SEEVALAPERI 33/11 KV SS IN TIRUNELVELI EDC**

Part I : New Asset Chargeable to Capital

RS. in Lakhs

SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS					
1	Land cost				2.380	
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.)				175.000	
3	Total			LS	177.380	177.380
II	Electrical Works					
1	33 kV AB Switch	3 Nos	0.466	E	1.398	
2	33 kV SF6 Breaker	1 No	2.930	E	2.930	
3	33 kV CTs	3 Nos	0.308	E	0.924	
4	33 kV PT	3 Nos	0.336	E	1.008	
5	33 kV LAS stn. Type	3 Nos	0.038	E	0.114	
6	11 kV breaker (1LV+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	E	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	
14	110 V, 120 AH Battery with 2 chargers	1 set	8.707	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.737	set	4.737	
16	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
19	C&R panel				15.000	
20	Fire Fighting equipments		3.000	E	3.000	
21	P&T Phone	1 No	0.100	E	0.100	
22	Scientific Instruments				5.000	
23	Sub Total				79.122	
24	Contingencies @ 1%				0.791	
25	Total for materials				79.913	
26	Labour and Transport charges @ 15%				11.987	
27	GST on labour & transport @ 18%				2.158	
28	Total for material and labour				94.058	
29	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				190.932	
33	Estt & Sup. Charges 15%				28.640	
34	Sub Total				219.572	219.572
35	Plinth for breakers	5 set	2.5		12.500	
36	33 kV Structure	1 set	38.09	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	* 33 KV Bay extension at Gangaikondan 110 kV SS					
39	Erection of 33 kV link lines with dog conductor from Gangaikondan 110/33-11 KV SS to the proposed Seevalaperi 33/11 KV SS.	7.8 km	12	km	93.600	
40	Erection of 11 kV Link lines with 7/4.09 ACSR	0.6 km	8	Km	4.800	
41	Laying of 33 KV UG cable for rail way crossing (double run)				73.110	
42	Sub Total				255.891	255.891
43	Total Gross & Nett					652.84

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

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS WITH 2x8 MVA, 33/11 KV POWER TRANSFORMERS AT MEDICAL COLLEGE IN TIRUNELVELI EDC

Part I : New Asset Chargeable to Capital

RS. in Lakhs

SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS					
1	Land cost				0.000	
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	180.000	
3	Construction of fire protection wall			LS	3.000	
4	Total				183.000	183.000
II	Electrical Works					
1	33 KV AB Switch	4 Nos	0.466	E	1.864	
2	33 KV SF6 Breaker	1 No	2.930	E	2.930	
3	33 KV CTs	3 Nos	0.308	E	0.924	
4	33 KV PT	3 Nos	0.336	E	1.008	
5	33 KV LAS stn. Type	3 Nos	0.036	E	0.114	
6	11 KV breaker (2 LV+4 fdrs)	6 Nos	1.626	E	9.756	
7	11 KV CTS	18 Nos	0.250	E	4.500	
8	11 KV AB Switch	11 Nos	0.236	E	2.596	
9	11 KV Bus PT	3 Nos	0.511	E	1.533	
10	11 KV LAS stn. Type	6 Nos	0.018	E	0.108	
11	11 KV LAS distn. Type	12 Nos	0.008	E	0.096	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
14	110 V, 120 AH Battery with 2 chargers	1 set	8.707	set	8.707	
15	100 KVA, 11 KV/433 V Stn. Tr.	1 No	4.737	set	4.737	
16	DC panel	1 No	0.98	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
19	C&R panel				17.000	
20	Fire Fighting equipments		3.000	E	3.000	
21	P&T Phone	1 No	0.100	E	0.100	
22	Scientific Instruments				5.000	
23	Sub Total				87.126	
24	Contingencies @ 1%				0.871	
25	Total for materials				87.997	
26	Labour and Transport charges @ 15%				13.200	
27	GST on labour & transport @ 18%				2.376	
28	Total for material and labour				103.573	
29	8 MVA, 33/11 KV Pr. Tr. with OLTC	2 Nos	88.374		176.748	
30	Labour and transport including GST	2 Loc	8.000	Loc	16.000	
31	Earthing	2 Loc	0.500	Loc	1.000	
32	Subtotal				297.321	
33	Estt & Sup. Charges 15%				44.598	
34	Subtotal				341.919	341.919
35	Plinth for breaker	7 Nos	2.5		17.500	
36	33 KV Structure	1 set	38.09	set	38.090	
37	11 KV Structure	1 set	33.791	set	33.791	
	Erection of 33 KV link lines with dog conductor					
38	tapped off 33 KV Palayamkottai - Kokkirakulam feeder to the proposed Medical college 33/11 KV SS	1.3 km	12	km	15.600	
39	Erection of 11 KV Link lines with 7/4.09 ACSR	3.6 km	8	Km	28.800	
40	Sub Total				133.781	133.781
41	Total Gross & Nett					658.70

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS WITH 2x8 MVA, 33/11 KV POWER TRANSFORMERS
AT PERNAICKENPATTI IN VIRUDHUNAGAR EDC**

Part I : New Asset Chargeable to Capital

RS. in Lakhs

SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS					
1	Land cost				59.002	
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	180.000	
3	Fire protection wall				3.000	
4	Total				242.002	242.002
II	Electrical Works					
1	33 kV AB Switch	4 Nos	0.466	E	1.864	
2	33 kV SF6 Breaker	1 No	2.930	E	2.930	
3	33 kV CTs	3 Nos	0.308	E	0.924	
4	33 kV PT	3 Nos	0.336	E	1.008	
5	33 kV LAS stn. Type	6 Nos	0.038	E	0.228	
6	11 kV breaker (2 LV+5 fdrs)	7 Nos	1.626	E	11.382	
7	11 kV CTS	21 Nos	0.250	E	5.250	
8	11 kV AB Switch	13 Nos	0.236	E	3.068	
9	11 kV Bus PT	3 Nos	0.511	E	1.533	
10	11 kV LAS stn. Type	6 Nos	0.018	E	0.108	
11	11 kV LAS distn. Type	10 Nos	0.008	E	0.080	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
14	110 V, 120 AH Battery with 2 chargers	1 set	8.707	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.737	set	4.737	
16	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
19	C&R panel				17.000	
20	Fire Fighting equipments		3.000	E	3.000	
21	P&T Phone	1 No	0.100	E	0.100	
22	Scientific Instruments				5.000	
23	Sub Total				90.072	
24	Contingencies @ 1%				0.901	
25	Total for materials				90.973	
26	Labour and Transport charges @ 15%				13.646	
27	GST on labour & transport @ 18%				2.456	
28	Total for material and labour				107.075	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374		176.748	
30	Labour and transport including GST	2 Loc	8.000	Loc	16.000	
31	Earthing	2 Loc	0.500	Loc	1.000	
32	Sub total				300.823	
33	Estt & Sup. Charges 15%				45.123	
34	Sub Total				345.946	345.946
35	Plinth for breaker	8 Loc	2.5		20.000	
36	33 kV Structure	1 set	38.09	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	33 kV line with ACSR dog conductor from Paraipatti 110 KV SS to the proposed Pernaickenpatti 33/11 KV SS	6.45 kms	12.00	km	77.400	
39	Erection of 11 kV Link lines with 7/4.09 ACSR	10.4 km	8.00	Km	83.200	
40	11 KV, 2.4 MVAR capacitor bank	1.0 set	27.008		27.008	
41	Dismantling charges				2.277	
42	Sub Total				281.766	281.766
43	Total works Gross					869.71
44	Less credit					45.54
45	Total Nett					824.17

Dismantling Charges

2.277

lakhs

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	DESCRIPTION	Original cost of asset	Full Life Period	Useful Life Period	Accum. depre.
1	33 kV line with Mink conductor (7/3.35 mm)	45.540	25	31	40.986
					40.99

Part III : Devolution of old equipment to store

Part III: Part IV - Part II =

45.54

- 40.99

=

4.554

lakhs

Part IV : Removal of old assets

SL.No	DESCRIPTION	QTY	Original cost	Original erection charges	Original centages	Original cost of asset in Lakhs
1	33 kV line with Mink conductor (7/3.35 mm)	6 kms	36.000	3.6	5.940	45.540
	Total					

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

ABSTRACT

Part I : New Asset Chargeable to Capital

Rs in Lakhs

869.71 Gross**824.17 Nett**

Part I (a) : Dismantling Charges

2.277

Part II : Accumulated Depreciation Charges

40.99

Part III : Devolution of old equipment to store

4.55

Part IV : Removal of old assets Charges

45.54