

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Trichy Region – Establishment of 33/11 kV SS – 9 Nos. - Proposed to be executed – Revised Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDCCL Proceedings No.62

Dated:31.07.2026

Sri Parabava varudam

Aadi : 15

Thiruvalluvar Aandu 2057.

READ: Chairman cum Managing Director's approval dated: 27.07.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Limited hereby approves the revised proposal for the sanctioned 9 Nos. establishment of 33/11 kV SS in Trichy Metro and Pudukottai EDCs of Trichy Region at a total estimated cost of Rs.7053.00 Lakhs Gross & Rs.6941.10 lakhs Nett. by superseding the approval already accorded as detailed below:

Sl. No.	Name of EDC	Name of the 33/11 kV SS	Already approved vide BP.No. & date
1.	Trichy/Metro	O.Krishnapuram	32/28.03.2025
2.	Trichy/Metro	Nadupatty	32/28.03.2025
3.	Trichy/Metro	Valasiramani	08/11.01.2024
4.	Trichy/Metro	Thirupanjeeli	96/14.06.2024
5.	Pudukottai	Visalur	32/28.03.2025
6.	Pudukottai	Kulipirai	63/31.05.2025
7.	Pudukottai	Vendhanpatty	32/28.03.2025
8.	Pudukottai	Manamadai	252/14.12.2022
9.	Pudukottai	Mathagam	32/28.03.2025

The detailed estimates and report are annexed to these proceedings.

2. The expenditure is chargeable to TNPDCCL - Funds - Capital Expenditure - Trichy Region - 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 TNPDCCL being the Licensee and successor entity of Tamilnadu 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/Trichy 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/Trichy Metro EDC

The Superintending Engineer/Pudukottai 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//


Executive Engineer/Master Plan II

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages revised proposal for the sanctioned 9 Nos. establishment of 33/11 kV SS in Trichy Region at a total estimated cost of Rs.7053.00 Lakhs Gross & Rs.6941.10 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 meanwhile, 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.SoR25-26/ 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 Trichy Region and the details of original sanction and the revised estimated cost in respect of 9 Nos. establishment of 33/11 kV SS are as below:

Sl No	Name of EDC	Name of the 33/11 kV SS	Sanctioned vide BP.No and date	Sanctioned Amount in lakhs	Revised estimate cost in Lakhs	% increase
1.	Trichy/ Metro	O.Krishnapuram	32/28.03.2025	663.06	763.41	15.13
2.	Trichy/ Metro	Nadupatty	32/28.03.2025	672.55 (G) & 570.52 (N)	746.58 (G) & 634.67 (N)	11.01
3.	Trichy/ Metro	Valasiramani	08/11.01.2024	671.55	801.61	19.37

4.	Trichy Metro	Thirupanjeeli	96/14.6.2024	657.88	796.01	21.0
5.	Pudukottai	Visalur	32/28.03.2025	733.19	800.96	9.24
6.	Pudukottai	Kulipirai	63/31.05.2025	797.57	871.28	9.24
7.	Pudukottai	Vendhanpatty	32/28.03.2025	807.92	962.78	19.17
8.	Pudukottai	Manamada	252/14.12.202 2	546.53	651.12	19.13
9.	Pudukottai	Mathagam	32/28.03.2025	603.46	659.25	9.24
			Total	6153.71 (G) & 6051.68 (N)	7053.00 (G) & 6941.10 (N)	

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.


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ABSTRACT

SL. NO	DESCRIPTION	COST IN LAKHS	
		GROSS	NETT
	Trichy Region		
I	Trichy Metro EDC		
1	Establishment of 33/11 kV SS at O.Krishnapuram with 1x8 MVA power transformer in Trichy Metro EDC	763.41	763.41
2	Establishment of 33/11 kV SS at Nadupatty with 2x8 MVA power transformers in Trichy Metro EDC	746.58	634.67
3	Establishment of 33/11 kV SS at Valasiramani with 2x8 MVA power transformers in Trichy Metro EDC	801.61	801.61
4	Establishment of 33/11 kV SS at Thirupanjeeli with 2x8 MVA power transformers in Trichy Metro EDC	796.01	796.01
II	Pudukottai EDC		
5	Establishment of 33/11 kV SS at Visalur with 1x8 MVA power transformer in Pudukottai EDC	800.96	800.96
6	Establishment of 33/11 kV SS at Kuzhipirai with 2x8 MVA power transformers in Pudukottai EDC	871.28	871.28
7	Establishment of 33/11 kV SS at Vendhanpatty with 2x8 MVA power transformers in Pudukottai EDC	962.78	962.78
8	Establishment of 33/11 kV SS at Manamadai with 2x8 MVA power transformers in Pudukottai EDC	651.12	651.12
9	Establishment of 33/11 kV SS at Mathagam with 2x8 MVA power transformers in Pudukottai EDC	659.25	659.25
	Total	7053.00	6941.10


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**REVISED ESTIMATE FOR FOR ESTABLISHMENT OF 33/11 KV SS AT O.KRISHNAPURAM WITH 1x8 MVA
POWER TRANSFORMER IN TRICHY METRO 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)				8.220	
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				183.220	183.22
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+ 4 fdrs)	5 Nos	1.626	E	8.130	
7	11 kV CTS	15 Nos	0.250	E	3.750	
8	11 kV AB Switch	10 Nos	0.236	E	2.360	
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	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 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	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				81.994	
24	Contingencies @ 1%				0.820	
25	Total for materials				82.814	
26	Labour and Transport charges @ 15%				12.422	
27	GST on labour & transport @ 18%				2.236	
28	Total for material and labour				97.472	
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	8.000	Loc	8.000	
31	Earthing	1 Loc	0.500	Loc	0.500	
32	Subtotal				194.346	
33	Estt & Sup. Charges 15%				29.152	
34	Subtotal				223.498	223.50
35	Plinth for breakers	6 Nos.	2.500	E	15.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	9.5 kms.	8.000	km	76.000	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	Erection of 33 kV line with Dog conductor from Koppampatty 110 kV SS to the proposed O.Krishnapuram 33/11 kV SS	13.9 kms.	12.000	Loc	166.800	
41	Subtotal				356.69	356.69
42	Total Gross & Nett.					763.41

REVISED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT NADUPATTY WITH 2x8 MVA POWER TRANSFORMER IN TRICHY METRO 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)				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	180.00	
3	Construction of fire protection wall			LS	3.000	
3	Total				183.000	183.00
II	Electrical Works					
1	33 kV AB Switch	4 Nos.	0.466	E	1.864	
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	6 Nos	0.038	E	0.228	
6	11 kV Breaker (2 LV+ 6 fdrs)	8 Nos	1.626	E	13.008	
7	11 kV CTS	24 Nos	0.250	E	6.000	
8	11 kV AB Switch	15 Nos	0.236	E	3.540	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	6 Nos	0.018	E	0.108	
11	11 kV LAS distn. Type	18 Nos	0.008	E	0.144	
12	Earthing painting and Yard lighting			LS	10.000	
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	17.000	
20	DC panel	1 No	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				92.984	
24	Contingencies @ 1%				0.930	
25	Total for materials				93.914	
26	Labour and Transport charges @ 15%				14.087	
27	GST on labour & transport @ 18%				2.536	
28	Total for material and labour				110.537	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374	E	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				304.285	
33	Estt & Sup. Charges 15%				45.643	
34	Subtotal				349.927	349.93
35	Plinth for breakers	9 Nos.	2.500	E	22.500	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	1.8 kms.	8.000	km	14.400	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	Strengthening of 33 kV line with Dog conductor from Vaiyampatty 110 kV SS to Nadupatty 33/11 kV SS	6.022 kms.	12.000	Loc	72.264	
41	Subtotal				208.05	208.05
42	Add dismantling charges					5.60
43	Gross					746.58
44	Less credit					111.90
45	Nett					634.67

Part I (a) : Dismantling Charges

1 Dismantling Charges

5.595

lakhs

REVISED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT NADUPATTY WITH 2x8 MVA POWER TRANSFORMER IN TRICHY METRO EDC

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	DESCRIPTION	Original cost of asset	Full Life Period	Useful Life Period	Accum. depre.
1	Item no 1 to 6	65.919	25	39	59.327
2	33 kV Raccoon conductor	45.707	35	55	41.136
3	30V battery with charger	0.276	5	10	0.248
4	Total	111.901			100.71

Part III : Devolution of old equipment to store

Part III: Part IV - Part II = 111.90 - 100.71 = **11.190** 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	12.5 MVA power transformer *	1 No.	44.187	4.419	7.291	55.897
2	33 kV breaker **	1 No.	1.465	0.147	0.242	1.853
3	33 kV CTs **	3 Nos	0.462	0.046	0.076	0.584
4	11 kV breakers **	4 Nos	3.252	0.325	0.537	4.114
5	11 kV CT **	3 Nos	0.375	0.038	0.062	0.474
6	Station transformer 100 KVA, 11 kV/433 V **	1 No	2.369	0.237	0.391	2.996
7	33 kV Raccoon conductor **	6.022 kms	36.132	3.613	5.962	45.707
8	30 V battery with charger ***		0.218	0.022	0.036	0.276
	Total					111.901

*As the rate of 12.5 MVA power transformer is not available, 50% rate of 8 MVA power transformer (cost data 2025-26) has been

** 50% rate of cost data 2025-26 has been adopted.

*** 50% rate as per cost data 2012-13 has been adopted.

ABSTRACT

	Rs in Lakhs
Part I : New Asset Chargeable to Capital	746.58 Gross
	634.67 Nett
Part I (a) : Dismantling Charges	5.595
Part II : Accumulated Depreciation Charges	100.71
Part III : Devolution of old equipment to store	11.19
Part IV : Removal of old assets Charges	111.90

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS WITH 2x8 MVA POWER
TRANSFORMERS AT VALASIRAMANI 33/11 KV SS IN TRICHY METRO 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)				4.550	
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	180.00	
3	Construction of fire protection wall			LS	3.000	
4	Total				187.550	187.55
II	Electrical Works					
1	33 kV AB Switch	4 Nos	0.466	E	1.864	
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	6 Nos	0.038	E	0.228	
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	S	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 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	17.000	
20	DC panel	1 No	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				87.240	
24	Contingencies @ 1%				0.872	
25	Total for materials				88.112	
26	Labour and Transport charges @ 15%				13.217	
27	GST on labour & transport @ 18%				2.379	
28	Total for material and labour				103.708	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374	E	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				297.456	
33	Estt & Sup. Charges 15%				44.618	
34	Subtotal				342.075	342.07
35	Plinth for breakers	7 Nos.	2.500	E	17.500	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	8.2 kms.	8.000	km	65.600	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with ACSR dog conductor from Thatthiengarpet 110 KV SS to the proposed Valasiramani 33/11 KV SS	7.5 kms.	12.000	Loc	90.000	
41	Subtotal				271.99	271.99
42	Total Gross & Nett.					801.61

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA POWER
TRANSFORMERS AT THIRUPANJEELI 33/11 kV SS IN TRICHY METRO 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)				4.550	
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	180.00	
3	Construction of fire protection wall			LS	3.000	
4	Total				187.550	187.55
II	Electrical Works					
1	33 kV AB Switch	4 Nos	0.466	E	1.864	
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	6 Nos	0.038	E	0.228	
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	S	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 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	17.000	
20	DC panel	1 No	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				87.240	
24	Contingencies @ 1%				0.872	
25	Total for materials				88.112	
26	Labour and Transport charges @ 15%				13.217	
27	GST on labour & transport @ 18%				2.379	
28	Total for material and labour				103.708	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374	E	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				297.456	
33	Estt & Sup. Charges 15%				44.618	
34	Subtotal				342.075	342.07
35	Plinth for breakers	7 Nos.	2.500	E	17.500	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	7.5 kms.	8.000	km	60.000	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with ACSR Dog conductor from Vengaimandalam 110 kV SS to the proposed Thirupanjeeli 33/11 kV SS	7.5 kms.	12.000	Loc	90.000	
41	33 kV bay extension at Vengaimandalam 110 kV SS *	1 No			0.000	
42	Subtotal				266.39	266.39
43	Total Gross & Nett.					796.01

* - 33 kV bay extension at Vengaimandalam 110 kV SS is under the scope of TANTRANSCO

REVISED ESTIMATE FOR FOR ESTABLISHMENT OF 33/11 KV SS AT VISALUR WITH 1x8 MVA POWER TRANSFORMER IN PUDUKOTTAI 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)				1.770	
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	175.00	
3	Total				176.770	176.77
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+ 4 fdrs)	5 Nos	1.626	E	8.130	
7	11 kV CTS	15 Nos	0.250	E	3.750	
8	11 kV AB Switch	10 Nos	0.236	E	2.360	
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	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 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	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				81.994	
24	Contingencies @ 1%				0.820	
25	Total for materials				82.814	
26	Labour and Transport charges @ 15%				12.422	
27	GST on labour & transport @ 18%				2.236	
28	Total for material and labour				97.472	
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	8.000	Loc	8.000	
31	Earthing	1 Loc	0.500	Loc	0.500	
32	Subtotal				194.346	
33	Estt & Sup. Charges 15%				29.152	
34	Subtotal				223.498	223.50
35	Plinth for breakers	6 Nos.	2.500	E	15.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	10.2 kms.	8.00	km	81.600	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	Erection of 33 kV line with Dog conductor from the existing T.Nallur 110/33-11 kV SS to the proposed SS	17.1 kms.	12.000	Loc	205.20	
41	Subtotal				400.69	400.69
42	Total Gross & Nett.					800.96

REVISED ESTIMATE FOR FOR ESTABLISHMENT OF 33/11 KV SS AT KULIPIRAI WITH 2x8 MVA POWER TRANSFORMERS IN PUDUKOTTAI 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)				1.820	
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	180.00	
3	Construction of fire protection wall			LS	3.000	
4	Total				184.820	184.82
II	Electrical Works					
1	33 kV AB Switch	4 Nos	0.466	E	1.864	
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	6 Nos	0.038	E	0.228	
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	S	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 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	17.000	
20	DC panel	1 No	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				87.240	
24	Contingencies @ 1%				0.872	
25	Total for materials				88.112	
26	Labour and Transport charges @ 15%				13.217	
27	GST on labour & transport @ 18%				2.379	
28	Total for material and labour				103.708	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374	E	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				297.456	
33	Estt & Sup. Charges 15%				44.618	
34	Subtotal				342.075	342.07
35	Plinth for breakers	7 Nos.	2.500	E	17.500	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	9 kms.	8.00	km	72.000	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor	13 kms.	12.000	Loc	156.000	
41	Extension of 33 kV bay at Konnaiyur 110 kV SS *	1 Loc			0.000	
42	Subtotal				344.39	344.39
43	Total Gross & Nett.					871.28

* - 33 kV bay extension at Konnaiyur 110 kV SS is under the scope of TANTRANCO

REVISED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT VENTHANPATTY WITH 2x8 MVA POWER TRANSFORMER IN PUDUKOTTAI 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)				3.711	
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	180.00	
3	Construction of fire protection wall			LS	3.000	
4	Total				186.711	186.71
II	Electrical Works					
1	33 kV AB Switch	4 Nos	0.466	E	1.864	
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	6 Nos	0.038	E	0.228	
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	S	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 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	17.000	
20	DC panel	1 No	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				87.240	
24	Contingencies @ 1%				0.872	
25	Total for materials				88.112	
26	Labour and Transport charges @ 15%				13.217	
27	GST on labour & transport @ 18%				2.379	
28	Total for material and labour				103.708	
29	8 MVA, 33/11 kV Pr. Tr. with OLTC	2 Nos	88.374	E	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				297.456	
33	Estt & Sup. Charges 15%				44.618	
34	Subtotal				342.075	342.07
35	Plinth for breakers	7 Nos.	2.500	E	17.500	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	8.6 kms.	8.000	km	68.800	
40	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
41	Erection of 33 kV line with Dog conductor from Konnaiyur 110 kV SS to the proposed Venthanpatty 33/11 kV SS	20.734 kms.	12.000	Loc	248.808	
42	Subtotal				434.00	434.00
43	Total Gross & Nett.					962.78

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA POWER
TRANSFORMER AT MANAMADAI IN PUDUKOTTAI 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)				4.332	
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				179.332	179.33
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+ 4 fdrs)	5 Nos	1.626	E	8.130	
7	11 kV CTS	15 Nos	0.250	E	3.750	
8	11 kV AB Switch	10 Nos	0.236	E	2.360	
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	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 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	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				81.994	
24	Contingencies @ 1%				0.820	
25	Total for materials				82.814	
26	Labour and Transport charges @ 15%				12.422	
27	GST on labour & transport @ 18%				2.236	
28	Total for material and labour				97.472	
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	8.000	Loc	8.000	
31	Earthing	1 Loc	0.500	Loc	0.500	
32	Subtotal				194.346	
33	Estt & Sup. Charges 15%				29.152	
34	Subtotal				223.498	223.50
35	Plinth for breakers	6 Nos.	2.500	E	15.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	4.2 kms.	8.00	km	33.600	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	Erection of 33 kV line with Dog conductor from Uranipuram 110 kV SS to the proposed Manamadai 33/11 kV SS	8.4 kms.	12.000	Loc	100.800	
41	Subtotal				248.29	248.29
42	Total Gross & Nett.					651.12

REVISED ESTIMATE FOR FOR ESTABLISHMENT OF 33/11 KV SS AT MATHAGAM WITH 1x8 MVA POWER TRANSFORMER IN PUDUKOTTAI 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)				0.740	
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	175.00	
3	Total				175.74	175.74
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+ 4 fdrs)	5 Nos	1.626	E	8.130	
7	11 kV CTS	15 Nos	0.250	E	3.750	
8	11 kV AB Switch	10 Nos	0.236	E	2.360	
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	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 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	0.98	E	0.980	
21	AC panel	1 No	1.028	E	1.028	
22	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
23	Sub Total				81.994	
24	Contingencies @ 1%				0.820	
25	Total for materials				82.814	
26	Labour and Transport charges @ 15%				12.422	
27	GST on labour & transport @ 18%				2.236	
28	Total for material and labour				97.472	
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	8.000	Loc	8.000	
31	Earthing	1 Loc	0.500	Loc	0.500	
32	Subtotal				194.346	
33	Estt & Sup. Charges 15%				29.152	
34	Subtotal				223.498	
35	Plinth for breakers	6 Nos.	2.500	E	15.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
38	11 kV Link line with 7/4.09 ACSR	13 kms.	8.00	km	104.000	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	Erection of 33 kV line with Dog conductor from Kurungalur village to the proposed Mathagam 33/11 kV SS	3.51 kms.	12.000	Loc	42.120	
41	Subtotal				260.01	260.01
42	Total Gross & Nett.					659.25

