

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

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

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No. 41

Dated: 16.06.2026

Sri Parabava varudam

Aani : 02

Thiruvalluvar Aandu 2057.

READ: Chairman cum Managing Director's approval dated: 12.06.2026.

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 Madurai Region at a total estimated cost of Rs.8621.63 Lakhs Gross & Rs.8567.49 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.	Madurai	SIDCO (Uchapatti)	33/28.03.2025
2.	Madurai	Vellalore (Kottananthampatty)	33/28.03.2025
3.	Madurai	Mathur	237/05.12.2022
4.	Madurai	Pappapatty	236/05.12.2022
5.	Madurai Metro	Muthupatty	33/28.03.2025
6.	Madurai Metro	Sellur	33/28.03.2025
7.	Ramnad	Thiru Uthiragosamangai	185/16.08.2023
8.	Ramnad	Keelaramanthi	36/03.03.2023
9.	Ramnad	Kovilankulam	99/14.06.2024

The detailed estimates and report are annexed to these proceedings.

2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure - Madurai 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 TNPDC 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/Madurai 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/Madurai EDC

The Superintending Engineer/Madurai Metro EDC

The Superintending Engineer/Ramnad 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 Madurai Region at a total **estimated** cost of Rs.8621.63 Lakhs Gross & Rs.8567.49 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.

The provision which were made in the original estimate for 9 Nos. schemes has been modified as detailed below;

i) Sellur 33/11 kV SS:

Originally, the proposed 33 kV source line is proposed to be erected via Madurai GH road. However, due to over bridge construction at Devar Statue, road widening works near GH and the proposed Metro Rail project, erection of the 33 kV source line along the approved route is not feasible. Hence, alternate route through Vaigai Vadakarai has been identified. In the revised

route, to have adequate clearance in bridge & major signal junction, 33 kV line with RSJ pole and mini towers are proposed at two locations. Further, UG cable is proposed for a distance of 0.882 kms. due to way leave problem and safety point of view.

ii) Muthupatty 33/11 kV SS:

In the sanction already accorded, it has been proposed to convert the existing 66 kV dummy line with Panther conductor into Dog conductor on the same support (lattice towers) for a distance of 3.8 kms. However, more no. of buildings were constructed under the above 66 kV dummy line and the above line also passes through Government Middle school and is without adequate clearance. In safety point of view, it has been proposed to erect new 33 kV line with RSJ pole for a distance of 3.72 kms. in a revised route and 2 Nos. of Mini Tower are proposed where HT line crossing/road crossing are involved. Laying of 33 kV UG cable for distance of 0.62 kms. has been proposed in Railway bridge crossing location.

iii) SIDCO (Uchapatti) 33/11 kV SS:

In the original sanction, provision towards erection of 33 kV line with Dog conductor on 9 mtrs. as per standard has been made in the estimate. However, due to multiple HT line crossing at Source SS end, it has been proposed to lay 33 kV 1x630 Sq. mm. UG cable for a distance of 0.17 kms. The alternate Source to the 33 kV AIIMS HT service (normally fed from Checkanurani 110 kV SS) is proposed to be extended from the proposed SIDCO 33/11 kV SS in future. Hence, to have reliable and uninterrupted supply to AIIMS, it has been proposed to provide 3 runs for spare 33 kV cable in the above location. As it is an industrial area & movement of heavy loaded vehicle is more, 33 kV line with RSJ pole is proposed. The proposed 33 kV line is proposed to cross the Madurai - Kanyakumari 4 way Road, 2 Nos. of mini towers are proposed to be provided in the above location. Further, UG cable is proposed to be provided in Railway crossing location in one of the proposed 11 kV line.

iv) Pappapatty 33/11 kV SS:

In the original sanction, provision towards erection of 33 kV line with Dog conductor on 9 mtrs. PSC pole as per standard has been made in the estimate. Out of the proposed 3.745 kms. of 33 kV Source line, it has been proposed to erect 33 kV line with RSJ pole due to HT line

crossing for a distance of 1.26 kms. Further, 11 kV link line is proposed with RSJ pole, as it is to be erected in narrow road.

v) Mathur 33/11 kV SS:

In the original sanction, provision towards erection of 33 kV line with Dog conductor on 9 mtrs. PSC pole as per standard has been made in the estimate. As the proposed 33 kV line is proposed to be erected along the adjacent low lying path in the Madurai -Trichy NH 4 Way road & Vadipatty - Chittampatty 4 Way outer ring road, to maintain adequate clearance, 33 kV line with RSJ pole is proposed to be provided. Further, as it involves Madurai - Trichy NH 4 way road crossing at two locations, provision towards 4 Nos. mini towers are made.

vi) Kottanathampatty 33/11 kV SS:

In the original sanction, provision towards erection of 33 kV line with Dog conductor on 9 mtrs. PSC pole as per standard has been made in the estimate. Out of the proposed 6.907 kms. of 33 kV Source line, it has been proposed to erect 33 kV line with RSJ pole for a distance of 0.5 kms. due to 33 kV Solar feeder & 11 kV feeder crossings.

vii) T.U.Mangai 33/11 kV SS:

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

viii) Keelaramanthi 33/11 kV SS:

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

ix) Kovilankulam 33/11 kV SS:

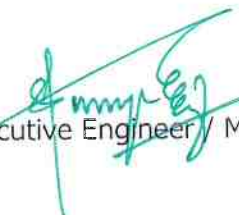
The rates has been revised as per schedule of rates for the year 2025-26.

Accordingly, the estimate for the above schemes has been revised for Madurai 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 SS	Sanctioned vide BP.No and date	Sanctioned Amount in Rs. lakhs	Revised estimate cost in Rs. Lakhs	% increase
1.	Madurai	SIDCO (Uchapatti)	33/28.03.2025	836.45	963.94	15.24
2.	Madurai	Vellalore (Kottanathampatty)	33/28.03.2025	692.31	772.56	11.59
3.	Madurai	Mathur	237/05.12.2022	663.87	894.29	34.71
4.	Madurai	Pappapatty	236/05.12.2022	464.85	604.26	29.99
5.	Madurai /Metro	Muthupatty	33/28.03.2025	1587.51	1696.25	6.85
6.	Madurai /Metro	Sellur	33/28.03.2025	1136.54	1341.25	18.01
7.	Ramnad	T.U.Mangai	185/16.08.2023	658.09	758.96	15.33
8.	Ramnad	Keelaramanthi	36/03.03.2023	652.31 (G) & 619.63 (N)	742.34	13.80
9.	Ramnad	Kovilankulam	99/14.06.2024	699.98 (G) & 680.17 (N)	847.79	21.12
			Total	7391.91(G) & 7339.42 (N)	8621.63(G) & 8567.49(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.


Executive Engineer / Master Plan II

ABSTRACT

SL. NO	DESCRIPTION	COST IN LAKHS	
		GROSS	NETT
	Madurai Region		
I	Madurai EDC		
1	Establishment of SIDCO 33/11 kV SS at Uchapatti with 2x8 MVA power transformers in Madurai EDC of Madurai Region	963.94	963.94
2	Establishment of 33/11 kV SS at Vellalore (Kottanathampatty) with 2x8 MVA power transformer in Madurai EDC of Madurai Region	772.56	772.56
3	Establishment of 33/11 kV SS at Mathur with 1x8 MVA power transformer in Madurai EDC of Madurai Region	894.29	894.29
4	Establishment of 33/11 kV SS at Pappapatty with 1x8 MVA power transformer in Madurai EDC of Madurai Region	604.26	604.26
II	Madurai Metro EDC		
1	Establishment of Muthupatty 33/11 kV indoor SS at Maadakulam with 2x8 MVA power transformers in Madurai EDC/Metro of Madurai Region	1696.25	1696.25
2	Establishment of Sellur 33/11 kV indoor SS at North Madurai with 2x8 MVA power transformers in Madurai EDC/Metro of Madurai Region	1341.25	1341.25
III	Ramnad EDC		
1	Establishment of 33/11 kV SS at T.U.Mangai with 1x8 MVA power transformer in Ramnad EDC of Madurai Region	758.96	758.96
2	Establishment of 33/11 kV SS at Keelaramanathi with 1x8 MVA power transformer in Ramnad EDC of Madurai Region	742.34	709.13
3	Establishment of 33/11 kV SS at Kovilankulam with 1x8 MVA power transformer in Ramnad EDC of Madurai Region	847.79	826.86
	Total	8621.63	8567.49



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REVISED ESTIMATE FOR ESTABLISHMENT OF SIDCO 33/11 KV SS AT UCHAPATTI WITH 2x8 MVA POWER TRANSFORMERS IN MADURAI 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)				187.853	
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				370.853	370.85
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	8.000	
13	Control cable			LS	7.000	
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				81.095	
24	Contingencies @ 1%				0.811	
25	Total for materials				81.906	
26	Labour and Transport charges @ 15%				12.286	
27	GST on labour & transport @ 18%				2.211	
28	Total for material and labour				96.403	
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				290.151	
33	Estt & Sup. Charges 15%				43.523	
34	Sub Total				333.674	
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	5.258 kms.	8.000	km	42.064	
39	11 kV, 3x300 Sq. mm. UG cable for Railway crossing	0.1 kms.	73.11	km	7.311	
40	11 kV Railway crossing DP			LS	2.000	
41	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
42	33 kV line with Dog conductor with RSJ pole	1.9 kms.	18.610	Loc	35.359	
43	Laying of 33 kV, 1x630 sq.mm XLPE UG cable (2 runs*0.17 kms.)	0.34 kms	90.73	km	30.85	
44	Erection of mini tower in 33 kV Source feeder	2 Loc	10.000	E	20.00	
45	33 kV DP Structures in 33 kV Source feeder	2 Loc	2.72	Loc	5.440	
46	Subtotal				259.41	
47	Total Gross & Nett.					259.41
						963.94

**REVISED ESTIMATE FOR FOR ESTABLISHMENT OF 33/11 KV SS AT VELLALORE (KOTTANATHAMPATTY)
WITH 2x8 MVA POWER TRANSFORMERS IN MADURAI 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)				1.114	
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	Additional provision towards yard filling etc.				15.000	
4	Construction of fire protection wall			LS	3.000	
5	Total				199.114	199.11
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	8.000	
13	Control cable			LS	7.000	
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				82.240	
24	Contingencies @ 1%				0.822	
25	Total for materials				83.062	
26	Labour and Transport charges @ 15%				12.459	
27	GST on labour & transport @ 18%				2.243	
28	Total for material and labour				97.764	
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				291.512	
33	Estt & Sup. Charges 15%				43.727	
34	Sub Total				335.239	335.24
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	3.774 kms.	8.000	km	30.192	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor on 9 m PSC pole	6.407 kms.	12.000	kms	76.884	
41	33 kV line with Dog conductor on RSJ pole	0.5 kms.	18.610	kms	9.305	
42	33 kV DP Structures in 33 kV Source feeder	2 Loc	2.72	Loc	5.440	
43	Subtotal				238.21	238.21
44	Total Gross & Nett.					772.56

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT MATHUR WITH 1x8 MVA POWER TRANSFORMER IN MADURAI 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)				43.850	
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				218.850	218.85
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	Plinth for breakers	6 Nos.	2.000	E	12.000	
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	0.98	E	0.980	
22	AC panel	1 No	1.028	E	1.028	
23	110 V DC Annunciator Panel	1 No.	1.145	E	1.145	
24	Sub Total				93.994	
25	Contingencies @ 1%				0.940	
26	Total for materials				94.934	
27	Labour and Transport charges @ 15%				14.240	
28	GST on labour & transport @ 18%				2.563	
29	Total for material and labour				111.737	
30	8 MVA, 33/11 kV Pr. Tr. with OLTC	1 No	88.374	E	88.374	
31	Labour and transport including GST	1 Loc	8.000	Loc	8.000	
32	Earthing	1 Loc	0.500	Loc	0.500	
33	Subtotal				208.611	
34	Estt & Sup. Charges 15%				31.292	
35	Subtotal				239.903	239.90
36	Plinth for breakers	6 Nos.	2.500	E	15.000	
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	7.098 kms.	8.000	km	56.784	
40	Erection of mini tower in 11 kV line	2 Loc	10.000	E	20.00	
41	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
42	33 kV line with Dog conductor on RSJ pole	3.69 kms.	20.100	Loc	74.169	
43	33 kV line with Dog conductor on RSJ pole	6.438 kms.	18.610	Loc	119.811	
44	Erection of mini tower in 33 kV Source feeder	4 Loc	10.000	E	40.00	
45	Extension of 33 kV bay at Narasingampatty 110 kV SS *	1 Loc			0.000	
46	33 kV DP Structures in 33 kV Source feeder	4 Loc	2.72	Loc	10.880	
47	Subtotal				435.53	435.53
48	Total Gross & Nett.					894.29

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

**DETAILED ESTIMATE FOR ESTABLISHMENT OF PAPPAPATTY 33/11 KV SS AT THIMMANATHAM WITH
1x8 MVA POWER TRANSFORMER IN MADURAI 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)				5.255	
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				180.255	180.26
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	
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	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 set	33.791	set	33.791	
23	Sub Total				151.003	
24	Contingencies @ 1%				1.510	
25	Total for materials				152.513	
26	Labour and Transport charges @ 15%				22.877	
27	GST on labour & transport @ 18%				4.118	
28	Total for material and labour				179.508	
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				276.382	
33	Estt & Sup. Charges 15%				41.457	
34	Subtotal				317.839	
35	Plinth for breakers	5 Nos.	2.500	E	12.500	
36	33 kV Structure	1 set	38.090	set	0.000	
37	11 kV Structure	1 set	33.791	set	0.000	
38	11 kV Link line with 7/4.09 ACSR with RSJ pole	0.593 kms.	13.400	km	7.946	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor on PSC pole	2.485 kms.	12.000	kms	29.820	
41	33 kV line with Dog conductor on RSJ pole	1.26 kms.	18.610	kms	23.449	
42	33 kV DP Structures in 33 kV Source feeder	2 Loc	2.72	Loc	5.440	
43	Subtotal				106.16	
44	Total Gross & Nett.					604.26

**DETAILED ESTIMATE FOR ESTABLISHMENT OF MUTHUPATTY 33/11 KV INDOOR SS AT
MAADAKULAM WITH 2X8 MVA POWER TRANSFORMERS IN MADURAI EDC/METRO OF
MADURAI REGION**

Rs in Lakhs					
Sl.No	DESCRIPTION	QUANTITY	RATE	PER	TOTAL AMOUNT
I	CIVIL WORKS				
1	Land cost (actuals)				547.00
2	Control Room building with pile foundation, Transformer plinth, fire protection wall, RCC cable duct, RCC approach road, Water system including Sump and septic tank, compound wall, gravel filling for yard etc..			LS	270.00
3	Total for civil works				817.00
II	Electrical Works				
1	33 KV VCB Indoor (Transformer HV)	2 Nos.	15.042	E	30.084
2	33 KV VCB Indoor feeder(Incoming - 2 Nos.)	2 Nos.	14.182	E	28.364
3	33 KV VCB Indoor (Bus coupler)	1 No.	18.185	E	18.185
4	33 KV Bus Adapter	1 No.	1.954	E	1.954
5	11 KV VCB Indoor (Transformer LV)	2 Nos.	6.863	E	13.726
6	11 KV VCB Indoor (for 4 nos. Feeder + 2 nos. spare)	6 Nos.	5.719	E	34.314
7	11 KV VCB Indoor (Bus coupler)	1 No.	7.623	E	7.623
8	11 KV Bus Adapter	1 No.	1.659	E	1.659
9	Control cable			LS	10.000
10	100 KVA, 11 KV/433 V Distribution Transformer with structure	1 Set	4.737	Set	4.737
11	110 V Battery set (1 no.) with 2 Chargers.			Set	9.249
12	AC Panel	1 No.	0.98	E	0.980
13	DC Panel	1 No.	1.028	E	1.028
14	Annunciator Panel	1 No.	1.145	E	1.145
15	Earthing, Painting & Yard lighting	1 Set	8.000	Set	8.000
16	Fire fighting equipment	1 Set		LS	3.000
17	VHF Communication	1 Set		LS	2.400
18	P & T phone	1 No.		E	0.100
19	SCADA			LS	20.000
20	Scientific instruments			LS	5.000
21	T & P materials and Furniture			LS	4.000
22	33 kV, 1x630 sqmm XLPE cable with accessories with termination kit			LS	10.000
23	11 kV, 1x630 sqmm XLPE cable with accessories with termination kit			LS	10.000
24	Electrification Ground and first floor			LS	10.000
25	Erection of 5 way RMU for tie-arrangement in SS	3 Nos.	15.999	E	47.997

**DETAILED ESTIMATE FOR ESTABLISHMENT OF MUTHUPATTY 33/11 KV INDOOR SS AT
MAADAKULAM WITH 2X8 MVA POWER TRANSFORMERS IN MADURAI EDC/METRO OF
MADURAI REGION**

Rs in Lakhs					
Sl.No	DESCRIPTION	QUANTITY	RATE	PER	TOTAL AMOUNT
26	Erection of 3 way RMU for backfeeding arrangement	3 Nos.	11.477	E	34.431
27	Cost of materials				317.976
28	Contingencies @ 1%				3.180
29	Sub total				321.156
30	Labour and Transport charges @ 15%				48.173
31	GST on labour & transport @ 18%				8.671
32	Sub total				378.000
33	8 MVA, 33/11 KV power transformer with OLTC (Indoor)	2 Nos.	88.374	E	176.748
34	Labour & Transport for trs including GST	2 Nos.	8.000	Tr	16.000
35	Earthing	2 Nos.	0.500	Tr	1.000
36	Sub Total				571.748
37	Estt & Supervision charges @15 %				85.762
38	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	Set	27.008
39	Laying of 33 kV, 1x630 sq.mm XLPE UG cable	0.615 kms	90.73	km	55.80
40	Erection of 33 kV line with Dog conductor with RSJ Pole	3.72 kms	20.100	km	74.77
41	33 kV DP Structures in 33 kV Source feeder	3 Loc	2.72	Loc	8.160
42	Erection of mini tower in 33 kV Source feeder	2 Loc	10.000	E	20.00
43	11 kV Link line with 7/4.09 ACSR	2.00 kms.	8.000	km	16.000
44	33 kV & 11 kV structures along with AB switches			LS	20.000
45	Sub total				879.25
46	Total for Electrical works				879.25
47	Total for Civil works				817.00
48	Total Gross & Nett				1696.25

**DETAILED ESTIMATE FOR ESTABLISHMENT OF SELLUR 33/11 KV INDOOR SS AT NORTH
MADURAI VILLAGE WITH 2X8 MVA POWER TRANSFORMERS IN MADURAI EDC/METRO OF
MADURAI REGION**

Sl.No	DESCRIPTION	QUANTITY	RATE	Rs in Lakhs	
				PER	TOTAL AMOUNT
I	CIVIL WORKS				
1	Land cost (actuals)				163.94
2	Control Room building with pile foundation, Transformer plinth, fire protection wall, RCC cable duct, RCC approach road, Water system including Sump and septic tank, compound wall, gravel filling for vard etc..			LS	270.00
3	Total for civil works				433.94
II	Electrical Works				
1	33 KV VCB Indoor (Transformer HV)	2 Nos.	15.042	E	30.084
2	33 KV VCB Indoor feeder(Incoming - 2 Nos.)	2 Nos.	14.182	E	28.364
3	33 KV VCB Indoor (Bus coupler)	1 No.	18.185	E	18.185
4	33 KV Bus Adapter	1 No.	1.954	E	1.954
5	11 KV VCB Indoor (Transformer LV)	2 Nos.	6.863	E	13.726
6	11 KV VCB Indoor (for 4 nos. Feeder)	4 Nos.	5.719	E	22.876
7	11 KV VCB Indoor (Bus coupler)	1 No.	7.623	E	7.623
8	11 KV Bus Adapter	1 No.	1.659	E	1.659
9	Control cable			LS	7.000
10	100 KVA, 11 KV/433 V Distribution Transformer with structure	1 Set	4.737	Set	4.737
11	110 V Battery set (1 no.) with 2 Chargers.			Set	9.249
12	AC Panel	1 No.	0.98	E	1.011
13	DC Panel	1 No.	1.028	E	0.979
14	Annunciator Panel	1 No.	1.145	E	1.020
15	Earthing, Painting & Yard lighting	1 Set	8.000	Set	8.000
16	Fire fighting equipment	1 Set		LS	3.000
17	VHF Communication	1 Set		LS	2.400
18	P & T phone	1 No.		E	0.100
19	SCADA			LS	20.000
20	Scientific instruments			LS	5.000
21	T & P materials and Furniture			LS	4.000
22	33 kV, 1x630 sqmm XLPE cable with accessories with termination kit			LS	10.000
23	11 kV, 1x630 sqmm XLPE cable with accessories with termination kit			LS	10.000
24	Electrification Ground and first floor Erection of 5 way RMU for tie-arrangement in SS	1 No.	15.999	LS E	10.000 15.999
25	Erection of 3 way RMU for tie-arrangement in SS	4 Nos.	11.477	E	45.908

DETAILED ESTIMATE FOR ESTABLISHMENT OF SELLUR 33/11 KV INDOOR SS AT NORTH MADURAI VILLAGE WITH 2X8 MVA POWER TRANSFORMERS IN MADURAI EDC/METRO OF MADURAI REGION

Rs in Lakhs					
Sl.No	DESCRIPTION	QUANTITY	RATE	PER	TOTAL AMOUNT
26	Cost of materials				282.874
27	Contingencies @ 1%				2.829
28	Sub total				285.702
29	Labour and Transport charges @ 15%				42.855
30	GST on labour & transport @ 18%				7.714
31	Sub total				336.272
32	8 MVA, 33/11 KV power transformer with OLTC (Indoor)	2 Nos	88.374	E	176.748
33	Labour & Transport for trs including GST	2 Loc	8.000	Tr	16.000
34	Earthing	2 Loc	0.500	Tr	1.000
35	Sub Total				530.020
36	Estt & supervision charges @ 15 %				79.503
37	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	Set	27.008
38	Erection of 33 kV line with Dog conductor 40' with RSJ Pole	5.462 kms	19.600	km	107.06
39	Laying of 33 kV, 1x630 sq.mm XLPE UG cable	0.882 kms	90.725	km	80.02
40	Erection of mini tower in 33 kV Source feeder	4 Loc	10.000	E	40.00
41	33 kV DP Structures in 33 kV Source feeder	5 Loc	2.72	Loc	13.600
42	11 kV Link line with 7/4.09 ACSR	1.263 kms.	8.000	km	10.104
43	33 kV & 11 kV structures along with AB switches			LS	20.000
44	Sub total				907.31
45	Total for Electrical works				907.31
46	Total for Civil works				433.94
47	Total Gross & Nett				1341.25

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT T.U.MANGAI WITH 1x8 MVA POWER
TRANSFORMER IN RAMNAD 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)				33.000	
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	175.000	
3	Additional provision towards increase in foundation depth of control room & other structure foundation			LS	40.000	
4	Total				248.000	248.00
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	
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				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	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				190.932	
33	Estt & Sup. Charges 15%				28.640	
34	Subtotal				219.572	219.57
35	Plinth for breakers	5 Nos.	2.500	E	12.500	
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	4.08 kms.	8.000	km	32.640	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor	11.6 kms.	12.000	Loc	139.200	
41	33 kV DP Structures in 33 kV Source feeder	3 Loc	2.72	Loc	8.160	
42	Extension of 33 kV Bay at the existing Erwadi 110 kV SS *	1 Loc			0.000	
43	Subtotal				291.39	291.39
44	Total Gross & Nett.					758.96

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

REVISED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT KEELARAMANATHI WITH 1x8 MVA POWER TRANSFORMER IN RAMNAD 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)				0.620	
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				175.620	175.62
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	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				84.866	
24	Contingencies @ 1%				0.849	
25	Total for materials				85.715	
26	Labour and Transport charges @ 15%				12.857	
27	GST on labour & transport @ 18%				2.314	
28	Total for material and labour				100.886	
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				197.760	
33	Estt & Sup. Charges 15%				29.664	
34	Subtotal				227.424	227.42
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	9.591 kms.	8.000	km	76.728	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor	7.655 kms.	12.000	Loc	91.860	
41	33 kV DP Structures in 33 kV Source feeder	6 Loc	2.72	Loc	16.320	
42	Strengthening of existing Raccoon conductor with Dog conductor on the same support with insertion of poles at required locations	3.546 kms.			36.340	
43	Extension of 33 kV bay at the existing Kamudhi 110 kV SS *	1 Loc			0.000	
44	Subtotal				337.64	337.64
45	Dismantling charges					1.661

REVISED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT KEELARAMANATHI WITH 1x8 MVA POWER TRANSFORMER IN RAMNAD EDC

Part I: Cost of new asset

SL.NO	DESCRIPTION	QTY	RATE	PER	Rs. In Lakhs	
					AMOUNT	TOTAL
46	Total Gross					742.34
47	Less credit					33.21
48	Total Nett					709.13

Part I (a) : Dismantling Charges

1 Dismantling Charges = **1.661 lakhs**

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	Released materials as per Part - IV except SL.No.15	24.07	25	28	21.662
2	ACSR 7/4.09 mm conductor	9.14	35	26	6.114
3	Total	24.07			27.776

PART III-Devolution of old asset - Debit to stock

(PART IV-PART II)

5.438 lakhs

PART IV - Removal of old assets Charges

Sl.No	Description	Qty	Original cost in lakhs *	Original erection charges	Original centages	Original Cost of Asset
1	3.15 MVA, 33/11 kV Pr. Tr. **	1	8.143	0.814	1.344	10.301
2	3 MVA, 33/11 kV Pr. Tr. **	1	8.143	0.814	1.344	10.301
3	33 kV AB Switch	2	0.466	0.047	0.077	0.589
4	33 kV HG fuse set	2	0.031	0.003	0.005	0.040
5	33 kV LAs (Station type)	3	0.057	0.006	0.009	0.072
6	11 kV AB Switch	3	0.354	0.035	0.058	0.448
7	11 kV HG fuse set	2	0.02	0.002	0.004	0.030
8	11 kV LAs (Distn. type)	6	0.024	0.002	0.004	0.030
9	9.14 mtrs. RCC Pole (grill scrap)	6	0.012	0.001	0.002	0.015
10	Metering set 100/5A	1	0.361	0.036	0.060	0.457
11	Metering set 200/5A	1	0.361	0.036	0.060	0.457
12	33 kV & 11 kV Structures (Scrap)	1	0.500	0.050	0.083	0.633
13	Structure earthing	1	0.050	0.005	0.008	0.063
14	Bus bar materials such as Disc insulators, jumpering materials etc.	1	0.500	0.050	0.083	0.633
15	ACSR 7/4.09 mm conductor in km	18.411	7.229	0.723	1.193	9.144
16	Total					33.213

* 50% rate as per present cost data has been adopted.

** - Since rate for 3 MVA, 33/11 kV Pr. Tr. & 3.15 MVA, 33/11 kV Pr. Tr. are not available, 50% of rate of 5 MVA, 33/11 kV Pr. Tr. as per cost data 2006-07 has been adopted.

ABSTRACT

Part I : New Asset Charges

Rs in Lakhs

742.34

Part I (a) : Dismantling Charges

709.13

Part II : Accumulated Depreciation Charges

1.66

Part III :Devolution of old equipment to store

27.78

Part IV : Removal of old assets Charges

5.44

33.21

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT KOVILANKULAM WITH 1x8 MVA POWER TRANSFORMER IN RAMNAD 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)				2.200	
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	Additional provision towards increase in foundation depth of control room & other structure foundation			LS	15.000	
4	Total				192.200	192.20
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	
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				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	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				190.932	
33	Estt & Sup. Charges 15%				28.640	
34	Subtotal				219.572	219.57
35	Plinth for breakers	5 Nos.	2.500	E	12.500	
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	10.909 kms.	8.00	km	87.272	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor	9.005 kms.	12.000	Loc	108.060	
	Strengthening of existing Raccoon conductor with	13.169 kms.			120.090	
41	Dog conductor on the same support with insertion of poles at required locations					

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS AT KOVILANKULAM WITH 1x8 MVA POWER TRANSFORMER IN RAMNAD EDC

Part I: Cost of new asset

SL.NO	DESCRIPTION	QTY	RATE	PER	Rs. In Lakhs	
					AMOUNT	TOTAL
42	33 kV DP Structures in 33 kV Source feeder	3 Loc	2.72	Loc	8.160	
43	Extension of 33 kV bay at Kadaladi 110 kV SS *	1 Loc			0.000	
44	Subtotal				434.97	434.97
45	Dismantling charges					1.047
46	Total Gross					847.79
47	Less credit					20.93
48	Total Nett					826.86

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

Part I (a) : Dismantling Charges

1 Dismantling Charges = **1.047 lakhs**

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	ACSR 7/4.09 mm conductor	20.93	35	25	13.455
2	Total				13.455

PART III-Devolution of old asset - Debit to stock

(PART IV-PART II)

7.475 lakhs

PART IV - Removal of old assets Charges

Sl.No	Description	Qty	Original cost in lakhs	Original erection charges	Original centages	Original Cost of Asset
1	ACSR 7/4.09 mm conductor in kms.	42.14	16.546	1.655	2.730	20.931
2	Total					20.931

* 50% rate as per present cost data has been adopted.

ABSTRACT

Part I : New Asset Charges

Rs in Lakhs

847.79

Part I (a) : Dismantling Charges

826.86

Part II : Accumulated Depreciation Charges

1.05

Part III :Devolution of old equipment to store

13.46

Part IV : Removal of old assets Charges

7.48

20.93