

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Thiruvannamalai Region – Establishment of 33/11 kV SS and Augmentation of power transformer capacity at the existing 33/11 kV SS – Proposed to be executed - Revised Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No:86

Dated: 06.10.2026

Sri Parabava Varudam

Puratasi - 19

Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated: 02.10.2026.

PROCEEDINGS:

1. The Tamil Nadu Power Distribution Corporation Ltd. hereby approves the revised proposal for the sanctioned 14 Nos. establishment of 33/11 kV SS and 2 Nos. Augmentation of power transformer capacity at the existing 33/11 kV SS in Thiruvannamalai EDC and Dharmapuri EDC of Thiruvannamalai Region at a total estimated cost of Rs.11354.61 lakhs Gross and Rs.11020.82 lakhs Nett. by superseding the approval already accorded for the said substations as detailed below :-

(i) Establishment of 33/11 kV SS:-

Sl No	Name of EDC	Name of the 33 /11 kV substation	Already approved vide BP.No and date	Already Sanctioned Amount in Rs. lakhs	Revised Sanctioned Amount in Rs. lakhs
1	TVMalai	Sengadu	38/03.03.2023	629.36	739.83
2	TVMalai	Periyakolapadi	251/14.12.2022	668.97	773.85
3	TVMalai	Thellanandal	255/17.12.2022	695.07	830.27
4	TVMalai	Kolakudi	14/03.03.2025	693.35	714.94
5	TVMalai	Kamalaputhur) (Kovoor)	65/31.05.2025	825.57	840.33
6	TVMalai	Kelur	37/28.03.2025	719.79	785.43
7	TVMalai	Kilveliyur	37/28.03.2025	606.98(G) 582.33(N)	656.27(G) 630.78(N)
8	TVMalai	Kozhipuliyur	37/28.03.2025	750.45	850.29

9	TVMalai	Pallavaram	37/28.03.2025	728.99(G) 709.42(N)	792.70(G) 772.62(N)
10	TVMalai	Thamarai Nagar	37/28.03.2025	655.99(G) 633.07(N)	716.92(G) 693.73(N)
11	Dharmapuri	Nagadasampatty (Indur)	14/21.01.2023	465.13	556.23
12	Dharmapuri	Noolahalli	19/01.02.2023	591.91	672.98
13	Dharmapuri	Kattampatty	37/28.03.2025	689.02	731.32
14	Dharmapuri	Kadamadai	24/12.12.2022	452.97	541.02

(ii) Augmentation of power transformer capacity at the existing Substation:-

Sl No	Name of EDC	Name of the 33 /11 kV substation	Already approved vide BP.No and date	Already Sanctioned Amount in Rs. lakhs	Revised Sanctioned Amount in Rs. lakhs
1	TVMalai	Kottaiyur (Enhancement)	56/16.03.2023	302.52(G) 197.16(N)	408.56(G) 282.48(N)
2	Dharmapuri	Paparapatty(Re-establishment)	257/20.12.2023	563.52(G) 467.67(N)	743.67(G) 604.72(N)

The detailed estimates and report are annexed to these proceedings.

- The expenditure is chargeable to TNPDC - Funds - Capital Expenditure – Thiruvannamalai EDC and Dharmapuri EDC – New SS - A/c code no. 14.555, ERP A/c code no 1020300 and Augmentation of power transformer capacity – A/c code no.14.655, ERP A/c code no 1020400.
- 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.
- 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

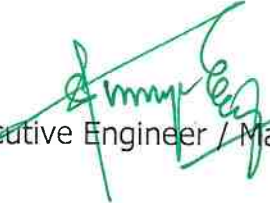
The Chief Engineer / Distribution / Thiruvannamalai Region.

(Per). MD TNPDCCL Proceedings No:86 ,dt:06.10.2026

Copy to:

The Director/Distribution/TNPDCCL/Chennai-2
The Director/Finance/ TNPDCCL / Chennai – 2
The Chief Engineer/ Material Management /Chennai -2
The Chief Engineer/ IT & R-APDRP /Chennai -2
The Superintending Engineer/ Thiruvannamalai EDC
The Superintending Engineer/ Dharmapuri EDC
The Superintending Engineer / RE & I(D) / Chennai -2
The Company Secretary/TNPDCCL/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 14 Nos. establishment of 33/11 kV SS & 2 Nos. Augmentation of power transformer capacity at the existing 33/11 kV SS in Thiruvannamalai EDC and Dharmapuri EDC of Thiruvannamalai Region at a total estimated cost of Rs.11354.61 lakhs Gross and Rs.11020.82 lakhs Nett. by superseding the approval already accorded for the said substations.

Need:

Administrative approval for 14 Nos. establishment of 33/11 kV SS & 2 Nos. Augmentation of power transformer capacity at the existing 33/11 kV SS in Thiruvannamalai EDC and Dharmapuri EDC of Thiruvannamalai Region were sanctioned during 2022 -2025, 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 cost of materials and labours have increased, the administratively approved cost is not adequate. Hence, it is requested to accord revised administrative approval based on the latest available cost data, so as to float fresh tenders."

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

SI 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	TVMalai	Sengadu	38/03.03.2023	629.36	739.83	17.55
2	TVMalai	Periyakolapadi	251/14.12.2022	668.97	773.85	15.68
3	TVMalai	Thellanandal	255/17.12.2022	695.07	830.27	19.45
4	TVMalai	Kolakudi	14/03.03.2025	693.35	714.94	3.11
5	TVMalai	Kamalaputhur) (Kovoor)	65/31.05.2025	825.57	840.33	1.79
6	TVMalai	Kelur	37/28.03.2025	719.79	785.43	9.12
7	TVMalai	Kilveliyur	37/28.03.2025	606.98(G) 582.33(N)	656.27(G) 630.78(N)	8.12
8	TVMalai	Kozhipuliyur	37/28.03.2025	750.45	850.29	13.30
9	TVMalai	Pallavaram	37/28.03.2025	728.99G) 709.42(N)	792.70(G) 772.62(N)	8.74
10	TVMalai	Thamarai Nagar	37/28.03.2025	655.99(G) 633.07(N)	716.92(G) 693.73(N)	9.29
11	TVMalai	Kottaiyur (Enhancement)	56/16.03.2023	302.52(G) 197.16(N)	408.56(G) 282.48(N)	35.05
12	Dharmapuri	Nagadasampatty (Indur)	14/21.01.2023	465.13	556.23	19.59
13	Dharmapuri	Noolahalli	19/01.02.2023	591.91	672.98	13.70
14	Dharmapuri	Kattampatty	37/28.03.2025	689.02	731.32	6.14
15	Dharmapuri	Kadamadai	249/12.12.2022	452.97	541.02	19.44
16	Dharmapuri	Paparapatty(Re-establishment)	257/20.12.2023	563.52(G) 467.67(N)	743.67(G) 604.72(N)	31.97
			Total	10039.59(G) & 9771.24(N)	11354.61(G) & 11020.82(N)	

As the cost variation of the schemes are either more than 10% (or) individual material cost 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

In lakhs

SL. NO	DESCRIPTION	Gross	Nett
	Thiruvannamalai Region		
	Thiruvannamalai EDC		
1	Establishment of Sengadu 33/11 kV SS with 1x8 MVA power transformer	739.83	739.83
2	Establishment of Periyakoalpadi 33/11 kV SS with 2x8 MVA power transformers	773.85	773.85
3	Establishment of Thellanandal 33/11 kV SS with 2x8 MVA power transformers	830.27	830.27
4	Establishment of Kolakudi 33/11 kV SS with 1x8 MVA power transformer	714.94	714.94
5	Establishment of Kamalaputhur (Kovoor) 33/11 kV SS with 2x8 MVA power transformers	840.33	840.33
6	Establishment of Kelur 33/11 kV SS with 2x8 MVA power transformers	785.43	785.43
7	Establishment of Kilveliyur 33/11 kV SS with 1x8 MVA power transformer	656.27	630.78
8	Establishment of Kozhipuliyur 33/11 kV SS with 2x8 MVA power transformers	850.29	850.29
9	Establishment of Pallavaram 33/11 kV SS with 2x8 MVA power transformers and dismantling of Abdullapuram 33 kV LT SS	792.7	772.62
10	Thamarainagar 33kV SS conversion of unmanned to regular SS in view of enhancement of power transformers capacity from 1x5 MVA to 2x8 MVA	716.92	693.73
11	Kottaiyur 33kV SS enhancement of power transformers capacity from 2x8 to 1x8+1x16 MVA	408.56	282.48
		8109.39	7914.55
	Dharmapuri EDC		
1	Establishment of Nagadasampatty (Indur) 33/11 kV SS with 1x8 MVA power transformer	556.23	556.23
2	Establishment of Noolahalli 33/11 kV SS with 1x8 MVA power transformers	672.98	672.98
3	Establishment of Kattampatty 33/11 kV SS with 1x8 MVA power transformer	731.32	731.32
4	Establishment of Kadamadai 33/11 kV SS with 1x8 MVA power transformer	541.02	541.02
5	Paparapatty 33kV SS re-establishment of 33/11kV SS	743.67	604.72
		3245.22	3106.27
	Total Gross & Nett	11354.61	11020.82

EXECUTIVE ENGINEER/MASTER PLAN II

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER AT SENGADU IN THIRUVANNAMALAI 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)				3.234		
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				178.234	178.23	
II	Electrical Works						
1	33 kV AB Switch	4 Nos	0.465	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	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	8.7070	set	8.707		
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145		
23	Sub Total				79.588		
24	Contingencies @ 1%				0.796		
25	Total for materials				80.384		
26	Labour and Transport charges @ 15%				12.058		
27	GST on labour & transport @ 18%				2.170		
28	Total for material and labour				94.612		
29	1x8 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	Sub Total				191.486		
33	Estt & Sup.Charges 15%				28.723		
34	Sub total				220.209	220.21	
35	Plinth for breakers	5 Nos.	2.5000	E	12.500		

SL.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	TOTAL
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 capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV line with Dog conductor	17 km.	12.000	Loc	204.000	
40	11 kV link line with 7/4.09 conductor	3.25 km.	8.000	Loc	26.000	
					341.39	341.39
41	Subtotal					739.83
42	Total Gross & Nett.					

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV POWER TRANSFORMER AT PERIYAKOLAPADI IN THIRUVANNAMALAI 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)				15.575	
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				198.575	198.58
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 (2 LV+ 4 fdr's)	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	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	0.980	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				86.660	
24	Contingencies @ 1%				0.867	
25	Total for materials				87.527	
26	Labour and Transport charges @ 15%				13.129	
27	GST on labour & transport @ 18%				2.363	
28	Total for material and labour				103.019	
29	2x8 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				296.767	
33	Estt & Sup.Charges 15%				44.515	
34	Sub total				341.282	341.28
35	Plinth for breakers	7 Nos.	2.5000	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 capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV line with Doq conductor	6 km.	12.000	Loc	72.000	
40	11 kV link line with 7/4.09 conductor	5.7 km.	8.000	Loc	45.600	
41	33 kV bay extension at Vinnavanur 110 kV SS*	1 No	0.000	No	0.000	
42	Subtotal				233.99	233.99
43	Total Gross & Nett.					773.85

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSOCO.

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV POWER TRANSFORMER AT THELLANANDAL IN THIRUVANNAMALAI 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)				30.500	
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	
	Fire protection wall				3.000	
3	Total				213.500	213.50
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	3 Nos	0.038	E	0.114	
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	S	1.533	
10	11 kV LAS stn. Type	6 Nos	0.018	E	0.108	
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	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	0.980	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				89.998	
24	Contingencies @ 1%				0.900	
25	Total for materials				90.898	
26	Labour and Transport charges @ 15%				13.635	
27	GST on labour & transport @ 18%				2.454	
28	Total for material and labour				106.987	
29	2x8 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				300.735	
33	Estt & Sup.Charges 15%				45.110	
34	Sub total				345.845	345.85
35	Plinth for breakers	8 Nos.	2.5000	E	20.000	
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 capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV line with Dog conductor	3 km.	12.000	Loc	36.000	
40	11 kV link line with 7/4.09 conductor	6.63 km.	8.000	Loc	53.040	
41	Reniforcement of 33 kV 7/3.35 mm conductor with Dog conductor	9 km.	7.000	Loc	63.000	
42	Subtotal				270.93	270.93
43	Total Gross & Nett.					830.27

DETAILED ESTIMATE FOR ESTABLISHMENT OF KOLAKUDI 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER AT THIRUVANNAMALAI 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)				35.438	
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				210.438	210.438
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+2 fdrs)	3 Nos	1.626	E	4.878	
7	11 kV CTS	9 Nos	0.250	E	2.250	
8	11 kV AB Switch	5 Nos	0.236	E	1.180	
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	6 Nos	0.008	E	0.048	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				76.014	
24	Contingencies @ 1%				0.760	
25	Total for materials				76.774	
26	Labour and Transport charges @ 15%				11.516	
27	GST on labour & transport @ 18%				2.073	
28	Total for material and labour				90.363	
29	1x8 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	Sub Total				187.237	
33	Estt & Sup.Charges 15%				28.086	
34	Sub total				215.323	215.32
35	Plinth for breakers	4 Nos.	2.5000	E	10.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	2 set	33.791	set	67.582	
38	11 kV capacitor bank 2.4 MVAR	1.00 Set	27.008	set	27.008	
39	Conversion of existing 33 kV conductor by Dog conductor	11.50 km.	7.000		80.500	
40	33 kV line with Dog conductor	5.50 km.	12.000	Loc	66.000	
41	Subtotal				289.180	289.180
42	Total Gross & Nett.					714.941

9

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV POWER TRANSFORMER AT KOVOOR (KAMALAPUTHUR) IN THIRUVANNAMALAI 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)				2.579	
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	
	Fire protection wall				3.000	
3	Total				185.579	185.579
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	3 Nos	0.038	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	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	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	0.980	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				82.126	
24	Contingencies @ 1%				0.821	
25	Total for materials				82.947	
26	Labour and Transport charges @ 15%				12.442	
27	GST on labour & transport @ 18%				2.240	
28	Total for material and labour				97.629	
29	2x8 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				291.377	
33	Estt & Sup.Charges 15%				43.707	
34	Sub total				335.083	335.083
35	Plinth for breakers	7 Nos.	2.5000	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 capacitor bank 2.4 MVAR	1.00 Set	27.008	set	27.008	
39	33 kV UG cable for railway crossing	0.10 km.		LS	10.000	
40	11 kV link line with 7/4.09 mm conductor	4.06 km.	8.000		32.480	
41	33 kV line with Dog conductor	13.40 km.	12.000	Loc	160.800	
42	Subtotal				319.669	319.669
43	Total Gross & Nett.					840.331

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS AT KELUR WITH 2x8 MVA POWER TRANSFORMERS IN TIRUVANNAMALAI 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)				7.563	
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	
	Total				190.563	190.563
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				10.000	
13	Control cable			LS	10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	set	4.737	
16	Fire fighting equipments				3.000	
17	P&T Phone				0.100	
18	Scientific instruments				5.000	
19	C&R panel				17.000	
20	DC panel	1 No	0.980	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	2x8 MVA 33/11 kV Pr.Tr. with OLTC	2 Nos	86.374		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				297.456	
33	Estt & Sup.Charges 15%				44.618	
34	Sub total				342.075	
35	Plinth for breakers	7 Nos.	2.5000	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	5.05 kms.	8.000	km	40.400	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dqg conductor	8 kms.	12.000	Loc	96.000	
41	Extension of 33 kV bay at Santhavasa	1 Loc	0.000	Loc	0.000	
42	Subtotal				252.79	
43	Total Gross & Nett.				252.79	252.79
						785.43

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSOCO.

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER AT KILVELLIYUR IN THIRUVANNAMALAI EDC

Part I : New Asset Chargeable to Capital

SL. NO	DESCRIPTION	QTY	RATE	PER	RS. in Lakhs	
					AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS					
1	Land cost	Actuals			6.000	
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	
	Total				181.000	181.000
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 (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	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	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				10.000	
13	Control cable				10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11. kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				82.230	
24	Contingencies @ 1%				0.822	
25	Total for materials				83.052	
26	Labour and Transport charges @ 15%				12.458	
27	GST on labour & transport @ 18%				2.242	
28	Total for material and labour				97.753	
29	1x8 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	Sub Total				194.627	
33	Estt & Sup.Charges 15%				29.194	
34	Sub total				223.821	223.82
35	Plinth for breakers	6 Nos.	2.5000	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	

SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
38	33 kV line with dog conductor	0.50 km	12.000	km	6.000	
39	Stringing of 33 kV Dog conductor from Mazhaiyur 110 kV SS to HTSC	7.44 km	6.780	km	50.443	
40	11 kV Link line with 7/4.09 ACSR	10.0 km	8.000	Km	79.840	
41	11 kV Capacitor bank/2.4 MVAR	1.0 set	27.008	set	27.008	
42	Add dismantling charges				1.274	
43	Sub Total				251.447	251.447
44	Total Gross					656.27
45	Less credit					25.49
46	Total Nett					630.78

Part I (a) : Dismantling Charges

1 Dismantling Charges

= **1.274** lakhs

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	DESCRIPTION	Original cost a	Full Life Period b	Useful Life Period c	Accum. depre. axc/bx.9
1	Dismantling of 33 kV 7/4.09 conductor	23.637	35	21	12.764
2	Dismantling of 33 kV 7/3.35 conductor	1.852	35	23	1.095
	Total	25.489			13.859

PART III-DEVOLUTION OF OLD ASSET-DEBIT TO STOCK

(PART IV-PART II)

11.630 lakhs

PART IV

Removal of old assets Charges

Sl.No	Description	Qty in Nos/KM.	Original cost in lakhs	Original erection charges	Original centages	Original cost of asset in lakhs
1	Dismantling of 33 kV 7/4.09 conductor*	6.77	18.685	1.869	3.083	23.637
2	Dismantling of 33 kV 7/3.35 conductor**	0.67	1.464	0.146	0.242	1.852
	Total		20.149	2.015	3.325	25.489

* 50% value of stringing of 33 kV 7/4.09 conductor from cost data 2025-26 is adopted

** 50% value of stringing of 33 kV 7/3.35 conductor from cost data 2025-26 is adopted

ABSTRACT

	Rs in Lakhs
Part I : New Asset Charges	656.27 Gross
	630.78 Nett
Part I (a) : Dismantling Charges	1.27
Part II : Accumulated Depreciation Charges	13.86
Part III : Devolution of old equipment to store	11.63
Part IV : Removal of old assets Charges	25.49

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV
POWER TRANSFORMER AT KOZHIPULIYUR IN THIRUVANNAMALAI 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	Actuals			25.000	
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	Fire protection wall				3.000	
	Total				208.000	208.000
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 (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	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	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				10.000	
13	Control cable				10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	0.980	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				84.230	
24	Contingencies @ 1%				0.842	
25	Total for materials				85.072	
26	Labour and Transport charges @ 15%				12.761	
27	GST on labour & transport @ 18%				2.297	
28	Total for material and labour				100.130	
29	2x8 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				293.878	
33	Estt & Sup.Charges 15%				44.082	
34	Sub total				337.960	337.96
35	Plinth for breakers	6 Nos.	2.5000	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	33 kV line with dog conductor	5.40 km	12	km	64.800	
39	33 kV Bay extension at Mazhaiyur 110 kV SS	1 No	0	No	0.000	
40	Renforcement of existing 7/2.59 conductor by 7/4.09 conductor	19.3 km	6.5	Km	125.645	
41	11 kV Capacitor bank/2.4 MVAR	1.0 set	27.008	set	27.008	
42	Sub Total				304.334	304.334
43	Total Gross & Nett					850.29

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSCO.

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV POWER TRANSFORMER AT PALLAVARAM AND DISMANTLING OF ABDULLAPURAM 33/11 KV LINE TAP SS WITH 1x3.15 MVA, 33/11 KV POWER TRANSFORMER IN TIRUVANNAMALAI 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	Actual			3.420	
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			LS	180.000	
3	Fire Protection wall				3.000	
	Total				186.420	186.420
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	0.038	E	0.114	
6	11 kV breaker (2 LVs+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				10.000	
13	Control cable				10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	0.980	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				87.126	
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	2x8 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				297.321	
33	Estt & Sup.Charges 15%				44.598	
34	Sub total				341.919	341.92
35	Plinth for breakers	7 Nos.	2.5000	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	
	33 kV line with dog conductor from Mangal 110 kV SS to 2.5 km and from Abdullapuram SS location to Pallavaram 33kV SS(3.1 km)	5.6 km	12.000	km	67.200	
38						
39	Stringing of 33 kV Dog conductor	3.5 km	6.790	km	23.765	

40	11 kV Link line with 7/4.09 ACSR	7.0 km	8.000	Km	56.000	
41	33 kV bay extension at Mangal 110 kV SS*	1.0 No	0.000	km	0.000	
42	11 kV Capacitor bank/2.4 MVAR	1.0 set	27.008	set	27.008	
43	Add dismantling charges				1.004	
44	Sub Total				264.358	264.358
45	Total Gross					792.70
46	Less credit					20.08
47	Total Nett					772.62

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSCO.

Part I (a) : Dismantling Charges

1 Dismantling Charges

= 1.004 lakhs

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	DESCRIPTION	Original cost a	Full Life Period b	Useful Life Period c	Accum. depre. axc/bx.9
1	33/11 KV,3.15 MVA Power Tr	3.593	25	31	3.233
2	33 kV AB switch	0.295	25	31	0.265
3	11 kV AB switch	0.149	25	31	0.134
4	33 kV HG fuse	0.017	25	31	0.015
5	11 kV HG fuse	0.020	25	31	0.018
6	33 kV line	15.031	35	31	11.982
7	11 kV CT	0.474	25	31	0.427
8	Other materials	0.500	25	31	0.450
	Total	20.080			16.526

PART III-DEVOLUTION OF OLD ASSET-DEBIT TO STOCK
(PART IV-PART II)

3.554 lakhs

PART IV

Removal of old assets Charges

Sl.No	Description	Qty in Nos/KM.	Original cost in lakhs	Original erection charges	Original centages	Original cost of asset in lakhs
1	33/11 KV,3.15 MVA Power Tr	1	2.840	0.284	0.469	3.593
2	33 kV AB switch	1	0.233	0.023	0.038	0.295
3	11 kV AB switch	1	0.118	0.012	0.019	0.149
4	33 kV HG fuse	1	0.013	0.001	0.002	0.017
5	11 kV HG fuse	1	0.016	0.002	0.003	0.020
6	33 kV line	3.5	11.883	1.188	1.961	15.031
7	11 kV CT	3	0.375	0.038	0.062	0.474
8	Other materials					0.500
	Total		15.478	1.548	2.554	20.080

As the value of 3.15 MVA 33/11 kV Pr. Tr. is not available in present cost data, the value of 3.15 MVA 33/11 kV Pr. Tr. from cost data 1984-85 has been adopted.

* 50% rate for item No 2 to 7 has been adopted from cost data 25-26.

ABSTRACT	
Part I : New Asset Charges	Rs in Lakhs
	792.70 Gross
Part I (a) : Dismantling Charges	772.62 Nett
Part II : Accumulated Depreciation Charges	1.00
Part III : Devolution of old equipment to store	16.53
Part IV : Removal of old assets Charges	3.55
	20.08

**DETAILED ESTIMATE FOR ENHANCEMENT OF EXISTING 33/11 KV POWER TRANSFORMER CAPACITY
FROM 1x5 MVA TO 2x8 MVA AND CONVERSION OF UNMANNED INTO REGULAR SS AT
THAMARAINAGAR 33/11KV SS IN THIRUVANNAMALAI EDC**

RS. in Lakhs

S.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	Total
I	CIVIL WORKS					
1	Land cost		Existing land		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	
	Fire protection wall				3.000	
	Total				183.000	183.000
II	Electrical works					
1	33 kV AB switch	4 Nos	0.466	E	1.864	
2	33 KV breaker	1 No	2.93	E	2.930	
3	33 KV CT	3 Nos	0.308	E	0.924	
4	33 KV PT	3 Nos	0.336	E	1.008	
5	33 KV Lighthening Arresters	6 Nos	0.038	E	0.228	
6	11 kV VCB (LV 2+2 feeders)	4 Nos	1.626	E	6.504	
7	11 kV CT	12 Nos	0.250	E	3.000	
8	11 KV AB switch	7 Nos	0.236	E	1.652	
9	11 kV LAS (Station type)	6 Nos	0.018	E	0.108	
10	11 KV LAS (Distribution type)	6 Nos	0.008	E	0.048	
11	Earthing painting and Yard lighting				10.000	
12	Control cable				10.000	
13	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
14	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	set	4.737	
15	Fire fighting equipments				3.000	
16	P&T Phone				0.100	
17	Scientific instruments				5.000	
18	C&R panel			LS	17.000	
19	DC panel	1 No	0.980	E	0.980	
20	AC panel	1 No	1.028	E	1.028	
21	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
22	Sub Total				79.963	
23	Contingencies @ 1%				0.800	
24	Total for materials				80.763	
25	Labour and Transport charges @ 15%				12.114	
26	GST on labour & transport @ 18%				2.181	
27	Total for material and labour				95.058	
28	2x8 MVA 33/11 kV Pr.Tr. with OLTC	2 Nos	88.374		176.748	
29	Labour and transport including GST	2 Loc	8.000	Loc	16.000	
30	Earthing	2 Loc	0.500	Loc	1.000	
31	Sub Total				288.806	
32	Estt & Sup.Charges 15%				43.321	
33	Sub total				332.126	332.13
34	Plinth for breakers	5 Nos.	2.5000	E	12.500	
35	33 kV Structure	1 set	38.090	set	38.090	
36	11 kV Structure	1 set	33.791	set	33.791	
37	11 KV Capacitor bank	1 set	27.008		27.008	
	Erection of 33 KV lines with ACSR Dog conductor from Samuthiram 110 KV SS to Thiruvannamalai 33/11 KV SS	7.20 kms	12.000		86.400	
38						

S.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	Total
39	33 KV bay extension at Samuthiram 110	1.00 No	0.000		0.000	
40	kV SS *					
41	Add dismantling charges				4.000	
42	sub total				201.79	201.79
43	Gross					716.92
44	less credit					23.19
	Nett					693.73

* 33 KV Bay extension at source 110 kV SS is under the scope of TANTRANSO.

Part I (a) : Dismantling Charges

Dismantling Charges **4.000** lakhs

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	Description	Original cost of asset	Full Life Period	Useful Life Period	Accum. depre.
1	5 MVA,33/11 KV Power transformer ***	10.3	25	19	7.05
2	33 KV breaker *	1.9	25	19	1.27
3	33 KV CT *	0.6	25	19	0.40
4	33 KV PT *	0.6	25	19	0.44
5	33 KV ABS *	0.9	25	19	0.60
6	33 KV and 11 KV structures	8.7	25	19	5.92
7	30V battery set with charger **	0.3	5	5	-0.25
8	Total	23.2			15.92

Part III : Devolution of old equipment to store

Part III: Part IV - Part II =

23.19 _ 15.92 = **7.268** lakhs

Part IV : Removal of old assets

SL.No	Description	QTY	Original cost	Original erection charges 10%	Original centages 15%	Original cost of asset in Lakhs
1	5 MVA,33/11 KV Power transformer ***	1	8.14	0.81	1.34	10.30
2	33 KV breaker *	1	1.47	0.15	0.24	1.85
3	33 KV CT *	3	0.46	0.05	0.08	0.58
4	33 KV PT *	3	0.50	0.05	0.08	0.64
5	33 KV ABS *	3	0.70	0.07	0.12	0.88
6	33 KV and 11 KV structures	1	6.84	0.68	1.13	8.65
7	30V battery set with charger **	1	0.22	0.02	0.04	0.28
			18.33	1.83	3.02	23.19

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

*** 50 % Rate of cost data 2016-17

* 50% rate of cost data 2025-26

ABSTRACT

Part I : New Asset Chargeable to Capital	Rs in Lakhs
Part I (a) : Dismantling Charges	716.92 Gross
Part II : Accumulated Depreciation Charges	693.73 Nett
Part III : Devolution of old equipment to store	4.000
Part IV : Removal of old assets Charges	15.92
	7.27
	23.19

**DETAILED ESTIMATE FOR ENHANCEMENT OF EXISTING POWER TRANSFORMER CAPACITY FROM
2x8 MVA to 1x16+1x8 MVA AT KOTTAIYUR 33/11 KV SS IN TIRUVANNAMALAI EDC**

RS. in Lakhs					
S.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT
1	33 KV & 11 KV, 1x630 Sq. mm XLPE cable, 33 KV & 11 KV outdoor type cable termination kit, 33 KV & 11 KV indoor type cable termination kit, Cable accessories & V trough etc.			LS	25.000
2	Subtotal				25.000
3	Contingencies 1%				0.250
4	Cost of Material				25.250
5	Labour & Transport @ 15%				3.788
6	ESI on Labour portion @ 3.25%				0.082
7	EPF on Labour portion @ 13%				0.328
8	GST on L&T, ESI & EPF @ 18%				0.756
9	Total for works				30.203
10	16 MVA, 33/11 KV Power Transformer with OLTC	1 No.	169.900	E	169.900
11	Plinth alteration, Labour and transport inclusive of GST, ESI & EPF	1 Loc	10.000	Loc	10.000
12	Earthing	1 Loc	0.5	Loc	0.500
13	Estt&Sup. Charges 15%				31.591
14	Sub Total				242.194
15	33 KV Structure and 11 KV Structure modifications and other civil works	1 set	10	set	10.000
16	Erection of Dog conductor (AL 59)	12.505 km	12.000	km	150.060
17	Subtotal				402.254
18	Add dismantling charges				6.30
19	Total Gross				408.56
20	Less Credit				126.08
21	Total Nett				282.48

Part I (a): Dismantling charges

6.30 lakhs

Part II: Accumulated Depreciation chargeable

Sl. No.	Description	Qty	Original cost in lakhs	Full life period	useful life period	Acc.Dep = 0.9*(col.4*col.6/col.5)
1	8 MVA, 33/11 KV power transformer	1	55.90	25	22	44.27
2	Existing 33 KV line with ACSR 7/4.09 mm conductor	12.505	70.18	35	24	43.31
3	Total		126.08			44.27

Part III Devolution of old equipment to store chargeable

Part III = Part IV - Part II

81.81 lakhs

Part IV Removal of old assets chargeable

Sl. No.	Description	Qty	Original cost in lakhs *	Original erection charges	Original centages	Original cost in lakhs
1	8 MVA, 33/11 kV power transformer	1	44.19	4.4187	7.290855	55.90
2	Existing 33 kV line with ACSR 7/4.09 mm conductor	12.505	55.478	5.548	9.154	70.18
3	Total					126.08

* - 50% of the present cost data rate has been adopted.

ABSTRACT

Part I: New Asset	Gross	408.56
	Nett	282.48
Part I (a): Dismantling charges		6.30
Part II: Accumulated Depreciation		44.27
Part III: Devolution of old equipment to store		81.81
Part IV: Removal of old assets		126.08

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV
POWER TRANSFORMER AT NAGADASAMPATTY IN DHARMAPURI 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				6.460	
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, Plinth for Breakers, Fire Protection wall, provision for sand drums & sand, supply of furnitures, T&P etc. (inclusive of contingencies, labour, administrative expenses, all statutory levies etc..)				175.000	
3	Sub total				181.460	181.46
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 (1 LV+ 2 fdrs)	3 Nos	1.626	E	4.878	
7	11 kV CTS	9 Nos	0.250	E	2.250	
8	11 kV AB Switch	5 Nos	0.236	E	1.180	
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	6 Nos	0.008	E	0.048	
12	Earthing painting and Yard lighting				10.000	
13	Control cable				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			LS	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				76.014	
24	Contingencies @ 1%				0.760	
25	Total for materials				76.774	
26	Labour and Transport charges @ 15%				11.516	
27	GST on labour & transport @ 18%				2.073	
28	Total for material and labour				90.363	

SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
29	1x8 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				187.237	
33	Estt & Sup. Charges 15%				28.086	
34	Subtotal				215.323	215.32
35	Plinth of breakers	4 Nos	2.500		10.000	
36	33 kV Structure	1 Set	38.09	set	38.090	
37	11 KV Structure	1 Set	33.791	set	33.791	
38	Erection of 33 kV line with Dog conductor	1.2 kms	12.00	km	14.400	
39	Erection of 11 kV Link lines with 7/4.09 ACSR	4.5 kms	8.00	km	36.160	
40	11 KV, 2.4 MVAR capacitor bank	1.0 set	27.008	E	27.008	
41	Sub Total				159.449	159.45
42	Total Gross & Nett					556.23

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV
POWER TRANSFORMER AT NOOLAHALLI IN DHARMAPURI 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)				15.000	
	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		
2					175.000	
3	Total				190.000	190.00
II	Electrical Works					
1	33 kV AB Switch	3 Nos	0.492	E	1.476	
2	33 kV SF6/VCB Breaker	1 No	2.375	E	2.375	
3	33 kV CTs	3 Nos	0.251	E	0.753	
4	33 kV PTs	3 Nos	0.281	E	0.843	
5	33 kV LAS stn. Type	3 Nos	0.033	E	0.099	
6	11 kV Breaker (1 LV+ 3 fdrs)	4 Nos	1.372	E	5.488	
7	11 kV CTS	12 Nos	0.192	E	2.304	
8	11 kV AB Switch	7 Nos	0.348	E	2.436	
9	11 kV Bus PT	3 Nos	0.237	S	0.711	
10	11 kV LAS stn. Type	3 Nos	0.0165	E	0.050	
11	11 kV LAS distn. Type	9 Nos	0.0040	E	0.036	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				76.268	
24	Contingencies @ 1%				0.763	
25	Total for materials				77.030	
26	Labour and Transport charges @ 15%				11.555	
27	GST on labour & transport @ 18%				2.080	
28	Total for material and labour				90.665	
29	1x8 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	Sub Total				187.539	
33	Estt & Sup.Charges 15%				28.131	
34	Sub total				215.669	215.67
35	Plinth for breakers	5 Nos.	2.5000	E	12.500	
36	33 kV Structure	1 set	38.090	set	38.090	

SL.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	TOTAL
37	11 kV Structure	1 set	33.791	set	33.791	
38	Laying of 11 kV 3x400 sqmm UG cable	0.24 kms.	68.67	km	16.481	
39	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
40	33 kV line with Dog conductor	11.62 kms.	12.000	Loc	139.440	
41	33 kV bay extension at Dharmapuri 110 kV SS*	1 No	0.000	No	0.000	
42	Subtotal				267.31	267.31
43	Total Gross & Nett.					672.98

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSCO.

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS WITH 1x8 MVA, 33/11 KV POWER TRANSFORMER AT KATTAMPATTY IN DHARMAPURI EDC

Part I : New Asset Chargeable to Capital

SL. NO	DESCRIPTION	QTY	RATE	PER	RS. in Lakhs	
					AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS					
1	Land cost				10.000	
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 Total			LS	175.000	
					185.000	185.000
II	Electrical Works					
1	33 kV AB Switch	2 Nos	0.466	E	0.932	
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 (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	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				10.000	
13	Control cable				10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				78.656	
24	Contingencies @ 1%				0.787	
25	Total for materials				79.443	
26	Labour and Transport charges @ 15%				11.916	
27	GST on labour & transport @ 18%				2.145	
28	Total for material and labour				93.504	
29	1x8 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	Sub Total				190.378	
33	Estt & Sup.Charges 15%				28.557	
34	Sub total				218.935	218.93
35	Plinth for breakers	5 Nos.	2.5000	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	33 kV line with dog conductor	16.0 km	12.000	km	192.000	
39	33 kV bay extension at Vellichandai 110 kV SS*	1 No	0.000	No	0.000	
40	11 kV link line	3 km	8.000	km	24.000	
41	11 kV Capacitor bank/2.4 MVAR	1.0 set	27.008	set	27.008	
42	Sub Total				327.389	327.389
43	Total Gross					731.32

* 33 kV Bay extension at source 110 kV SS is under the scope of TANTRANSO.

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER AT KADAMADAI IN DHARMAPURI 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) 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	1.933	
2					175.000	
3	Total				176.933	176.93
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+ 2 fdrs)	3 Nos	1.626	E	4.878	
7	11 kV CTS	9 Nos	0.250	E	2.250	
8	11 kV AB Switch	5 Nos	0.236	E	1.180	
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	6 Nos	0.008	E	0.048	
12	Earthing painting and Yard lighting			LS	10.000	
13	Control cable			LS	10.000	
14	110 V Battery with 2 charger	1 set	8.7070	set	8.707	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.7370	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	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
23	Sub Total				76.014	
24	Contingencies @ 1%				0.760	
25	Total for materials				76.774	
26	Labour and Transport charges @ 15%				11.516	
27	GST on labour & transport @ 18%				2.073	
28	Total for material and labour				90.363	
29	1x8 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	Sub Total				187.237	
33	Estt & Sup.Charges 15%				28.086	
34	Sub total				215.323	215.32
35	Plinth for breakers	4 Nos.	2.5000	E	10.000	
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	4.4 kms.	8	km	35.200	
39	11 kV DP arrangement	3 Nos	0.76	No	2.280	
40	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
41	33 kV link line with Doq conductor	0.2 kms.	12.000	Loc	2.400	
42	Sub total				148.77	148.77
43	Total Gross & Nett.					541.02

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 + 1x16 MVA, 33/11 kV
POWER TRANSFORMER IN THE PREMISES OF PAPARAPATTY 33 KV SS AND DISMANTLING OF
EXISTING SUBSTATION WITH 2x8 MVA POWER TRANSFORMER IN DHARMAPURI 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 (actuals)		Board land		0.000	
	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		
2					180.000	
3	Total				180.000	180.00
II	Electrical Works					
1	33 kV AB Switch	2 Nos	0.466	E	0.932	
2	11 kV Breaker (2 LV+ 5 fdrs)	7 Nos	1.626	E	11.382	
3	11 kV CTS	21 Nos	0.250	E	5.250	
4	11 kV AB Switch	13 Nos	0.236	E	3.068	
5	11 kV Bus PT	3 Nos	0.511	S	1.533	
6	11 kV LAS stn. Type	6 Nos	0.018	E	0.108	
7	11 kV LAS distn. Type	15 Nos	0.008	E	0.120	
8	Earthing painting and Yard lighting			LS	10.000	
9	Control cable			LS	10.000	
10	Plinth for breakers	7 Nos.	2.500	E	17.500	
11	110 V Battery with 2 charger	1 set	8.707	set	8.707	
12	100 kVA, 11 kV/433 V Stn. Tr.	1 No	4.737	set	4.737	
13	Fire fighting equipments				3.000	
14	P&T Phone				0.100	
15	Scientific instruments				5.000	
16	C&R panel			LS	15.000	
17	DC panel	1 No	0.980	E	0.980	
18	AC panel	1 No	1.028	E	1.028	
19	Sub Total				98.445	
20	Contingencies @ 1% .				0.984	
21	Total for materials				99.429	
22	Labour and Transport charges @ 15%				14.914	
23	GST on labour & transport @ 18%				2.685	
24	Sub total				117.028	
25	Commissioning of SS equipments				2.714	
26	Total for material and labour				119.742	

27	1x8 MVA 33/11 kV Pr.Tr. with OLTC	1 No			88.374	
28	16 MVA, 33/11 KV Power Transformer with OLTC	1 No.	169.900	E	169.900	
29	Plinth alteration, Labour and transport inclusive of GST	1 Loc	10.000	Loc	10.000	
30	Estt & Sup. Charges 15%				40.241	
31	33 kV Structure	1 set	38.090	set	38.090	
32	11 kV Structure	2 sets	33.791	set	67.582	
33	11 kV Capacitor bank/2.4 MVAR	1.0 set	22.795	set	22.795	
34	Sub Total				556.725	
35	Add dismantling charges				6.947	
36	Sub Total				563.672	
37	Total Gross					563.672
38	Less credit					743.67
39	Total Nett					138.95
						604.72

Part I (a) : Dismantling Charges Charges

1 Dismantling Charges

= **6.947** lakhs

PART II ACCUMULATED DEPRECIATION CHARGES

SL. No.	DESCRIPTION	Original cost a	Full Life Period b	Useful Life Period c	Accum. depre. axc/bx.9
1	8 MVA,33/11 kV Power Transformer	111.793	25	5	20.123
2	33 kV Breaker VCB (for GC)	1.853	25	20	1.334
3	33 kV CTs	0.584	25	20	0.421
4	33 kV AB switch	1.179	25	30	1.061
5	33 kV PT	0.638	25	15	0.344
6	33 kV LAS station type	0.072	25	30	0.065
8	11 kV breaker VCB	5.142	25	15	2.777
9	11 kV CTS	2.550	25	15	1.377
10	11 kV AB Switch	1.941	25	30	1.746
11	11 kV Bus PT	0.638	25	15	0.344
12	11 kV LAS stn. Type	0.068	25	30	0.061
13	11 kV LAS distn. Type	0.076	25	30	0.068
14	11 kV C & R panels	5.693	25	30	5.123
15	AC panel	0.650	25	10	0.234
16	DC panel	0.620	25	15	0.335
17	100 kVA, 11 kV/433 V stn tr.	2.997	25	30	2.697
18	Line , line material, control cable, structure materials etc.,	2.000			2.000
19	30 V battery system with charger	0.455	5	8	0.410
20	Total	138.949			38.112

PART III-DEVOLUTION OF OLD ASSET-DEBIT TO STOCK

(PART IV-PART II)

100.837 lakhs

PART IV**Removal of old assets Charges**

Sl.No	Description	Qty in Nos/KM.	50% of cost/E*	Original cost in lakhs	Original erection charges	Original centages	Original cost of asset in lakhs
1	8 MVA,33/11 kV Power Transformer	2	44.187	88.374	8.837	14.582	111.793
2	33 kV Breaker VCB (for GC)	1	1.465	1.465	0.147	0.242	1.853
3	33 kV CTs	3	0.154	0.462	0.046	0.076	0.584
4	33 kV AB switch	4	0.233	0.932	0.093	0.154	1.179
5	33 kV PT	3	0.168	0.504	0.050	0.083	0.638
6	33 kV LAS station type	3	0.019	0.057	0.006	0.009	0.072
7	11 kV breaker VCB	5	0.813	4.065	0.407	0.671	5.142
8	11 kV CTS	21	0.096	2.016	0.202	0.333	2.550
9	11 kV AB Switch	13	0.118	1.534	0.153	0.253	1.941
10	11 kV Bus PT	3	0.168	0.504	0.050	0.083	0.638
11	11 kV LAS stn. Type	6	0.009	0.054	0.005	0.009	0.068
12	11 kV LAS distn. Type	15	0.004	0.060	0.006	0.010	0.076
13	11 kV C & R panels	3	1.500	4.500	0.450	0.743	5.693
14	AC panel	1	0.514	0.514	0.051	0.085	0.650
15	DC panel	1	0.490	0.490	0.049	0.081	0.620
16	100 kVA, 11 kV/433 V stn tr.	1	2.369	2.369	0.237	0.391	2.997
17	Line , line material, control cable , structure materials etc., 30 V battery system with charger (rate as per cost data 2010-11)	1	2.000	0.360	0.036	0.059	2.000
18							
19	Total			108.260	10.826	17.863	138.949

* 50% rate for item No.1 to 17 has been adopted from present cost data.

ABSTRACT

Part I : New Asset Charges

Rs in Lakhs
743.67 Gross
604.72 Nett

Part I (a) : Dismantling Charges

6.95

Part II : Accumulated Depreciation Charges

38.11

Part III : Devolution of old equipment to store

100.84

Part IV : Removal of old assets Charges

138.95