

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

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

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No:73

Dated: 02.09.2026
Sri Parabhava Varudam
Aavani : 16
Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated: 28.08.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the revised proposal for the sanctioned 6 Nos. establishment of 33/11 kV SS in Cuddalore EDC & Villupuram EDC of Villupuram Region at a total estimated cost of Rs.4351.18 Lakhs Gross & Rs. 4285.40 Lakhs Nett. by superseding the approval already accorded for the said substations as detailed below: -

Sl No	Name of EDC	Name of the 33 /11 kV substation	Already approved vide BP.No and date
1	Cuddalore	V.Kumaramangalam	19/28.11.2024
2	Cuddalore	Avatti	158/06.07.2023
3	Cuddalore	Sozhatharam	36/28.03.2025
4	Cuddalore	Shandan	90/05.04.2023
5	Cuddalore	Esanur	269/30.12.2022
6	Villupuram	Ananthapuram	267/30.12.2022

The detailed estimates and report are annexed to these proceedings.

2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure – Villupuram Region – 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.

(Per.) MD TNPDC Proceedings No: 73 dt. 02.09.2026

To

The Chief Engineer/ Distribution / Villupuram Region.

Copy to:

The Director/Distribution/TNPDC/Chennai-2

The Director/Finance/ TNPDC / Chennai - 2

The Chief Engineer/ Material Management /Chennai -2

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

The Superintending Engineer/ Villupuram EDC

The Superintending Engineer/ Cuddalore EDC

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

The Company Secretary/TNPDC/Chennai -2

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

B.P. Section (Administrative Branch)

Stock to file

//FORWARDED BY ORDER//



02.09.2026

Executive Engineer/Master Plan I

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages revised proposal for the sanctioned 6 Nos. establishment of 33/11 kV SS in Villupuram Region at a total estimated cost of Rs.4351.18 Lakhs Gross & Rs.4285.40 Lakhs Nett. by superseding the approval already accorded for the said substations.

Need:

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

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

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

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

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

Accordingly, the estimate for the above such schemes have been revised for Villupuram Region and the details of original sanction and the revised estimated cost in respect of 6 nos. new 33/11 kV SS are as below:

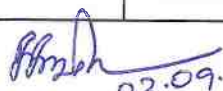
Sl No	Name of EDC	Name of the 33/11 kV substation	Sanctioned vide BP.No. and date	Sanctioned Amount in Rs. lakhs	Revised estimate cost in Rs. Lakhs	% increase
1	Cuddalore	V.Kumaramangalam	19/28.11.2024	701.75	711.12	1.34
2	Cuddalore	Avatti	158/06.07.2023	660.87(G) 597.60(N)	800.73 (G) 734.95 (N)	21.16
3	Cuddalore	Sozhatharam	36/28.03.2025	602.12	633.04	5.14
4	Cuddalore	Shandan	90/05.04.2023	617.07	727.34	17.87
5	Cuddalore	Esanur	269/30.12.2022	669.41	801.91	19.79
6	Villupuram	Ananthapuram	267/30.12.2022	596.75	677.04	13.46
			Total	3847.97 (G) 3784.70 (N)	4351.18(G) 4285.40 (N)	

As the cost variation of the schemes are more than 10% of the administratively approved cost or cost towards individual material is more the 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.


02.09.2026
Executive Engineer/Master Plan I

ABSTRACT			
SL. NO	DESCRIPTION	REVISED COST IN LAKHS	
		GROSS	NETT
I	Cuddalore EDC		
1	Establishment of 33/11 kV SS with 2x8 MVA power transformers at V.Kumaramangalam in Cuddalore EDC	711.12	711.12
2	Establishment of 33/11 kV SS with 1x8 MVA power transformer at Avatti in Cuddalore EDC	800.73	734.95
3	Establishment of 33/11 kV SS with 1x8 MVA power transformer at Sozhatram in Cuddalore EDC	633.04	633.04
4	Establishment of 33/11 kV SS with 1x8 MVA power transformer at Shantan in Cuddalore EDC	727.34	727.34
5	Establishment of 33/11 kV SS with 2x8 MVA power transformers at Esanur in Cuddalore EDC	801.91	801.91
	Villupuram EDC		
6	Establishment of 33/11 kV SS with 1x8 MVA power transformer at Ananthapuram in Villupuram EDC	677.04	677.04
	Total	4351.18	4285.40


 02.09.2026
EXECUTIVE ENGINEER/MASTER PLAN I

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 KV SS WITH 2x8 MVA,33/11 KV POWER
TRANSFORMER AT V.KUMARAMANGALAM IN CUDDALORE 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	180.000	
3	Construction of Fire protection wall				3.000	
4	Total				218.438	218.438
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	6 Nos	0.038	E	0.228	
6	11 kV Breaker (2 LV+ 3 fdrs)	5 Nos	1.626	E	8.130	
7	11 kV CTS	15 Nos	0.250	E	3.750	
8	11 kV AB Switch	9 Nos	0.236	E	2.124	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	6 Nos	0.0180	E	0.108	
11	11 kV LAS distn. Type	9 Nos	0.0080	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	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	C&R panel			LS	17.000	
19	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
20	Fire fighting equipments				3.000	
21	P&T Phone				0.100	
22	Scientific instruments				5.000	
23	Sub Total				83.902	
24	Contingencies @ 1%				0.839	
25	Total for materials				84.741	
26	Labour and Transport charges @ 15%				12.711	
27	GST on labour & transport @ 18%				2.288	
28	Total for material and labour				99.740	
29	8 MVA 33/11 kV Pr.Tr. with OLTC	2 Nos.	88.374		176.748	
30	Labour and Transport including GST	2 Nos.	8.000		16.000	
31	Earthing	2 Nos.	0.500		1.000	
32	Sub total				293.488	
33	Estt & Sup. Charges 15%				44.023	
34	Sub Total				337.511	337.51
35	Plinth for breakers	6 Nos.	2.5	E	15.000	
36	33 kV Structure	1 set	38.090	set	38.090	
37	11 kV Structure	1 sets	33.791	set	33.791	
38	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV link line with Dog conductor	3.44 kms.	12.000	km	41.280	
40	Subtotal				155.17	155.17
41	Total Gross & Nett.					711.12

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

Part I : New Asset Chargeable to Capital					RS. in Lakhs	
SL. NO	DESCRIPTION	QTY	RATE	PER	AMOUNT in Lakhs	TOTAL
I	CIVIL WORKS	Actuals			1.640	
1	Land cost			LS	175.000	
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.)				176.640	176.640
3	Total					
II	Electrical Works	3 Nos	0.466	E	1.398	
1	33 kV AB Switch	1 No	2.930	E	2.930	
2	33 kV SF6 Breaker	3 Nos	0.308	E	0.924	
3	33 kV CTs	3 Nos	0.336	E	1.008	
4	33 kV PT	3 Nos	0.038	E	0.114	
5	33 kV LAS stn. Type	4 Nos	1.626	E	6.504	
6	11 kV breaker (1 LV+3 fdrs)	12 Nos	0.250	E	3.000	
7	11 kV CTS	8 Nos	0.236	E	1.888	
8	11 kV AB Switch	3 Nos	0.511	E	1.533	
9	11 kV Bus PT	3 Nos	0.0180	E	0.054	
10	11 kV LAS stn. Type	9 Nos	0.0080	E	0.072	
11	11 kV LAS distn. Type				10.000	
12	Earthing painting and Yard lighting				10.000	
13	Control cable	1 set	8.7070	set	8.707	
14	110 V Battery with 2 charger	1 No	4.7370	set	4.737	
15	100 kVA, 11 kV/433 V Stn. Tr.	1 No	0.980	E	0.980	
16	DC panel	1 No	1.028	E	1.028	
17	AC panel	1 No	1.145	E	1.145	
18	110 V DC Annunciator Panel			LS	15.000	
19	C&R panel				3.000	
20	Fire fighting equipments				0.100	
21	P&T Phone				5.000	
22	Scientific instruments				79.122	
23	Sub Total				0.791	
24	Contingencies @ 1%				79.913	
25	Total for materials				11.987	
26	Labour and Transport charges @ 15%				2.158	
27	GST on labour & transport @ 18%				94.058	
28	Total for material and labour				88.374	
29	8 MVA 33/11 kV Pr.Tr. with OLTC	1 No	88.374	E	8.000	
30	Labour and Transport including GST	1 loc	8.000	E	0.500	
31	Earthing	1 loc	0.500	E	190.932	
32	Sub total				28.640	
33	Estt & Sup. Charges 15%				219.572	219.57
34	Sub Total					
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	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV line with dog conductor	9.4 kms.	12.000	km	112.800	
40	11 kV Link line with 7/4.09 ACSR	1.6 kms.	8.000	km	12.640	
41	33 kV bay extension at Sethiyathope 110 kV SS *				0.000	
42	Subtotal				236.83	236.83
43	Total Gross & Nett.					633.04

* - 33 kV bay extension at Sethiyathope 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 AVATTI IN CUDDALORE 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)				3.370	
	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	
2						
3	Total				178.370	178.37
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	7 Nos	0.236	E	1.652	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	3 Nos	0.0180	E	0.054	
11	11 kV LAS distn. Type	9 Nos	0.0080	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	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	C&R panel			LS	15.000	
19	Fire fighting equipments				3.000	
20	P&T Phone				0.100	
21	Scientific instruments				5.000	
22	Sub Total				77.741	
23	Contingencies @ 1%				0.777	
24	Total for materials				78.518	
25	Labour and Transport charges @ 15%				11.778	
26	GST on labour & transport @ 18%				2.120	
27	Total for material and labour				92.416	
28	8 MVA 33/11 kV Pr.Tr. with OLTC	1 No	88.374	E	88.374	
29	Labour and Transport including GST	1.00 loc	8.000	E	8.000	
30	Earthing	1.00 loc	0.500	E	0.500	
31	Sub total				189.290	
32	Estt & Sup. Charges 15%				28.394	
33	Sub Total				217.684	217.68
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 sets	33.791	set	33.791	
37	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
38	33 kV link line with Dog conductor	14.2 kms.	12.000	km	170.400	
39	11 kV link line with 7/4.09 mm conductor	9.37 kms.	8.000	km	74.960	

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

40	Reinforcement of existing 7/2.59 conductor by 7/4.09 conductor	3.7 km	12	Km	44.640	
41	Add dismantling charges				3.289	
42	Sub Total				404.678	404.678
43	Total Gross					800.73
44	Less credit					65.78
45	Total Nett					734.95

Part I (a) : Dismantling Charges

1 Dismantling Charges = **3.289 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 feeder with 7/3.35 ACSR conductor	65.780	35	32	54.128
	Total	65.780			54.128

PART III-DEVOLUTION OF OLD ASSET-DEBIT TO STOCK

(PART IV-PART II)

11.652 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 feeder with 7/3.35 ACSR conductor*	13	52.000	5.200	8.580	65.780
	Total		52.000	5.200	8.580	65.780

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

ABSTRACT

	Rs in Lakhs
Part I : New Asset Charges	800.73 Gross
	734.95 Nett
Part I (a) : Dismantling Charges	3.29
Part II : Accumulated Depreciation Charges	54.13
Part III :Devolution of old equipment to store	11.65
Part IV : Removal of old assets Charges	65.78

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

Rs. In Lakhs						
SL.NO	DESCRIPTION	QTY	RATE	PER	AMOUNT	TOTAL
I	CIVIL WORKS					
1	Land Cost (actuals)				3.975	
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				178.975	178.98
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	7 Nos	0.236	E	1.652	
9	11 kV Bus PT	3 Nos	0.511	S	1.533	
10	11 kV LAS stn. Type	3 Nos	0.0180	E	0.054	
11	11 kV LAS distn. Type	9 Nos	0.0080	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	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
19	C&R panel			LS	15.000	
20	Fire fighting equipments				3.000	
21	P&T Phone				0.100	
22	Scientific instruments				5.000	
23	Sub Total				78.886	
24	Contingencies @ 1%				0.789	
25	Total for materials				79.675	
26	Labour and Transport charges @ 15%				11.951	
27	GST on labour & transport @ 18%				2.151	
28	Total for material and labour				93.777	
29	8 MVA 33/11 kV Pr.Tr. with OLTC	1 No	88.374		88.374	
30	Labour and Transport including GST	1.00 loc	8.000		8.000	
31	Earthing	1.00 loc	0.500		0.500	
32	Sub total				190.651	
33	Estt & Sup. Charges 15%				28.598	
34	Sub Total				219.249	219.25
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	11 kV capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV link line with Dog conductor	12.2 kms.	12.000	km	146.400	
40	11 kV link line with 7/4.09 mm conductor	8.916 kms.	8.000	km	71.328	
41	Subtotal				329.12	329.12
42	Total Gross & Nett.					727.34

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 2x8 MVA, 33/11 kV POWER
TRANSFORMER AT ESANUR IN CUDDALORE 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)					
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	3.803	
3	Construction of Fire protection wall				180.000	
4	Total				3.000	
					186.803	186.80
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	0.0180	E	0.108	
11	11 kV LAS distn. Type	12 Nos	0.0080	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	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	C&R panel			LS	17.000	
19	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
20	Fire fighting equipments				3.000	
21	P&T Phone				0.100	
22	Scientific instruments				5.000	
23	Sub Total				87.240	
24	Contingencies @ 1%				0.872	
25	Total for materials				88.112	
26	Labour and Transport charges @ 15%				13.217	
27	GST on labour & transport @ 18%				2.379	
28	Total for material and labour				103.708	
29	8 MVA 33/11 kV Pr.Tr. with OLTC	2 Nos.	88.374		176.748	
30	Labour and Transport including GST	2 Nos.	8.000		16.000	
31	Earthing	2 Nos.	0.500		1.000	
32	Sub total				297.456	
33	Estt & Sup. Charges 15%				44.618	
34	Sub Total				342.075	342.07
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	33 kV link line with Doq conductor	8.98 kms.	12.000	km	107.760	
39	11 kV link line with 7/4.09 mm conductor	6.11 kms.	8.000	km	48.880	
40	11kV Capacitor bank 2.4 MVAR	1 set	27.008	set	27.008	
41	Subtotal				273.03	273.03
42	Total Gross & Nett.					801.91

DETAILED ESTIMATE FOR ESTABLISHMENT OF 33/11 kV SS WITH 1x8 MVA, 33/11 kV POWER TRANSFORMER AT ANANTHAPURAM IN PULIVANTHI VILLAGE IN VILLUPURAM 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)				1.800	
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	Concrete road				10.000	
4	Total				186.800	186.80
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	0.0180	E	0.054	
11	11 kV LAS distrn. Type	9 Nos	0.0080	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	DC panel	1 No	0.980	E	0.980	
17	AC panel	1 No	1.028	E	1.028	
18	110 V DC Annunciator Panel	1 No	1.145	E	1.145	
19	C&R panel			LS	15.000	
20	Fire fighting equipments				3.000	
21	P&T Phone				0.100	
22	Scientific instruments				5.000	
23	Sub Total				76.038	
24	Contingencies @ 1%				0.760	
25	Total for materials				76.798	
26	Labour and Transport charges @ 15%				11.520	
27	GST on labour & transport @ 18%				2.074	
28	Total for material and labour				90.392	
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	E	8.000	
31	Earthing	1 loc	0.500	E	0.500	
32	Sub total				187.266	
33	Estt & Sup. Charges 15%				28.090	
34	Sub Total				215.356	215.36
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 capacitor bank 2.4 MVAR	1 Set	27.008	set	27.008	
39	33 kV line with ACSR doq conductor	10.50 kms.	12.000	km	126.000	
40	Erection of 11 kV Link lines with 7/4.09 ACSR	5.00 kms.	8.000	km	40.000	
41	33 KV bay extension at Sittampoondi 110 KV SS				0.000	
42	Subtotal				274.89	274.89
43	Total Gross & Nett.					677.04

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

