

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Chennai Region – Chennai EDC/North - Enhancement of existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS – Revised administrative approval – Accorded.

TECHNICAL BRANCH

(Per.) MD TNPDC Proceedings No:47

Dated: 29.06.2026.
Sri Parabava Varudam,
Aani: 15,
Thiruvalluvar Aandu 2057.

READ: Chairman cum Managing Director's approval dated 23.06.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the revised proposal for enhancement of the existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS in Chennai EDC/North of Chennai Region at an estimated cost of Rs.218.18 lakhs Gross & Rs.162.29 lakhs Nett. by superseding the approval already accorded vide (Per.) CMD TANGEDCO Proceedings No.257, dt. 17.12.2022 for the above works. The detailed estimate and report are annexed to these proceedings.
2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure - Chennai EDC/ North – A/c. code No.10 20 400.
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:47, dt.29.06.2026.

To
The Chief Engineer/Distribution/Chennai Region.

Copy to:

The Director/Distribution/TNPDC/Chennai - 2
The Director/Finance/TNPDC/Chennai -2
The Chief Engineer/Material Management/Chennai -2
The Superintending Engineer/RE & I (D)/Chennai -2
The Superintending Engineer/Chennai EDC/North
The Superintending Engineer/CDC/TNPDC
The Company Secretary/TNPDC/Chennai -2
The Resident Audit Officer (AGO'S Unit) / Chennai -2
B.P.Section (Administrative Branch)
Stock file

//FORWARDED BY ORDER//


29.06.2026

EXECUTIVE ENGINEER/MASTER PLAN I

REPORT TO ACCOMPANY THE ESTIMATE

This revised proposal envisages for enhancement of the existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS in Chennai EDC / North of Chennai Region at an estimated cost of Rs.218.18 lakhs Gross & Rs.162.29 lakhs Nett. by superseding the approval already accorded vide (Per.) CMD TANGEDCO Proceedings No.257, dt. 17.12.2022 for the above works.

Need:

Administrative approval has been accorded for enhancement of existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS in Chennai EDC/North of Chennai Region at an estimated cost of Rs.140.49 Lakhs Gross & Rs.105.31 Lakhs Nett. vide (Per) CMD TNPDC Proceedings No.257, dt. 17.12.2022.

In the above sanction, the estimated cost has been arrived based on the cost data for the year 2022-23. Now, the Chief Engineer/Distribution/Chennai Region is requested revised administrative approval for the above scheme for the following reasons:

- i) The cost of 16 MVA, 33/11 kV power transformer has escalated more than 65% as per the latest ERP rate when compared with the cost adopted in the administrative approval based on the prevailing cost data at that time.
- ii) Further, additionally, provision towards 33 kV, 1x630 Sq. mm. cable is to be provided in the estimate, so as to connect the 33 kV HV Bushing of the proposed Power Transformer to the 33 kV Bus.
- iii) On evolving the working estimate, the cost exceeds the administratively approved cost. Hence, the revised administrative approval is necessary.

The reasons stated by the Chief Engineer/Distribution/Chennai Region is found to be genuine. Hence, the estimate has been revised accordingly for the proposal for enhancement of power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS.

The details of original sanction, its cost and details of revised estimate and its cost are given below:

Sl. No	Description	Cost in Lakhs	Remarks
1	Enhancement of existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS	Rs 140.49 Lakhs Gross & Rs.105.31 Lakhs Nett.	Approved vide (Per) CMD TANGEDCO Proceedings No.257, dt. 17.12.2022.
2.	Enhancement of existing power transformer capacity from 1x8+1x16 MVA to 2x16 MVA at Irulipattu 33/11 kV SS	Rs.218.18 lakhs Gross & Rs.162.29 lakhs Nett.	Revised estimate submitted for approval.
3.	Increase in cost	Rs.77.7 Lakhs	Due to revision of the estimate based on present cost data 2025-26 and deviation in works.
4.	Difference in percentage (more)	55.31%	

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

Details of work:

- Erection of 1 No. 16 MVA, 33/11 kV Power Transformer at the existing Irulipattu 33/11 kV SS.
- Dismantling of existing 1 No. 8 MVA, 33/11 kV Power Transformer at the existing Irulipattu 33/11 kV SS.


 29.06.2026
Executive Engineer/Master Plan I

**ESTIMATE FOR ENHANCEMENT OF EXISTING POWER TRANSFORMER CAPACITY
FROM 1x16+1x8 MVA TO 2x16 MVA AT IRULIPATTU 33/11 kV SS IN CHENNAI EDC
/NORTH OF CHENNAI REGION**

Part I: New Asset					
S.NO	DESCRIPTION	Quantity	RATE	PER	RS. in Lakhs
1	33 kV, 1x630 Sq.mm. XLPE cable	0.045 kms.	15.235	Km	0.686
2	33 kV, 1x630 sq.mm. XLPE cable, outdoor termination kits	3 Nos.	0.086	E	0.258
3	33 kV, 1x630 sq.mm. XLPE cable, Indoor termination kits	3 Nos.	0.056	E	0.169
4	11 kV, 1x630 Sq.mm. XLPE cable	0.09 kms.	12.829	Km	1.155
5	11 kV, 1x630 sq.mm. XLPE cable, outdoor termination kits	6 Nos.	0.086	E	0.517
6	11 kV, 1x630 sq.mm. XLPE cable, indoor termination kits	6 Nos.	0.056	E	0.338
7	Cable accessories			LS	0.500
8	Earthing & Painting			LS	1.000
9	Control Cable			LS	1.000
10	Sub total				5.623
11	Contingencies 1%				0.056
12	Cost of Material				5.679
13	Labour & Transport @15%				0.852
14	Sub total				6.531
15	16 MVA, 33/11 KV Power Transformer with OLTC	1 No.	169.905	E	169.905
16	Labour & Transport inclusive of GST	1 No.	8.00	No.	8.000
17	Plinth alteration	1 Loc	3.00	E	3.000
18	Earthing	1 No.	0.55	No.	0.550
19	Sub total				187.986
20	Estt and Supervision charges 15%				28.198
21	Add dismantling charges				2.00
22	Total Gross				218.18
23	Less Credit				55.90
24	Total Nett				162.29

Part I (a):Dismantling charges 2.00 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*c ol.6/col.5)
1	8 MVA, 33/11 kV power transformer	1	55.90	25	19	32.20
	Total					32.20

Part III Devolution of old equipment to store chargeable

Part III = Part IV - Part II 23.70 lakhs

**ESTIMATE FOR ENHANCEMENT OF EXISTING POWER TRANSFORMER CAPACITY
FROM 1x16+1x8 MVA TO 2x16 MVA AT IRULIPATTU 33/11 kV SS IN CHENNAI EDC
/NORTH OF CHENNAI REGION**

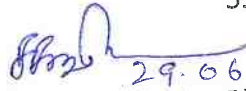
Part IV Removal of old assets chargeable

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	44.187	4.419	7.291	55.90
	Total					55.90

* 50% of latest cost data has been adopted

ABSTRACT

Part I: New Asset	Gross	218.18
	Nett	162.29
Part I (a): Dismantling charges		2.00
Part II: Accumulated Depreciation		32.20
Part III: Devolution of old equipment to store		23.70
Part IV: Removal of old assets		55.90


29.06.2026
Executive Engineer/Master Plan I