

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity – Karur Region – Karur EDC - Replacement of aged sick 8 MVA power transformer with a healthy unit of same capacity at E.Karungalpatty 33/11 kV SS – Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No: 83

Dated: 28.09.2026

Sri Parabhava Varudam

Purattasi: 11

Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated: 24.09.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the proposal for the replacement of aged sick 8 MVA power transformer with a healthy unit of same capacity at E.Karungalpatty 33/11 kV SS in Karur EDC of Karur Region at an estimated cost of Rs.65.71 lakhs Gross and Rs.34.29 lakhs Nett. and ratifies the action of the Chief Engineer/Distn./Karur Region for having replaced the sick power transformer with a healthy power transformer of same capacity in anticipation of the approval. The detailed estimates and report are annexed to these proceedings.
2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure – Karur EDC – A/c code no. 1020400.
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.

// BY ORDER OF THE CMD //

N.SIVAGAMI
CHIEF ENGINEER / PLANNING & RC (w/c)

Encl: Report and detailed estimate.

To
The Chief Engineer/Distribution/Karur 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/ Karur 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//


28.09-2026

Executive Engineer/Master Plan-I

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages replacement of aged sick 8 MVA power transformer with a healthy unit of same capacity at E.Karungalpatty 33/11 kV SS in Karur EDC of Karur Region at an estimated cost of Rs.65.71 lakhs Gross and Rs.34.29 lakhs Nett. and ratification for the action of the Chief Engineer/Distn./Karur Region for having replaced the sick power transformer with a healthy power transformer of same capacity in anticipation of the approval.

Need:

E.Karungalpatty 33/11 kV SS was in service with 1x8 MVA power transformer. The 8 MVA, 33/11 kV Venkateswara Electrical Industries Pvt. Ltd., make (Indoor) power transformer bearing Sl.No.RJM/30/16122 has been commissioned at E.Karungalpatty 33/11 kV SS on 20.03.2014. The year of manufacture of the above power transformer is 2003 and has served 23 years against its life period of 25 years.

During summer season, the temperature rise in the power transformer was high and temperature alarm got activated frequently. It was found that there was significant temperature rise, when the loading on the power transformer reached 60% of its capacity. Further, the above power transformer was not having cooling fan arrangement to cool the high temperature especially during summer. The above power transformer could not be loaded further due to heating issues.

In order to maintain the temperature level, the cooling of power transformer has been carried by pouring water externally which caused rusting of power transformer body. The MRT wing had recommended for replacement of the above power transformer with another one.

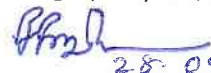
Under the above circumstances, considering ageing of Power Transformer and the recommendation of the MRT wing, it is proposed to replace the sick 8 MVA, "VEI" make Power Transformer by healthy unit of same capacity at E.Karungalpatty 33/11kV SS

Hence, the above sick unit was replaced by a healthy 8 MVA power transformer of Toshiba make bearing Sl.No.2253188 on 25.08.2025. During the above power transformer replacement, back feeding was arranged from the nearby Pallapatty 110/33-11 kV SS. Hence, this estimate has been evolved to regularize the replacement made already.

The sick power transformer is yet to be lifted for rectification works and the Chief Engineer/Distn./Karur Region is requested to take necessary action to rectify the above sick power transformer.

Details of works:

- Erection of 1 No. 8 MVA power transformer at E.Karungalpatty 33/11 kV SS.
- Dismantling of aged sick 1 No. 8 MVA power transformer at E.Karungalpatty 33/11 kV SS.


28.09.2026
Executive Engineer/Master Plan I

**Replacement of failed 8 MVA, 33/11 kV power transformer by healthy unit of same capacity
at E.Karungalpatty 33/11 kV SS in Karur EDC of Karur Region**

Part I : New Asset Chargeable to Capital

Rs.in Lakhs

SL NO	DESCRIPTION	QTY	RATE in Lakhs	PER	AMOUNT in Lakhs
1	8 MVA, 33/11 kV Power Transformer (rate as per cost data 2018-19)	1 No.	52.864	E	52.86
2	Cost of materials				52.86
3	Labour and transport charges	actual			3.473
4	Sub total				56.34
5	Estt & supervision charges @ 15%				8.45
6	Sub total				64.79
7	Dismantling charges	actual			0.92
8	Gross				65.71
9	Less credit				31.42
10	Nett				34.29

Part I (a) : Dismantling Charges

-

0.92

PART II Accumulated depreciation charges

SL. No.	DESCRIPTION	Original cost	Full Life Period	Useful Life Period	Accumulated depreciation
1	8 MVA, 33/11 KV Power Transformer	31.42	25	23	26.01
					26.01

Part III : Devolution of old equipment to store

Part III:Part IV - Part II =

31.42 - 26.01

= **5.40**

Part IV : Removal of old assets Charges

SL. NO	Name of the item	Original Cost	Original Erection Charges 10%	Original Centages 15%	Original Cost of Asset
1	8 MVA, 33/11 KV Power Transformer *	24.84	2.48	4.10	31.42
	Total				31.42

* Rate as per P.O.Tr.1055/2003

ABSTRACT

Part I : New Asset Chargeable to Capital

Rs.in Lakhs

65.71 Gross

34.29 Nett

Part I (a) : Dismantling Charges

0.92

Part II : Accumulated Depreciation Charges

26.01

Part III:Devolution of old equipment to store

5.40

Part IV : Removal of old assets Charges

31.42


 28.09.2026
 Executive Engineer/MasterPlan I