

# **TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED**

## **ABSTRACT**

Electricity – Madurai Region – Madurai EDC / Metro - Enhancement of existing power transformer capacity from 2x8 MVA to 1x16+1x8 MVA at M.G.Nagar 33/11 kV SS - Revised administrative approval - Accorded.

## **TECHNICAL BRANCH**

(Per). MD TNPDC Proceedings No: 84

Dated:28.09.2026

Parabhava Varudam

Puratasi :11

Thiruvalluvar Aandu 2057

**READ:** Chairman cum Managing Director's approval dated:23.09.2026

## **PROCEEDINGS:**

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the revised proposal for enhancement of existing power transformer capacity from 2x8 MVA to 1x16+1x8 MVA at M.G.Nagar 33/11 kV SS in Madurai EDC/Metro of Madurai Region at an estimated cost of Rs.230.60 Lakhs Gross and Rs.202.05 Lakhs Nett. by superseding the approval already accorded for the above works vide (Per). CMD.TANGEDCO Proceedings No.140, dt.08.08.2024 as detailed below.The detailed estimate and report are annexed to these proceedings.

| Sl. No | Name of the 33/11KV substation | Already approved vide BP.No and date | Already Sanctioned Amount in Rs.lakhs | Revised Sanctioned Amount in Rs.lakhs |
|--------|--------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| 1      | M.G.Nagar                      | 140 / 08.08.2024                     | 156.01 (G)<br>127.46 (N)              | 230.60 (G)<br>202.05 (N)              |

2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure - Madurai EDC/Metro - 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.
4. 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 / Madurai 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/ Transmission /Chennai -2

The Superintending Engineer/Transmission 1

The Superintending Engineer/Madurai EDC/Metro

The Superintending Engineer/GCC/Madurai

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//

  
Executive Engineer / Master Plan-II

### REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages the revised proposal for enhancement of existing power transformer capacity from 2x8 MVA to 1x16+1x8 MVA at M.G.Nagar 33/11 kV SS in Madurai EDC/Metro of Madurai Region at an estimated cost of Rs.230.60 Lakhs Gross and Rs.202.05 Lakhs Nett.

#### Need:

Administrative approval for enhancement of existing power transformer capacity from 2x8 MVA to 1x16+1x8 MVA at M.G.Nagar 33/11 kV SS in Madurai EDC/Metro of Madurai Region at an estimated cost of Rs.156.01 Lakhs Gross and Rs.127.46 Lakhs Nett. has already been accorded vide (Per). CMD.TANGEDCO Proceedings No.140, dt.08.08.2024 and the works are to be taken up.

In this connection, the Chief Engineer/Distribution/Madurai Region has requested revised administrative approval for the above work.

As the above work was 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 schemes has been revised for Madurai Region and the details of original sanction and the revised estimated cost are as below:

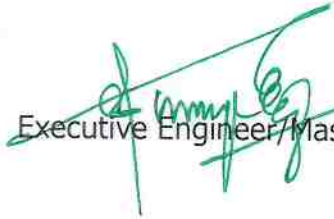
| Sl. No | Name of the 33/11KV substation | Already approved vide BP.No and date | Already Sanctioned Amount in Rs.lakhs | Revised Sanctioned Amount in Rs.lakhs | % Increase |
|--------|--------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------|
| 1      | M.G.Nagar                      | 140/08.08.2024                       | 156.01 (G)<br>127.46 (N)              | 230.60 (G)<br>202.05 (N)              | 47.81      |

As the cost variation of the schemes are either more than 10% or cost of individual material is more than 5% from the already approved cost, revised approval is necessary to take up the works.

The work involved and other terms and conditions as per the original sanction remains unaltered.

**Details of work:**

- Erection of 1 No. 16 MVA, 33/11 kV power transformer at M.G.Nagar 33/11 kV SS.
- Dismantling of existing 1 No. 8 MVA, 33/11 kV power transformer at M.G.Nagar 33/11 kV SS.

  
Executive Engineer/Master Plan-II

**DETAILED ESTIMATE FOR ENHANCEMENT OF EXISTING POWER TRANSFORMER CAPACITY  
FROM 2x8 MVA to 1x16+1x8 MVA AT M.G.NAGAR 33/11 kV SS IN MADURAI EDC/METRO**

RS. in Lakhs

| S.NO | DESCRIPTION                                                                                                                         | QTY    | RATE    | PER | AMOUNT        |
|------|-------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-----|---------------|
| 1    | 33 kV, 1x630 sq.mm. XLPE cable, 11 kV, 1x630 sq.mm. XLPE cable, outdoor/indoor termination kits, cable accessories, 'V' trough etc. |        |         | LS  | 15.000        |
| 2    | Subtotal                                                                                                                            |        |         |     | 15.000        |
| 3    | Contingencies 1%                                                                                                                    |        |         |     | 0.150         |
| 4    | Cost of Material                                                                                                                    |        |         |     | 15.150        |
| 5    | Labour and Transport @ 15%                                                                                                          |        |         |     | 2.273         |
| 6    | GST on Labour & tr. @ 18%                                                                                                           |        |         |     | 0.409         |
| 7    | Total for material and labour                                                                                                       |        |         |     | 17.832        |
| 8    | 16 MVA, 33/11 kV Power Transformer with OLTC inclusive of GST                                                                       | 1 No.  | 169.900 | E   | 169.900       |
| 9    | Plinth alteration                                                                                                                   | 1 Loc  | 2.500   | E   | 2.500         |
| 10   | Labour & Transport inclusive of GST                                                                                                 | 1 Nos. | 8.00    | No  | 8.000         |
| 11   | Earthing                                                                                                                            | 1 No   | 0.55    | No  | 0.550         |
| 12   | Subtotal                                                                                                                            |        |         |     | 198.782       |
| 13   | Estt. and Supervision charges 15%                                                                                                   |        |         |     | 29.817        |
| 14   | Subtotal                                                                                                                            |        |         |     | 228.599       |
| 15   | Add dismantling charges                                                                                                             |        |         |     | 2.00          |
| 16   | <b>Total Gross</b>                                                                                                                  |        |         |     | <b>230.60</b> |
| 17   | Less Credit                                                                                                                         |        |         |     | 28.55         |
| 18   | <b>Total Nett</b>                                                                                                                   |        |         |     | <b>202.05</b> |

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 = $0.9 * (\text{col.4} * \text{col.6} / \text{col.5})$ |
|---------|-----------------------------------|-------|------------------------|------------------|--------------------|----------------------------------------------------------------|
| 1       | 8 MVA, 33/11 kV power transformer | 1 No. | 28.55                  | 25               | 29                 | 15.42                                                          |
| 2       | Total                             |       |                        |                  |                    | 15.42                                                          |

Part III Devolution of old equipment to store chargeable

Part III = Part IV - Part II **13.13 lakhs**

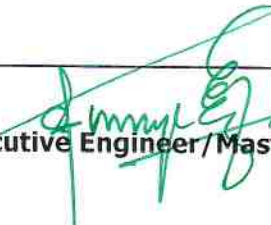
Part IV Removal of old assets chargeable

| 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 No. | 22.570                   | 2.257                     | 3.724             | 28.55                  |
| 2       | Total                             |       |                          |                           |                   | 28.55                  |

\* - rate as per cost data 1996-97 has been adopted.

**ABSTRACT**

|                                                       |              |               |
|-------------------------------------------------------|--------------|---------------|
| <b>Part I: New Asset</b>                              | <b>Gross</b> | <b>230.60</b> |
|                                                       | <b>Nett</b>  | <b>202.05</b> |
| <b>Part I (a): Dismantling charges</b>                |              | <b>2.00</b>   |
| <b>Part II: Accumulated Depreciation</b>              |              | <b>15.42</b>  |
| <b>Part III: Devolution of old equipment to store</b> |              | <b>13.13</b>  |
| <b>Part IV: Removal of old assets</b>                 |              | <b>28.55</b>  |

  
Executive Engineer/Master Plan II

