

TAMILNADU POWER DISTRIBUTION CORPORATION LIMITED
ABSTRACT

Electricity - Chennai Region – Chennai EDC / Central – Demolition of dilapidated Luz 33/11 kV Indoor SS and re-establishment of Luz 33/11 kV indoor SS with allied equipments along with control room, O&M offices / cash collection centre - Administrative approval - Accorded.

TECHNICAL BRANCH

(Per). MD TNPDC Proceedings No:89

Dated:16.10.2026

Parabava Varudam

Purattassi : 29

Thiruvalluvar Aandu 2057

READ: Chairman cum Managing Director's approval dated:15.10.2026.

PROCEEDINGS:

1. The Tamilnadu Power Distribution Corporation Ltd. hereby approves the proposal for demolition of dilapidated Luz 33/11 kV Indoor SS and re-establishment of Luz 33/11 kV indoor SS with allied equipments along with control room, O&M offices / cash collection centre in Chennai EDC/Central in Chennai Region at an estimated cost of Rs.723.40 lakhs Gross and Rs.625.87 lakhs Nett. The detailed estimate and report are annexed to these proceedings.

2. The expenditure is chargeable to TNPDC - Funds - Capital Expenditure - Chennai EDC / Central - 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 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.

4. The work is to be taken up after ensuring budget provision.

// BY ORDER OF THE CMD //

N.SIVAGAMI

CHIEF ENGINEER / PLANNING & RC (FAC)

Encl: Report and detailed estimate.

To

The Chief Engineer/Distribution/Chennai Region

(Per.) MD TNPDCCL Proceedings No: 89 dt. 16.10.2026.

Copy to:

The Director/Distribution/TNPDCCL/Chennai-2

The Director/Finance/TNPDCCL / Chennai - 2

The Chief Engineer/Material Management /Chennai -2

The Superintending Engineer/Chennai EDC/Central

The Superintending Engineer/CDC/Chennai

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//


16.10.2026

Executive Engineer/Master Plan I

REPORT TO ACCOMPANY THE ESTIMATE

This proposal envisages demolition of dilapidated Luz 33/11 kV Indoor SS and re-establishment of Luz 33/11 kV indoor SS with allied equipments along with control room, O&M offices / cash collection centre in Chennai EDC/Central in Chennai Region at an estimated cost of Rs.723.40 lakhs Gross and Rs.625.87 lakhs Nett.

Need:

The existing Luz 33/11 kV SS is in service with 2x16 MVA, Power transformers, 2 Nos. of 33 kV feeders and 10 Nos. of 11 kV feeders. The normal feeding for the above SS is being availed from Mylapore 230/33 kV SS and alternate feeding from RA Puram 230/33 kV SS.

Luz 33/11 kV SS is presently catering the loads of Luz, Part of Royapettah high road, Part of Mundakanniamman Koil street, Luz Church Road, Mylapore, Oliver Road, Kutcheri Road Ranganathapuram, Ramakrishnapuram, Chitrakulam RK Mutt Road, Part of Mandaveli, Part of Alwarpet, Venkatesha Agraharam and East Abiramapuram area.

The existing Luz 33/11 kV SS was originally established in 1956 and later during year 1990, it was modified to accommodate VCBs. It has served more than 70 years and the control room building is in dilapidated condition with visible cracks which leads to threat to the life of employees. During monsoon, rain water leaks from the ceiling causing damage to High voltage electrical equipments, control panels, Battery system, computers, meters and files in the O&M office.

Currently CMRL works are underway surrounding the existing Luz 33/11 kV SS and huge impact can be sensed in the entire building while carrying out the de-walling work.

The existing 33 kV & 11 kV breakers were commissioned during 2008 & 2006 respectively and had served more than 18 years against the full life period of 25 years. The MRT wing has stated that due to ageing, the present condition of these breakers has deteriorated considerably and they are no longer reliable for safe and continuous operation and has recommended to replace the existing aged 33 kV and 11 kV Indoor VCBs by healthy ones.

Further, fire accidents had occurred in 11 kV VCBs on 30.04.2024, 01.04.2025, 25.03.2026 & 01.07.2026 resulting damages to LV cables, CTs, PTs & control cables. Further, fire accident occurred due to the bursting of the 33 kV breaker on 28.06.2026 causing heavy damage to the substation building. The entire old civil structures and worn out circuit breakers creates difficulty in normal operation of the Sub-station.

As this substation is feeding VVIP areas and it is highly essential to re-establish Luz 33/11 kV SS with advanced features for effective functioning of the substation.

Due to dilapidated condition of ages substation, during 2020 itself, it has been proposed for renovation & revamping of Luz 33/11 kV SS. However, Superintending Engineer/CDC/TNPDCL has suggested that the re-establishment works of Luz 33/11 kV SS can be taken up after commissioning of Mundakanniamman Koil Street 33/11 kV SS, so as to maintain uninterrupted supply to the areas fed by the above substation during replacement works.

As Mundakanniamman Koil Street 33/11 kV SS has been commissioned, it is now proposed to take up the re-establishment of the above SS. During re-establishment, it is proposed to transfer the 11 kV feeder loads of Luz 33 kV SS to the nearby Mundakanniamman Koil Street 33/11 kV SS, Mylapore 110/11 kV SS and Visalatchi Thottam 33/11 kV SS.

On establishment of new 33/11 kV SS, it is proposed to dismantle and devolute the existing old 33 kV and 11 kV breakers to stores. In view of the above, provision for associated equipments required for establishment of a new 33/11 kV Indoor SS along with provision for civil works has been made in the estimate. The released equipments/materials can be utilized beneficially in needy places.

Hence, it has been proposed to demolish the existing dilapidated Luz 33/11 kV SS and re-establishment of Luz 33/11 kV indoor SS with associated equipments along with control room, O&M office except the Power Transformers, as the existing 2x16 MVA Power transformers are proposed to be re-erected at the substation on re-establishment.

Details of work involved:

- Temporary shifting of existing 2 Nos. 16 MVA Power Transformers.
- Demolition of old building and existing control room.
- Dismantling & Devolution of old 33 kV & 11 kV Breakers and AC, DC Panels.
- Re-establishment of new control room for Luz 33/11 kV Indoor SS and office accommodation with cash collection centre.
- Erection of 33 kV & 11 kV Indoor Breakers with accessories.
- Erection of 2 Nos. 16 MVA power transformer.


16.10.2026

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**DETAILED ESTIMATE FOR DISMANTLING OF OLD 33/11 kV SS AND
RE - ESTABLISHMENT OF LUZ 33/11 kV SS WITH 2x16 MVA, 33/11 kV POWER
TRANSFORMERS IN CHENNAI EDC/CENTRAL**

Part I : New Asset Chargeable to Capital

Rs. in Lakhs

SL NO	DESCRIPTION	QTY	UNIT	RATE	PER	AMOUNT
I	CIVIL WORKS					
1	Control Room building with pile foundation, RCC Cable duct, Land levelling, Water system including Sump and Septic tank, Lead road, Compound wall, Transformer plinth, RCC fire wall etc.				LS	250.00
2	First floor @ 20% of GF rate					50.00
3	Office Partitioning and Electrification					20.00
4	Dismantling of old buildings and removal of TNPDC old assets					10.00
5	Total for Civil works					330.00
II	Electrical Works					
1	33 kV VCB Indoor feeder (Incoming)	2	Nos	11.904	E	23.81
2	33 kV VCB Indoor - Transformer HV	2	Nos	13.558	E	27.12
3	33 kV Indoor Bus coupler	1	No	14.908	E	14.91
4	33 kV Indoor Bus adaptor	1	No	1.954	E	1.95
5	11 kV VCB Indoor - Transformer LV	2	Nos	6.863	E	13.73
6	11 kV VCB Indoor Feeder Panel (10 + 2 spare)	12	Nos	5.310	E	63.72
7	11 kV VCB Indoor Bus coupler	1	No.	7.091	E	7.09
8	11 kV VCB Indoor Bus adoptor	1	No	1.659	E	1.66
9	Control cable				LS	10.00
10	110 V Battery set (1 No) with 2 Chargers	1	Set	8.707	E	8.71
11	DC panel	1	No.	3.874	E	3.87
12	AC Panel	1	No.	2.868	E	2.87
13	Annunciator Panel			1.145		1.15
14	Earthing, Painting, Yard Light	1	Set	10.00	Set	10.00
15	Station Transformer 100KVA, 11kV/ 433 V	1	Set	4.737	Set	4.74
16	Scientific Instruments				LS	5.00
17	Furnitures and T&P				LS	4.00
18	Fire Fighting equipments				LS	3.00
19	SCADA				LS	20.00
20	VHF Communication					2.40
21	P & T Phone					0.10
22	33 kV, 1x630 Sq.mm. XLPE cable with accessories				LS	10.00
23	11 kV, 1x630 Sq.mm. XLPE cable with accessories				LS	10.00
24	Cost of Materials					249.81

SL NO	DESCRIPTION	QTY	UNIT	RATE	PER	AMOUNT
25	Contingencies @ 1%					2.50
26	Subtotal					252.31
27	Labour and Transport charges @ 15%					37.85
28	GST on labour & transport@ 18%					6.81
29	Sub total					296.97
30	Establishment & Supervision charges @15%					44.55
31	Sub total					341.52
32	11 kV Capacitor bank, 2.4 MVAR	1	Set	27.008	set	27.008
33	Dismantling, Shifting, Erection and overhauling of 16 MVA Pr.Tr.	2	Nos.	10.000	E	20.00
34	Dismantling of existing old breakers				LS	4.88
35	Total Electrical works					393.40
36	Total Gross					723.40
37	Less credit					97.53
38	Nett					625.87

Part I(A):Dismantling charges = **4.88** Lakhs

Part II:Accumulated Depreciation

SL. No.	Name of the item	Original cost	Total life in years	Life served in years	Accum. depre.0.9/(Cl.3x Cl.5/
1	33 kV Breaker	41.639	25	18	26.98
2	11 kV Breaker	46.753	25	20	33.66
3	Battery set	5.507	25	5	0.99
4	DC Panel	1.814	25	25	1.63
5	AC Panel	1.814	25	25	1.63
		97.53			64.90

Part III: Devolution of old equipment to stores

Part IV - Part II = 97.53 - 64.90 **32.63** lakhs

Part IV: Removal of old asset

SL. NO	Name of the item	QTY	Original Cost *	Original Erection Charges 10%	Original Centages 15%	Original Cost of Asset
1	33 kV Breaker	5	32.916	3.292	5.431	41.639
2	11 kV Breaker	13	36.959	3.696	6.098	46.753
3	Battery set	1	4.354	0.435	0.718	5.507
4	DC Panel	1	1.937	0.143	0.237	1.814
5	AC Panel	1	1.434	0.143	0.237	1.814
	Total					97.53

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

ABSTRACT

Part - I:Cost of new asset

Rs.in Lakhs

GROSS 723.40
NETT 625.87

Part I(A):Dismantling charges

4.88

Part II:Accumulated Depreciation

64.90

Part III: Devolution of old equipment to stores

32.63

Part IV: Removal of old asset

97.53


16.10.2026
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