



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

D.No :SP.O.O.Ms.No.47, Dt:06-01-2026

Dedicated feeder to Clock Tower SS from Chilkalguda EHT SS

Estimate for providing of 33KV dedicated source to 33/11kV Clock Tower SS from 132/33kV Chilkalguda GIS EHT SS by laying of 33KV 3X400sq.mm XLPE UG cable (Single Run) for a distance of 2.953KM in Lines James Street Section of Nehru nagar Sub Division in Paradise Operation Division and work executed by the Master plan SD-V Sub-Division of MP-1 Division of Hyderabad Master plan Circle under T&D Improvements to original works (Summer Action Plan 2026).

Report to Accompany:

General: The Estimate proposal is for providing of 33KV dedicated source to 33/11kV Clock Tower SS from 132/33kV Chilkalguda GIS EHT SS by laying of 33KV 3X400sq.mm XLPE UG cable (Single Run) for a distance of 2.953KM in Lines James Street Section of Nehru nagar Sub Division in Paradise Operation Division and work executed by the Master plan SD-V Sub-Division of MP-1 Division of Hyderabad Master plan Circle under T&D Improvements to original works (Summer Action Plan 2026).

As per the request of Superintending Engineer/SCADA vide Lr.No.SE/SCADA/DE(T)/ADE(T&M)/AE(T)/F.No.Budget/D.No.4056/2025, Dt:15.10.2025 and accordingly budget for the said proposal has been allocated vide reference U.O.No.CE(O&M)/SE(O&M)/DE(O&M) -I/F.20/D. No. 1726/25-26, Dt: 24.10.2025 and as per instruction from higher officials vide references, Memo.No.CE(O&M)/SE(O&M)/DE(O&M)-II/D.No.1705/25-26, Dt:14.08.2025 & Endt.No:CE/MP/DE(T)/ADE(T)/F.No.1025/D.No.23/08/25, the joint inspection was conducted along with Lines wing under control of the ADE/Lines/Nehrunagar, SCADA Circle on Dt: 12.11.2025 and thus, estimate was prepared with the following features.

Main Features:

The proposal envisages the following:

- a) Laying & Raising of 33KV 3X400sq.mm XLPE UG cable (Single Run) for a distance of 2.953KM & 47Mtrs respectively which includes
 - 1). Laying of Single Run 33kV UG in CC/BT (compressor) # 2.593KM
 - 2). Laying of Single Run 33kV UG across CC/BT (Road Crossing) # 250Mtrs
 - 3) Laying of Single Run 33kV UG in Hard Gravel # 80Mtrs
 - 4) Laying of Single Run 33kV UG in Hard Rock # 30Mtrs
- b) Erection of 33kV 800A D/B Line AB Switches # 2No's (1No. at EHT SS & 1No. at 33/11KV Clock Tower SS)
- c) Erection of RS Joist 175X85mm box poles - 2No's
- d) Erection of RS Joist 175X85mm bit poles - 2No's
- e) Road cutting permission charges for - BT road GHMC/R&B including centage charges for 3KM for an amount of Rs.79,51,140/- (Excl. GST).

Note: The rates adopted in the estimate are as per SSR FY 2025-26.

Justification:-

The 33/11kV Clock Tower SS with a capacity of 2X12.5MVA and 1X8MVA PTRs has 2 sources of supply from (i) 132/33KV Chilkalguda GIS EHT SS i.e., from 33KV Chilkalguda feeder (regular source) 250A, date: 24.04.2025 at 15:00Hrs & (ii) 33KV Patigadda-Clock Tower feeder UG I area feeder from 132KV Patigadda SS (alternate source) 155A, date: 23.04.2025 at 13:00Hrs.

Field inspection was conducted along with AE/Lines/James Street from 132/33KV Chilkalguda GIS EHT SS to 33/11KV Clock Tower SS. The existing 33KV Chilkalguda-Clock tower feeder is overloaded (more than 250A in 2025 Summer) & also cable is getting overheated. For upcoming Summer there is a scope to exceed 20% load. In order to get relief to the existing circuit, second circuit is essential. Hence, the proposal is required. As per the field conditions the estimate is prepared. in view of the above the dedicated UG cable for the 33KV Clock Tower from 132/33KV IDPL EHT SS to 33/11KV Clock Tower SS was proposed under Summer Action Plan-2026.

Hence, this estimate is prepared and submitted for sanction.



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-004

Division	: CGM/MP & LINES	Section	: AE/MASTER PLAN 5
Project Type	: T&D Improvements to original works	Cost Center	: 112120101
Estimate No.	: T-2527-12-01-02-01-004	Estimate Description	: Dedicated feeder to Clock Tower SS from
Network No.	: 510000328681	Estimate Created Date	: 14.11.2025
Reservation No.	: 8002874594	Plant	: 1080
User Status	: APRD NBGD	System Status	: CRTD AVAC
Estimate Approved date	: 06.01.2026	Estimate Sanctioned By	: CGM_OPN

Total Estimate Cost (Gross):		27313089.79
Less Credits :		0.00
Estimate Cost (Net) :		27313089.79
SL.No.	Proposals involves	Total in Rs.
1	10 - 33kV Line Material	13080953.23
2	20 - 33kV line Labour	4849791.3624
3	30 - Road CUtting charges	9382345.2



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-004

Activity No : 10

Activity Description : 33kV Line Material

S.No	Materials Code	Materials Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	CBX30006	33KV Tree Retardant XLPE UG Cb 3x400Sqmm	Stock item	3,000.000	M	3,547.53	10,642,590.00
2	SCB10114	33KV 3X400 Heat Shble out/d end ter kit	Stock item	3	EA	5,342.09	16,026.27
3	SCB10115	33KV 3X400 Heat Shble in/d end ter kit	Stock item	1	EA	3,995.46	3,995.46
4	SCB10113	33KV 3X400 Heat Shble Str thr joint kit	Stock item	12	EA	29,462.33	353,547.96
5	ABS30004	33KV 800A D/B AB SWITCH WITH INSULATORS	Stock item	2	EA	61,108.57	122,217.14
6	MST00032	RS Joist 175x85mm	Stock item	1,500.000	KG	71.96	107,940.00
7	MST00012	MS Channel 100x50 mm	Stock item	300.000	KG	65.73	19,719.00
8	MST00015	MS Flat 75x8	Stock item	160.000	KG	66.55	10,648.00
Material Cost							11,276,683.83
3 % S & H Charges :							338300.51
3 % Contingencies on materials:							338300.51
10 % Estt. & General Charges :							1127668.38
Total :							13080953.23



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-004

Activity No : 20

Activity Description : 33kV line Labour

S.No	Services Code	Services Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR22092	survey line&cabl inc peg mark&tree clear	—	3.000	KM	765.00	2,295.00
2	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	10	DR	1,024.00	10,240.00
3	SWR11860	Transport of Cond Drum,VCBs upto 10Km	—	5	EA	2,720.34	13,601.70
4	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	10	DR	1,024.00	10,240.00
5	SWR11927	Lay-SR 33KV 3x400sqmm UG Cb CC/BT Compsr	—	2,593.000	M	1,175.56	3,048,227.08
6	SWR11936	Lay-SR 33KV 3x400sqmm UG Cb CC/BT RdCrsg	—	250.000	M	1,319.84	329,960.00
7	SWR11918	Lay-SR 33KV 3x400sqmm UG Cb HG/BC/CC/BT	—	80.000	M	572.10	45,768.00
8	SWR11003	Laying of 33kV UG 1Run in Hard rock.	—	30	RMT	1,287.00	38,610.00
9	SWR25089	S&E-Smart RFID marker	—	32	EA	2,745.00	87,840.00
10	SWR10382	Straight through joint 33kv 3x400 xlpe	—	12	EA	5,700.78	68,409.36
11	SMR40081	S-6" B Class GI pipe 5mm thck 20Kg/M	—	120.000	M	1,344.00	161,280.00
12	SMR11610	S-6" DWC pipe	—	100.000	M	1,012.00	101,200.00
13	SMR40001	Hume pipe 9" size	—	20.000	M	125.00	2,500.00
14	SWR10387	OD/ldoor end termination 33kv 3x400 xlpe	—	4	EA	2,764.76	11,059.04
15	SWR11954	Raise-SR 33KV 3x400sqmm UG Cb on support	—	47.000	M	135.66	6,376.02
16	SWR21903	Consult charg for providng traffic diver	—	2,800.000	M	30.00	84,000.00
17	SWR10206	LOADING of MS Channel,Angles,Flats&Rods	—	0.460	TO	221.00	101.66
18	SWR10524	UNLOADING of MS Channel,Angles,Flats&Rod	—	0.460	TO	185.00	85.10
19	SWR10204	LOADING of R.S. Joists 175 x 85 mm	—	6	EA	76.00	456.00
20	SWR10132	TRANSPORT OF STEEL 10 TO 20KM	—	1.960	TO	412.08	807.68
21	SWR10522	UNLOADING of R.S. Joists 175 x 85 mm	—	6	EA	50.00	300.00
22	SWR10642	Fabricate&Paint- 175x85/150x75mm RS Joist	—	3	EA	512.55	1,537.65
23	SWR10640	Painting of RS Joist(1C RO, 2C Al.Paint)	—	3	EA	1,132.00	3,396.00
24	SWR11040	Ex of Hard pit w/o blast	—	2	EA	990.68	1,981.36



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-004

		0.75X0.9X1.95M					
25	SWR11266	Erection of 9/10/11Meter Box pole	—	2	EA	2,643.83	5,287.66
26	SWR10918	Earthing for raisers of SS Flat 75x8 mm.	—	34.043	RMT	50.00	1,702.15
27	SWR10356	Mass concreting of supports incl. cement	—	3.150	M3	6,579.00	20,723.85
28	SWR11890	Coping & Muffing-Iron Pole	—	0.093	M3	3,893.01	362.05
29	SWR10869	Fabrication of struc.with welding.	—	0.300	TO	3,426.00	1,027.80
30	SWR10239	LOADING of 33 KV AB SWCH Con 400/800 A	—	2	EA	126.00	252.00
31	SWR10557	UNLOADING of 33 KV AB SWCH Con 400/800 A	—	2	EA	79.00	158.00
32	SWR10392	Erection of 33kv ABSwitch incl earthing	—	2	EA	4,500.00	9,000.00
33	SMR11483	S-CI Pipe earthing 80mm dia 2.75m long	—	4	EA	2,789.00	11,156.00
34	SWR10357	ERECT. OF LINES-Providing of earthing	—	4	EA	1,234.20	4,936.80
35	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	4	EA	386.00	1,544.00
36	SMR40085	S-RCC Cable Joint/Route Marker	—	27	EA	484.00	13,068.00
37	SWR12101	Paint-Feeder Name on Support incl. Paint	—	2	EA	53.00	106.00
38	SMR11488	S-GI Bolts & Nuts,Washers etc.,	—	50.000	KG	117.50	5,875.00
39	SWR10881	Painting AB switch OP rods with PO red	—	2	EA	142.00	284.00
40	SWR12331	AB Switch Coil Earthing GI No. 8 Wire	—	2	EA	146.63	293.26
41	SWR20863	R.S. joist box poles erection complete	—	2	EA	1,044.23	2,088.46
42	SWR11039	Exca Hard pit w/o blast 0.76X0.76X1.83M	—	2	EA	928.00	1,856.00
Service Cost							4,109,992.68
GST 18%							739,798.68
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							4849791.36



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-004

Activity No : 30

Activity Description : Road CUTting charges

S.No	Services Code	Services Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR24700	Road Cutting - BT Road in GHMC/R&B	—	3,000.000	M	2,275.00	6,825,000.00
2	SWR25246	Centage Chrgs-16.5% on RMT-BT GHMC/R&B	—	3,000.000	M	375.38	1,126,140.00
Service Cost							7,951,140.00
GST 18%							1,431,205.20
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							9382345.20

Copy to:

THE ASSISTANT ENGINEER//AE/MASTER PLAN 5