



## SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

**D.No :SPOO.Ms.No.99 Dtd:20.01.2026**

33kV feeder to Khilwath-Petlaburz-Salarjung sub-stations

2nd alternate source to 33/11KV Khilwath SS from 132/33KV Seetharambagh EHT SS

Estimate for providing of 33KV alternate source (new 33KV feeder) to 33/11kV Khilwath SS from 132/33KV Seetharambagh EHT SS duly extending to 33/11kV Petlaburz SS & 33/11kV Salarjung SS by laying of 33KV 3X400Sq.mm XLPE UG Cable for 4.1KM (Double Run) & 3KM (Single Run) from the EHT SS to near Nayapul Bridge & Nayapul Bridge to 33/11kV Khilwath, Petlaburz and Salarjung sub-stations respectively in Hyderabad South operation division of Hyderabad South Circle and the work executed by the Master Plan SD-III of Master plan Division-II in Master plan Hyderabad Circle under T&D Improvements to original works (Summer Action Plan 2026).

Report to accompany the estimate:

General:- The Estimate proposal is for providing of 33KV alternate source (new 33KV feeder) to 33/11kV Khilwath SS from 132/33KV Seetharambagh EHT SS duly extending to 33/11kV Petlaburz SS & 33/11kV Salarjung SS by laying of 33KV 3X400Sq.mm XLPE UG Cable for 4.1KM (Double Run) & 3KM (Single Run) from the EHT SS to near Nayapul Bridge & Nayapul Bridge to 33/11kV Khilwath, Petlaburz and Salarjung sub-stations respectively in Hyderabad South operation division of Hyderabad South Circle and the work executed by the Master Plan SD-III of Master plan Division-II in Master plan Hyderabad Circle under T&D Improvements to original works (Summer Action Plan 2026).

Main features:

The proposal envisages the following:

- Laying & Raising of 33KV 3X400sq.mm XLPE UG cable (Double Run) for a distance of 4.1KM & 40Mtrs respectively
- Laying & Raising of 33KV 3X400sq.mm XLPE UG cable (Single Run) for a distance of 3KM & 70Mtrs respectively
- Laying & Raising of 33KV 1CX400sq.mm Copper XLPE UG cable (4Run) for a distance of 135Mtrs & 40Mtrs respectively
- Erection of DP Structures RS joist 175X85mm poles - 6No's
- Erection of RS joist 175X85mm box poles for cable raising - 6No's
- Erection of 33KV 800A D/B AB Switches on now proposed DP Structures - 6No's
- Erection of 33KV Lightning arrestors line type (at DP structures) - 6Sets
- Supply & Providing of RFID Markers - 70No's
- Erection of 33kv 3-way RMU - 1No.
- Road cutting charges for an amount of Rs.2,91,54,140/- (Excl. GST) which includes
  - BT in GHMC/R&B 2 to 6 run any run - 4KM
  - BT road GHMC/R&B - 3KM.

Necessity & Justification:-

At present the 33/11KV Khilwath Sub-Station consists of 2 No's PTRs with capacities 2X12.5MVA and this sub-station has 1 No. main source & 1 No. interlinking Line.

i) Regular source of supply: 33KV Imlibun-Khilwath feeder emanating from 132/33KV Imlibun EHT SS, with maximum load of 214 Amps recorded on 06.05.2024 @ 20:00Hrs.

ii) 1st alternate source: 33KV Devibagh-Khilwath interlinking Line.

In this Sub-Station, if 33kv Imlibun-Khilwath Source overloaded or if any fault occurs on this feeder, the total SS load cannot be managed on the existing alternate source (interlinking line).

Therefore, it is necessitated to provide another alternate source to this 33/11KV Khilwath SS from 132/33kv Seetharambagh EHT SS for providing reliable and uninterrupted power supply to the consumers.

In view of the above, a new 33kv feeder from new 132/33kv Seetharambagh EHT SS is proposed under 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. During the meeting held in the chambers of Chief Engineer/ Master Plan on Dt: 06.11.2025 conducted by Chief Engineer/Master Plan along with SCADA wing, it was proposed to extend the source from 132/33KV

Seetharambagh EHT SS-Khilwath to 33/11kV Petlaburz and 33/11kV Salarjung sub-stations by proposing Double Run from 132/33kv Seetharambagh EHT SS to Nayapul Bridge and Single Run from Nayapul Bridge to three sub-stations;

1) 33/11kV Khilwath, 33/11kV Petlaburz and 33/11kV Salarjung.

Hence, this estimate is submitted for sanction.



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Estimate Number : T-2527-12-02-03-01-004

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

Division	: CGM/MP & LINES	Section	: AE/MASTER PLAN 3
Project Type	: T&D Improvements to original works	Cost Center	: 112230101
Estimate No.	: T-2527-12-02-03-01-004	Estimate Description	: 33kV feeder to Khilwath-Petlaburz-Salarj
Network No.	: 510000328564	Estimate Created Date	: 14.11.2025
Reservation No.	: 8002874469	Plant	: 1080
User Status	: APRD NBGD	System Status	: CRTD AVAC
Estimate Approved date	: 20.01.2026	Estimate Sanctioned By	: CGM_OPN

Total Estimate Cost (Gross):		109296618.76
Less Credits :		0.00
Estimate Cost (Net) :		109296618.76
SL.No.	Proposals involves	Total in Rs.
1	10 - 33kV Material	56510102.15
2	20 - 33kV Labour	18384631.4098
3	30 - Road cutting charges	34401885.2



# SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-02-03-01-004

Activity No : 10

Activity Description : 33kV Material

S.No	Materials Code	Materials Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	CBX30006	33KV Tree Retardant XLPE UG Cb 3x400Sqmm	Stock item	11,350.000	M	3,547.53	40,264,465.50
2	BRK30024	33KV 3-way RMU with VCB	Stock item	1	EA	2,998,631.80	2,998,631.80
3	SCB10114	33KV 3X400 Heat Shble out/d end ter kit	Stock item	14	EA	5,342.09	74,789.26
4	SCB10115	33KV 3X400 Heat Shble in/d end ter kit	Stock item	3	EA	3,995.46	11,986.38
5	SCB10113	33KV 3X400 Heat Shble Str thr joint kit	Stock item	38	EA	29,462.33	1,119,568.54
6	CBX30003	33KV 1CX400 Sqmm Copper XLPE UG Cable	Stock item	700.000	M	4,326.15	3,028,305.00
7	ABS30004	33KV 800A D/B AB SWITCH WITH INSULATORS	Stock item	6	EA	61,108.57	366,651.42
8	MST00032	RS Joist 175x85mm	Stock item	9,000.000	KG	71.96	647,640.00
9	MST00014	MS Flat 50x6 mm	Stock item	900.000	KG	66.67	60,003.00
10	MST00012	MS Channel 100x50 mm	Stock item	1,500.000	KG	65.73	98,595.00
11	LAS00003	33KV Lightning Arrestors Line Type	Stock item	18	EA	2,498.30	44,969.40
<b>Material Cost</b>							48,715,605.30
<b>3 % S &amp; H Charges :</b>							1461468.16
<b>3 % Contingencies on materials:</b>							1461468.16
<b>10 % Estt. &amp; General Charges :</b>							4871560.53
<b>Total :</b>							56510102.15



# SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-02-03-01-004

Activity No : 20

Activity Description : 33kV 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	—	7.000	KM	765.00	5,355.00
2	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	38	DR	1,024.00	38,912.00
3	SWR11865	Transport of Cond Drum,VCBs >80 &<100Km	—	19	EA	5,839.50	110,950.50
4	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	38	DR	1,024.00	38,912.00
5	SWR11980	Lay-DR 33KV 3x400sqmm UG Cb CC/BT Compsr	—	3,800.000	M	1,388.84	5,277,592.00
6	SWR11988	Lay-DR 33KV 3x400sqmm UG Cb CC/BT RdCrsg	—	200.000	M	1,587.07	317,414.00
7	SWR11001	HDD cable with HDPE pipe in Hard rock	—	200.000	M	6,993.00	1,398,600.00
8	SWR10988	Lay-2nd Cable in Excavated Trench	—	4,000.000	M	204.10	816,400.00
9	SWR11927	Lay-SR 33KV 3x400sqmm UG Cb CC/BT Compsr	—	3,000.000	M	1,175.56	3,526,680.00
10	SWR12004	Raise-DR 33KV 3x400sqmm UG Cb on support	—	40.000	M	323.85	12,954.00
11	SWR11954	Raise-SR 33KV 3x400sqmm UG Cb on support	—	70.000	M	135.66	9,496.20
12	SWR25089	S&E-Smart RFID marker	—	70	EA	2,745.00	192,150.00
13	SMR40081	S-6" B Class GI pipe 5mm thck 20Kg/M	—	1,000.000	M	1,344.00	1,344,000.00
14	SMR11610	S-6" DWC pipe	—	1,000.000	M	1,012.00	1,012,000.00
15	SWR21903	Consult charg for providng traffic diver	—	6,500.000	M	30.00	195,000.00
16	SWR10387	OD/Idoor end termination 33kv 3x400 xlpe	—	17	EA	2,764.76	47,000.92
17	SWR10382	Straight through joint 33kv 3x400 xlpe	—	38	EA	5,700.78	216,629.64
18	SWR20871	Construction of plinth for 3way RMUs etc	—	1	EA	6,000.00	6,000.00
19	SWR11335	Erect-33KV 3 Way RMU	—	1	EA	5,775.00	5,775.00
20	SMR11484	S-CI Pipe earthing 50mm dia 2m long	—	2	EA	2,441.00	4,882.00
21	SMR11485	S-Earthing GI flat 25x3 mm incl material	—	10.000	KG	105.00	1,050.00
22	SWR12125	Run-GI Earth Flat 25x3mm from metallic p	—	20.000	M	14.03	280.60
23	SWR10357	ERECT. OF LINES-Providing of earthing	—	2	EA	1,234.20	2,468.40
24	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	2	EA	386.00	772.00



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**Estimate Number : T-2527-12-02-03-01-004**

25	SWR12101	Paint-Feeder Name on Support incl. Paint	—	2	EA	53.00	106.00
26	SWR11971	Lay-SR 33KV 1x400sqmm Cu Cb FootPathSlab	—	540.000	M	308.55	166,617.00
27	SWR11962	Raise-SR 33KV 1x400sqmm UG Cb on support	—	160.000	M	121.13	19,380.80
28	SMR24773	S-33KV 1Cx400Sqmm PlugTerminationKit	—	4	EA	90,915.00	363,660.00
29	SWR24773	Inst-33KV 1Cx400Sqmm PlugTerminationKit	—	4	EA	15,675.00	62,700.00
30	SMR24774	S-33KV 1Cx400Sqmm O/d Cb End Kit	—	4	EA	6,792.50	27,170.00
31	SWR24774	Inst-33KV 1Cx400Sqmm O/d Cb End Kit	—	4	EA	3,030.50	12,122.00
32	SWR10206	LOADING of MS Channel,Angles,Flats&Rods	—	2.400	TO	221.00	530.40
33	SWR10524	UNLOADING of MS Channel,Angles,Flats&Rod	—	2.400	TO	185.00	444.00
34	SWR10204	LOADING of R.S. Joists 175 x 85 mm	—	36	EA	76.00	2,736.00
35	SWR10132	TRANSPORT OF STEEL 10 TO 20KM	—	11.400	TO	412.08	4,697.71
36	SWR10522	UNLOADING of R.S. Joists 175 x 85 mm	—	36	EA	50.00	1,800.00
37	SWR10642	Fabricate&Paint- 175x85/150x75mm RS Joist	—	18	EA	512.55	9,225.90
38	SWR10640	Painting of RS Joist(1C RO, 2C Al.Paint)	—	18	EA	1,132.00	20,376.00
39	SWR11040	Ex of Hard pit w/o blast 0.75X0.9X1.95M	—	18	EA	990.68	17,832.24
40	SWR11276	Erect-33KV DP Structure with RS Joist	—	6	SET	5,670.00	34,020.00
41	SWR11266	Erection of 9/10/11Meter Box pole	—	6	EA	2,643.83	15,862.98
42	SWR10919	Earthing for raisers of SS Flat 50x6 mm.	—	375	RMT	41.00	15,375.00
43	SWR10356	Mass concreting of supports incl. cement	—	18.360	M3	6,579.00	120,790.44
44	SWR11890	Coping & Muffing-Iron Pole	—	0.372	M3	3,893.01	1,448.20
45	SWR10869	Fabrication of struc.with welding.	—	1.500	TO	3,426.00	5,139.00
46	SWR10239	LOADING of 33 KV AB SWCH Con 400/800 A	—	6	EA	126.00	756.00
47	SWR10557	UNLOADING of 33 KV AB SWCH Con 400/800 A	—	6	EA	79.00	474.00
48	SWR10392	Erection of 33kv ABSwitch incl earthing	—	6	EA	4,500.00	27,000.00
49	SWR12331	AB Switch Coil Earthing GI No. 8 Wire	—	6	EA	146.63	879.78
50	SWR10881	Painting AB switch OP rods with	—	6	EA	142.00	852.00



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Estimate Number : T-2527-12-02-03-01-004

		PO red					
51	SWR10266	LOADING of 33 KV10 KA LAs Station type	—	18	EA	41.00	738.00
52	SWR10584	UNLOADING of 33 KV10 KA LAs Station type	—	18	EA	35.00	630.00
53	SWR10396	Erect of 33kv LA stn type incl earthing	—	6	SET	880.00	5,280.00
54	SMR11483	S-CI Pipe earthing 80mm dia 2.75m long	—	12	EA	2,789.00	33,468.00
55	SWR10357	ERECT. OF LINES-Providing of earthing	—	12	EA	1,234.20	14,810.40
56	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	12	EA	386.00	4,632.00
57	SWR12101	Paint-Feeder Name on Support incl. Paint	—	6	EA	53.00	318.00
58	SMR11488	S-GI Bolts & Nuts,Washers etc.,	—	60.000	KG	117.50	7,050.00
<b>Service Cost</b>							15,580,196.11
<b>GST 18%</b>							2,804,435.30
<b>3 % S &amp; H Charges :</b>							0.00
<b>3 % Contingencies on materials:</b>							0.00
<b>10 % Estt. &amp; General Charges :</b>							0.00
<b>Total :</b>							18384631.41



# SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-02-03-01-004

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	SWR25244	Road Cutting-BT in GHMC/R&B 2to6 any Run	—	4,000.000	M2	4,550.00	18,200,000.00
2	SWR25245	Centage Chrgs-16.5% on SWR25212	—	4,000.000	M2	750.75	3,003,000.00
3	SWR24700	Road Cutting - BT Road in GHMC/R&B	—	3,000.000	M	2,275.00	6,825,000.00
4	SWR25246	Centage Chrgs-16.5% on RMT-BT GHMC/R&B	—	3,000.000	M	375.38	1,126,140.00
Service Cost							29,154,140.00
GST 18%							5,247,745.20
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							34401885.20

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