



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

D.No :SP.O.O.Ms.No.35, Dt:06-01-2026

33kV Alwal dedicated feeder from 132kV Gun Rock SS

Estimate proposal for providing of 132kV GUN ROCK EHT supply to 33/11kV ALWAL SS by laying of 3 km single run of 3X400Sqmm. XLPE UG Cable from 132kV GIS GUN Rock SS pertaining to Lines Bowenpally section Sub Division of Nehru nagar in cantonment 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 Improvement Works(Summer Action Plan-2026)

Main Features:

The proposal envisages the following:

In 33kV Line work:

- Laying & Raising of 33kV 3X400Sq.mm XLPE UG Cable Double Run for a distance of 5.153KM & 47Mtrs which includes:
 - Laying of Single Run 33kV UG in CC/BT (CC/BT Compressor) # 4653Mts.
 - Laying of Single Run 33kV UG across CC/BT (Road crossing) #400m
 - Laying of Single Run 33kV UG in Hard Gravel CC/BT# 50m
 - Laying of Single Run 33kV UG in Hard Rock # 50m
 - Laying of 33KV UG cable by HDD method # 1000m
- Erection of RS joist 175X85mm box poles - 3No.s
- Erection of 33KV 800A D/B AB Switch on now proposed DP Structure - 2No.s
- Road cutting permission charges for an amount of Rs.13,781,976/-(Excl GST)

Justification:-

The existing 33/11kV Substation with a capacity of 2X12.5MVA PTR#s has two sources of supply from 1)132/33KV Gunrock EHT SS i.e from 33KV Gunrock #Alwal feeder(regular source)(260A Date :22.04.2025 for 22Hrs) ii) 33Kv Gunrock-Hakimpeta UGI Area feeder from 33KV Hakimpet SS(alternate) (186A on 22.04.2025 at 22:00 Hrs).Field inspection was conducted along with AE/Lines/Bowenpally from 132/33KV Gunrock EHT SS to 33/11KVAlwal SS. The existing 33KV Alwal feeder is overloaded(more than 260A in 2025 summer) & also the cable is getting overheated. For upcoming summer there is scope to exceed 20% load. In order to get relief to the existing circuit is essential. Hence, the proposal is required.

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 and submitted for sanction.

Division	: CGM/MP & LINES	Section	: AE/MASTER PLAN 5
Project Type	: T&D Improvements to original works	Cost Center	: 112120101
Estimate No.	: T-2527-12-01-02-01-007	Estimate Description	: 33kV Alwal dedicated feeder from 132kV G
Network No.	: 510000328687	Estimate Created Date	: 14.11.2025
Reservation No.	: 8002874705	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):	46895679.70
Less Credits :	0.00



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Estimate Number : T-2527-12-01-02-01-007

Estimate Cost (Net) :		46895679.70
SL.No.	Proposals involves	Total in Rs.
1	10 - 33kV Line Material	22367287.1
2	20 - 33kV line Labour	8265660.9202
3	30 - Road CUTting charges	16262731.68



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-007

Activity No : 10

Activity Description : 33kV Line 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	5,200.000	M	3,547.53	18,447,156.00
2	SCB10114	33KV 3X400 Heat Shble out/d end ter kit	Stock item	2	EA	5,342.09	10,684.18
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	19	EA	29,462.33	559,784.27
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							19,282,144.05
3 % S & H Charges :							578464.32
3 % Contingencies on materials:							578464.32
10 % Estt. & General Charges :							1928214.41
Total :							22367287.10



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2527-12-01-02-01-007

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	—	5.200	KM	765.00	3,978.00
2	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	17	DR	1,024.00	17,408.00
3	SWR11860	Transport of Cond Drum,VCBs upto 10Km	—	9	EA	2,720.34	24,483.06
4	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	17	DR	1,024.00	17,408.00
5	SWR11927	Lay-SR 33KV 3x400sqmm UG Cb CC/BT Compsr	—	4,653.000	M	1,175.56	5,469,880.68
6	SWR11936	Lay-SR 33KV 3x400sqmm UG Cb CC/BT RdCrsg	—	400.000	M	1,319.84	527,936.00
7	SWR11918	Lay-SR 33KV 3x400sqmm UG Cb HG/BC/CC/BT	—	50.000	M	572.10	28,605.00
8	SWR11003	Laying of 33kV UG 1Run in Hard rock.	—	50	RMT	1,287.00	64,350.00
9	SWR25089	S&E-Smart RFID marker	—	52	EA	2,745.00	142,740.00
10	SWR10382	Straight through joint 33kv 3x400 xlpe	—	19	EA	5,700.78	108,314.82
11	SMR40081	S-6" B Class GI pipe 5mm thck 20Kg/M	—	20.000	M	1,344.00	26,880.00
12	SMR11610	S-6" DWC pipe	—	300.000	M	1,012.00	303,600.00
13	SMR40001	Hume pipe 9" size	—	50.000	M	125.00	6,250.00
14	SWR10387	OD/ldoor end termination 33kv 3x400 xlpe	—	3	EA	2,764.76	8,294.28
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	—	5,000.000	M	30.00	150,000.00
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	—	3	EA	990.68	2,972.04



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		0.75X0.9X1.95M					
25	SWR11266	Erection of 9/10/11Meter Box pole	—	3	EA	2,643.83	7,931.49
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	—	48	EA	484.00	23,232.00
37	SWR12101	Paint-Feeder Name on Support incl. Paint	—	3	EA	53.00	159.00
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
Service Cost							7,004,797.39
GST 18%							1,260,863.53
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							8265660.92



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Estimate Number : T-2527-12-01-02-01-007

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	—	5,200.000	M	2,275.00	11,830,000.00
2	SWR25246	Centage Chrgs-16.5% on RMT-BT GHMC/R&B	—	5,200.000	M	375.38	1,951,976.00
Service Cost							13,781,976.00
GST 18%							2,480,755.68
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							16262731.68

Copy to:

THE ASSISTANT ENGINEER//AE/MASTER PLAN 5