



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

D.No :SP.O.O.Ms.No.2738, Dt.15-12-2025

Bifurcation of 33KV Mannapur feeder emanating from 132/33KV Zaheerabad EHT SS.

Estimate for bifurcation of loads from 33KV Mannapur feeder emanating from 132/33KV Zaheerabad EHT SS by erection of 12.25KM 33KV line from 132/33KV Zaheerabad EHT SS to 33/11KV Mannapur SS which involves laying of 0.25KM 33KV 3X400sq.mm XLPE UG cable (Double Run) and stringing of 12KM 33KV SCOH line with 100sq.mm AAA conductor over now proposed 12.5Mtrs/11Mtrs Poles in Mannapur Section of Zaheerabad Town Sub-Division of Zaheerabad Division in Sangareddy Circle under T&D Improvements to original works (Summer Action Plan-2026).

REPORT TO ACCOMPANY THE ESTIMATE

General:- The Estimate proposal is for bifurcation of loads from 33KV Mannapur feeder emanating from 132/33KV Zaheerabad EHT SS by erection of 12.25KM 33KV line from 132/33KV Zaheerabad EHT SS to 33/11KV Mannapur SS which involves laying of 0.25KM 33KV 3X400sq.mm XLPE UG cable (Double Run) and stringing of 12KM 33KV SCOH line with 100sq.mm AAA conductor over now proposed 12.5Mtrs/11Mtrs Poles in Mannapur Section of Zaheerabad Town Sub-Division of Zaheerabad Division in Sangareddy Circle under T&D Improvements to original works (Summer Action Plan-2026).

Main Features:-

The proposal envisages the following:

- Laying and raising of 33KV 3X400sq.mm XLPE UG Cable (Double Run) for a distance of 250Mtrs and 50Mtrs respectively.
- Stringing of 33KV line with 100sq.mm AAA conductor for a distance of 12KM from 132 KV Zaheerabad SS (1.5KM DCOH line over now proposed 12.5Mtrs spun poles along the road, 8.5KM SCOH line over 11Mtrs PSCC poles near forest area and 2.0KM SCOH line over 12.5Mtrs Spun poles along the road) up to 33/11KV SS Mannapur.
- Erection of 12.5Mtrs Spun poles - 70No's
- Erection of 11Mtrs PSCC poles as strut poles - 18No's
- Formation of cut points - 27No's
- Providing of 33KV stay sets - 144No's
- Erection of 11Mtrs PSCC poles - 172No's
- Erection of 9.1Mtrs PSCC poles as struts - 40No's
- Erection of 33KV line AB Switches over now proposed DP structures - 2No's.
- Erection of 1 No. 33KV AB Switch for Bus couplers at 33/11KV Mannapur SS and 2No's 33KV AB switches in Existing bay extension.

Necessity & Justification:

The existing 33KV Mannapur Feeder which is emanating from 132/33KV Zaheerabad SS is over loaded with 310A in summer season, the length of the line is 25 KM feeding to 4No's 33/11KV Sub stations i.e., 1) 33/11KV SS Mannapur 2) 33/11KV SS Mogdumpally 3) 33/11KV SS Govindapur 4) 33/11KV SS Parvatapur. These substations feeds to 22no's Villages with 11000 Consumers and 2No's Solar grid of 10MW and there is no alternate source for this 33KV Mannapur SS. The existing 33KV line is passing through middle of the forest due to lengthy 33 KV feeder, the low voltage problem is prevailing and during abnormal conditions, it is very inconvenient to rectify the breakdowns within stipulated time. If any breakdown occurs in night times and emergency conditions it is very difficult to rectify the problem to restore the power supply to the consumers.

Hence, the Bifurcation of 33KV Mannapur feeder with new 33KV line from 132KV SS Zaheerabad to 33/11KV SS Mannapur with 12.3KM length estimate is proposed to minimize the breakdowns in abnormal conditions and provide the quality of power supply to the consumers and consequently revenue will be raised.

Hence, this estimate is prepared and submitted for sanction.



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2530-90-06-01-01-001

Division : SE/OP/SANGAREDDY	Section : AE CONST. SANGAREDDY
Project Type : T&D Improvements to original works	Cost Center : 190001106
Estimate No. : T-2530-90-06-01-01-001	Estimate Description : Bifurcation of 33KV Mannapur feeder eman
Network No. : 510000330136	Estimate Created Date : 19.11.2025
Reservation No. : 8002878138	Plant : 1050
User Status : APRD NBGD	System Status : CRTD AVAC
Estimate Approved date : 15.12.2025	Estimate Sanctioned By : CGM_OPN

Total Estimate Cost (Gross):		16854457.68
Less Credits :		0.00
Estimate Cost (Net) :		16854457.68
SL.No.	Proposals involves	Total in Rs.
1	10 - 33KV BI-FURCATION OF LINE	12449897.75
2	20 - 33kv line Servicess	4404559.9338



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2530-90-06-01-01-001

Activity No : 10

Activity Description : 33KV BI-FURCATION OF LINE

S.No	Materials Code	Materials Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	PLS00013	PSCC Poles 11 Mts 365 Kgs	Stock item	190	EA	6,376.14	1,211,466.60
2	PLS00004	PSCC Poles 9.1 Mts 280Kgs	Stock item	40	EA	3,964.10	158,564.00
3	FBR30004	33KV "V"Cross Arms without Clamps	Stock item	152	EA	1,661.80	252,593.60
4	FBR30013	33KV TOP FITTING	Stock item	152	EA	399.89	60,783.28
5	MST00003	MS Angle 65x65x6	Stock item	2,400.000	KG	66.55	159,720.00
6	MST00012	MS Channel 100x50 mm	Stock item	4,470.000	KG	65.73	293,813.10
7	MST00015	MS Flat 75x8	Stock item	208.000	KG	66.55	13,842.40
8	CDR00004	AAA Conductor 100 Sq. mm	Stock item	36,720.000	M	102.68	3,770,409.60
9	INS30007	33KV Polymer Insulators (B&S)	Stock item	180	EA	517.02	93,063.60
10	HWR00004	33KV Metal parts(B&S)	Stock item	180	SET	261.06	46,990.80
11	INS30008	33KV Polymer Pin Insulators With GI Pins	Stock item	702	EA	539.13	378,469.26
12	WRS00005	G.I. Wire 4mm (No.8)	Stock item	700.000	KG	78.18	54,726.00
13	WRS00006	G.I.Stay Wire 7/3.15mm (10SWG)	Stock item	1,440.000	KG	88.79	127,857.60
14	FBR30009	33KV MS Stay Sets without BasePlate	Stock item	144	SET	979.91	141,107.04
15	INS10005	11KV Guy Insulators (HT)	Stock item	292	EA	61.60	17,987.20
16	PLS00015	PSCC Spun Poles 12.5 Mts	Stock item	70	EA	19,000.36	1,330,025.20
17	FBR30031	33KV back clamps (11M Poles)	Stock item	152	EA	224.02	34,051.04
18	MST00015	MS Flat 75x8	Stock item	504.000	KG	66.55	33,541.20
19	MST00015	MS Flat 75x8	Stock item	345.000	KG	66.55	22,959.75
20	CBX30006	33KV Tree Retardant XLPE UG Cb 3x400Sqmm	Stock item	600.000	M	3,547.53	2,128,518.00
21	MST00032	RS Joist 175x85mm	Stock item	1,000.000	KG	75.27	75,270.00
22	SCB10114	33KV 3X400 Heat Shble out/d end ter kit	Stock item	4	EA	5,342.09	21,368.36
23	ABS30004	33KV 800A D/B AB SWITCH WITH INSULATORS	Stock item	5	EA	61,108.57	305,542.85
Material Cost							10,732,670.48
3 % S & H Charges :							321980.11
3 % Contingencies on materials:							321980.11
10 % Estt. & General Charges :							1073267.05
Total :							12449897.75



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2530-90-06-01-01-001

Activity No : 20

Activity Description : 33kv line Services

S.No	Services Code	Services Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR22092	survey line&cabl inc peg mark&tree clear	—	12.300	KM	765.00	9,409.50
2	SWR10108	EXCAV. OF PIT 0.75 M x 0.9 M x 1.95 M	—	130	EA	720.00	93,600.00
3	SWR11040	Ex of Hard pit w/o blast 0.75X0.9X1.95M	—	60	EA	883.58	53,014.80
4	SWR10978	Errection of 11 M long PSCC pole	—	190	EA	4,165.28	791,403.20
5	SWR11083	Erec of 9.1 Mts PSCC poles for stuts	—	40	EA	2,400.00	96,000.00
6	SWR10981	Horizontal Cut point for 33 KV line	—	27	EA	1,759.50	47,506.50
7	SWR10356	Mass concreting of supports incl. cement	—	117.580	M3	6,579.00	773,558.82
8	SWR10356	Mass concreting of supports incl. cement	—	51.200	M3	6,579.00	336,844.80
9	SWR10366	Stringing 100sqmm 33/11kv Line 3 Cond SC	—	10.500	KM	12,600.06	132,300.63
10	SMR11488	S-GI Bolts & Nuts,Washers etc.,	—	600.000	KG	117.50	70,500.00
11	SWR11180	SubTrnsprt 11M PSCC Pole incl. L&UL<10KM	—	190	EA	431.97	82,074.30
12	SWR20308	SubTrnsprt 9M PSCC Pole incl. L&UL<10KM	—	40	EA	407.29	16,291.60
13	SWR10191	LOADING of Conductor drums	—	10	EA	202.00	2,020.00
14	SWR10509	UNLOADING of Conductor drums	—	10	EA	100.00	1,000.00
15	SWR11863	Transport of Cond Drum,VCBs >30 & <50Km	—	5	EA	4,372.74	21,863.70
16	SWR10134	TRANSPORT OF STEEL 30 TO 50KM	—	8.900	TO	587.52	5,228.93
17	SWR10206	LOADING of MS Channel,Angles,Flats&Rods	—	8.900	TO	221.00	1,966.90
18	SWR10524	UNLOADING of MS Channel,Angles,Flats&Rod	—	8.900	TO	185.00	1,646.50
19	SWR10211	LOADING of 33 KV Pin insulators	—	70	CRT	3.00	210.00
20	SWR10529	UNLOADING of 33 KV Pin insulators	—	70	CRT	3.00	210.00
21	SWR12416	LOADING of 33 & 11 KV Disc insulators	—	20	CRT	2.00	40.00
22	SWR10631	UNLOADING of 33 & 11 KV Disc insulator	—	20	CRT	2.00	40.00
23	SWR10618	LOADING of 33KV Metal parts-bag of 25no	—	20	BAG	65.00	1,300.00
24	SWR10632	UNLOADING of 33 KV Metal	—	20	BAG	65.00	1,300.00



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		parts-bagof 25					
25	SWR10322	Fab Stay clamps with 75x8 mm MM Flat	—	144	EA	42.84	6,168.96
26	SWR10378	Numbering of poles incl. cost of paint	—	300	EA	32.00	9,600.00
27	SWR10354	Assembly and erection of Stay set 33kv	—	144	SET	684.53	98,572.32
28	SWR21190	Excavate-StayPit .45x.45x1.34mSoil ex Hr	—	144	EA	520.00	74,880.00
29	SWR10109	EXCAVATION OF PIT(3.0" x 3.0" x 7.6")	—	70	EA	842.78	58,994.60
30	SWR10704	Stringing 100sqmm 33/11kv Line 6 Cond DC	—	1.500	KM	24,606.13	36,909.20
31	SWR10319	Fab Back clamps with 75 x 8 mm MS Flat	—	260	EA	31.62	8,221.20
32	SWR10350	Erection of Spun pole 12.5Mt	—	70	EA	4,115.70	288,099.00
33	SWR10294	Cutting Charges for MS chanl 100x50mm	—	130	EA	10.00	1,300.00
34	SWR10296	Cutting Charges for MS angle all sizes	—	130	EA	7.00	910.00
35	SWR11980	Lay-DR 33KV 3x400sqmm UG Cb CC/BT Compsr	—	250.000	M	1,388.84	347,210.00
36	SWR12004	Raise-DR 33KV 3x400sqmm UG Cb on support	—	50.000	M	323.85	16,192.50
37	SWR10387	OD/ldoor end termination 33kv 3x400 xlpe	—	4	EA	2,764.76	11,059.04
38	SMR11483	S-CI Pipe earthing 80mm dia 2.75m long	—	12	EA	2,789.00	33,468.00
39	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	2	DR	1,024.00	2,048.00
40	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	2	DR	1,024.00	2,048.00
41	SWR10642	Fabricate&Paint- 175x85/150x75mm RS Joist	—	2	EA	512.55	1,025.10
42	SWR10640	Painting of RS Joist(1C RO, 2C Al.Paint)	—	2	EA	1,132.00	2,264.00
43	SWR10357	ERECT. OF LINES-Providing of earthing	—	12	EA	1,234.20	14,810.40
44	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	12	EA	386.00	4,632.00
45	SWR10204	LOADING of R.S. Joists 175 x 85 mm	—	2	EA	76.00	152.00
46	SWR10522	UNLOADING of R.S. Joists 175 x 85 mm	—	2	EA	50.00	100.00
47	SWR11890	Coping & Muffing-Iron Pole	—	0.064	M3	3,892.97	249.15
48	SWR11266	Erection of 9/10/11Meter Box pole	—	2	EA	2,643.83	5,287.66
49	SWR10392	Erection of 33kv ABSwitch incl earthing	—	5	EA	4,500.00	22,500.00
					EA		



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50	SWR10239	LOADING of 33 KV AB SWCH Con 400/800 A	—	5		126.00	630.00
51	SWR10557	UNLOADING of 33 KV AB SWCH Con 400/800 A	—	5	EA	79.00	395.00
52	SMR11485	S-Earthing GI flat 25x3 mm incl material	—	120.000	KG	105.00	12,600.00
53	SWR11185	SubTrnsprt any Spun Pole incl. L&UL<10KM	—	70	EA	771.38	53,996.60
54	SWR10107	EXCAVATION OF PIT (2.6" x 2.6" x 6.0")	—	40	EA	700.00	28,000.00
55	SWR10988	Lay-2nd Cable in Excavated Trench	—	250.000	M	204.10	51,025.00
Service Cost							3,732,677.91
GST 18%							671,882.02
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							4404559.93

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THE ASSISTANT ENGINEER//AE CONST. SANGAREDDY

THE ASSISTANT DIVISIONAL ENGINEER/CONSTRUCTION/SANGAREDDY CONSTRUCTION SUB
DIVISIO

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THE SUPERINTENDING ENGINEER/OPERATION/SANGAREDDY CIRCLE

THE CHIEF ENGINEER/OPERATION/MEDCHAL ZONE