



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

D.No :SPOO.MS.NO.893 DTD:05.05.2026

Bifurcation of 33KV AFA & Bonthapally feeders emanating from 132/33KV Gummadidala EHT SS.

Estimate for bifurcation of 33KV AFA & Bonthapally feeders emanating from 132/33KV Gummadidala EHT SS by erection of 5.523KM new 33KV feeder from 132/33KV Gummadidala EHT SS which involves laying of 2.62KM of 33KV 3X400Sq.mm XLPE UG cable (Double Run) and stringing of 2.903KM 33KV SCOH line with 100sq.mm AAA conductor in Bonthapally Section of Gummadidala Sub-division of Patancheru Division of Sangareddy Circle under T&D Improvements to original works (Summer Action Plan 2025-26).

REPORT TO ACCOMPANY THE ESTIMATE

General:- The estimate proposal for bifurcation of 33KV AFA & Bonthapally feeders emanating from 132/33KV Gummadidala EHT SS by erection of 5.523KM new 33KV feeder from 132/33KV Gummadidala EHT SS which involves laying of 2.62KM of 33KV 3X400Sq.mm XLPE UG cable (Double Run) and stringing of 2.903KM 33KV SCOH line with 100sq.mm AAA conductor in Bonthapally Section of Gummadidala Sub-division of Patancheru Division of Sangareddy Circle under T&D Improvements to original works (Summer Action Plan 2025-26).

Main Features:-

The proposal envisages the following;

- Laying & raising of 33KV 3X400sq.mm UG cable Double Run for a distance of 2620Mtrs and 150Mtrs respectively
- Stringing of 33KV SCOH line with 100sq.mm AAA conductor for a distance of 2.903KM
- Erection of 15Mtrs PSCC spun poles-51No's
- Erection of 11Mtrs PSCC poles-16No's
- Erection of 9.1Mtrs PSCC poles as struts-36No's
- Erection of 33KV 800A D/B AB Switch with insulators-16No's
- Erection of 33KV lightning arrestors line type-1Set
- Supply & erection of M+9 towers-6No's.

Necessity & Justification:

The Estimation is proposed for erection of New 33KV feeder from 132/33KV Gummadidala EHT Sub-station by diverting/bifurcation of loads from existing 33KV AFA and Bonthapally feeders which are emanating from 132/33KV Gummadidala EHT Sub-station as the existing both 33KV AFA and 33KV Bonthapally feeders have crossed 300A. The peak loads on 33KV AFA feeder is 330A on 23.01.2026 at 11:00Hrs and 33KV Bonthapally feeder is 315A on 24.04.2025 at 12:00Hrs.

It is very essential to bifurcate the loads from both feeders by erection of New 33KV feeder to maintain N-1 Redundancy on 33KV feeders as per the instructions of Honorable CMD/TGSPDCL.

Further, during the bifurcation, it is also proposed for interlinking with other 33KV feeders i.e., 33KV dundigal and 33KV Gummadidala feeders by erection of the 14no's 33KV line AB switches over the different feeders to maintain uninterrupted and reliable supply to the consumers during the breakdowns and maintenance of 33KV lines.

Note: 33KV 3X400 sq.mm UG Cable is proposed for a length of 2.62KM due to row issues and narrow roads in Gummadidala village.

Hence, the estimate has been prepared and submitted for sanction.



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Estimate Number : T-2530-90-02-14-01-001

Division	: DE OP PATANCHERU	Section	: AE OP BONTHAPALLY
Project Type	: T&D Improvements to original works	Cost Center	: 190214101
Estimate No.	: T-2530-90-02-14-01-001	Estimate Description	: Bifurcation of 33KV AFA & Bonthapally fe
Network No.	: 510000328430	Estimate Created Date	: 14.11.2025
Reservation No.	: 8002874271	Plant	: 1050
User Status	: APRD NBGD	System Status	: CRTD AVAC NTUP
Estimate Approved date	: 05.05.2026	Estimate Sanctioned By	: CGM_OPN

Total Estimate Cost (Gross):		40647384.65
Less Credits :		0.00
Estimate Cost (Net) :		40647384.65
SL.No.	Proposals involves	Total in Rs.
1	10 - Materials	40647384.649



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Estimate Number : T-2530-90-02-14-01-001

Activity No : 10

Activity Description : Materials

S.No	Materials Code	Materials Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	CDR00004	AAA Conductor 100 Sq. mm	Stock item	9,000.000	M	127.72	1,149,480.00
2	MST00012	MS Channel 100x50 mm	Stock item	9,120.000	KG	64.02	583,862.40
3	INS30007	33KV Polymer Insulators (B&S)	Stock item	123	EA	517.09	63,602.07
4	HWR00004	33KV Metal parts(B&S)	Stock item	123	SET	261.08	32,112.84
5	PLS00013	PSCC Poles 11 Mts 365 Kgs	Stock item	16	EA	6,765.00	108,240.00
6	ABS30004	33KV 800A D/B AB SWITCH WITH INSULATORS	Stock item	16	EA	61,108.55	977,736.80
7	PLS00004	PSCC Poles 9.1 Mts 280Kgs	Stock item	36	EA	3,952.09	142,275.24
8	SCB10114	33KV 3X400 Heat Shble out/d end ter kit	Stock item	48	EA	5,367.74	257,651.52
9	CDR00003	AAA Conductor 55 Sq. mm	Stock item	500.000	M	77.48	38,740.00
10	CBX30006	33KV Tree Retardant XLPE UG Cb 3x400Sqmm	Stock item	5,540.000	M	3,803.45	21,071,113.00
11	MST00015	MS Flat 75x8	Stock item	1,970.000	KG	61.32	120,800.40
12	MST00003	MS Angle 65x65x6	Stock item	1,812.000	KG	64.55	116,964.60
13	PLS00016	PSCC Spun Poles 15Mtrs 500Kg (Cement)	Stock item	51	EA	50,000.00	2,550,000.00
14	MST00013	MS Channel 75x40 mm	Stock item	755.000	KG	64.02	48,335.10
15	INS30001	33KV Pin Insulators	Stock item	231	EA	330.18	76,271.58
16	HWR00003	33KV GI Pins	Stock item	231	EA	164.48	37,994.88
17	INS10009	11KV Polymer Pin Insulators with GI pins	Stock item	111	EA	207.25	23,004.75
18	MST00002	MS Angle 50x50x6	Stock item	370.000	KG	65.14	24,101.80
19	MST00014	MS Flat 50x6 mm	Stock item	2,455.000	KG	61.04	149,853.20
20	SCB10113	33KV 3X400 Heat Shble Str thr joint kit	Stock item	20	EA	29,900.00	598,000.00
21	LAS00003	33KV Lightning Arrestors Line Type	Stock item	3	EA	2,500.01	7,500.03

Material Cost 28,177,640.21

S.No	Services Code	Services Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR10366	Stringing 100sqmm 33/11kv Line 3 Cond SC	-	2.903	KM	13,860.07	40,235.78
2	SWR10978	Errection of 11 M long PSCC pole	-	16	EA	4,165.28	66,644.48
3	SWR11040	Ex of Hard pit w/o blast 0.75X0.9X1.95M	-	16	EA	883.58	14,137.28
4	SWR10356	Mass concreting of supports incl. cement	-	164.940	M3	6,579.00	1,085,140.26
5	SMR11485	S-Earthing GI flat 25x3 mm incl material	-	1,050.000	KG	105.00	110,250.00
6	SWR11180	SubTrnsprt 11M PSCC Pole incl. L&UL<10KM	-	16	EA	431.97	6,911.52
7	SMR11488	S-GI Bolts & Nuts,Washers etc.,	-	75.000	KG	117.50	8,812.50



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8	SWR12521	Formation-Cut Point 33KV Single Ckt Line	-	20	EA	1,759.50	35,190.00
9	SWR10239	LOADING of 33 KV AB SWCH Con 400/800 A	-	16	EA	126.00	2,016.00
10	SWR10557	UNLOADING of 33 KV AB SWCH Con 400/800 A	-	16	EA	79.00	1,264.00
11	SMR11482	S-CI Pipe earthing 100mm dia 2.75m long	-	20	EA	3,486.00	69,720.00
12	SWR10357	ERECT. OF LINES-Providing of earthing	-	55	EA	1,234.20	67,881.00
13	SWR12125	Run-GI Earth Flat 25x3mm from metallic p	-	85.000	M	14.03	1,192.55
14	SWR11002	Laying of 33KV UG 2Run in Hard rock.	-	150	RMT	1,430.00	214,500.00
15	SWR10392	Erection of 33kv ABSwitch incl earthing	-	16	EA	4,770.00	76,320.00
16	SWR10387	OD/Idoor end termination 33kv 3x400 xlpe	-	48	EA	2,764.76	132,708.48
17	SWR10106	EXCAVATION OF PIT 0.6 M x 0.9 M x 1.5 M	-	36	EA	600.00	21,600.00
18	SWR20308	SubTrnsprt 9M PSCC Pole incl. L&UL<10KM	-	36	EA	407.29	14,662.44
19	SWR11972	Lay-DR 33KV 3x400sqmm UG Cb HG/BC/CC/BT	-	2,470.000	M	751.16	1,855,365.20
20	SWR12004	Raise-DR 33KV 3x400sqmm UG Cb on support	-	150.000	M	323.85	48,577.50
21	SWR11083	Erec of 9.1 Mts PSCC poles for stuts	-	36	EA	2,400.00	86,400.00
22	SWR25139	Excavate-Pit 1Mx1Mx2.51M for Spun Pole	-	51	EA	862.00	43,962.00
23	SWR25138	Erect-Spun Pole 15Mtr incl. Earthing	-	51	EA	5,600.00	285,600.00
24	SWR11274	Erect-33KV DP Structure with 11M Poles	-	8	SET	6,204.00	49,632.00
25	SWR10396	Erect of 33kv LA stn type incl earthing	-	1	SET	880.00	880.00
26	SMR11483	S-CI Pipe earthing 80mm dia 2.75m long	-	35	EA	2,789.00	97,615.00
27	SWR10988	Lay-2nd Cable in Excavated Trench	-	2,470.000	M	204.10	504,127.00
28	SWR10382	Straight through joint 33kv 3x400 xlpe	-	20	EA	5,700.78	114,015.60
29	SWR11181	Trans 11/12.5/12.9M Spun pole upto 50KM	-	51	EA	858.00	43,758.00
30	SWR12085	Excvt Pit ext HardBlst 1.2Mx1.2Mx3.3M	-	6	EA	1,997.93	11,987.58
31	SMR11683	S-M+3 Tower GALV	-	6	EA	140,674.30	844,045.80
32	SMR11684	S-Mat. for Extn of M+3 Tower by 3M GALV	-	12	EA	28,520.64	342,247.68
33	SWR11850	Erect- M+3 Tower GALV	-	6	EA	64,576.00	387,456.00
					EA		



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34	SWR11851	Erect-Extn of 3M for M+3 Tower GALV	-	12		5,168.95	62,027.40
Service Cost							6,746,883.05
GST 18%							1,214,438.95
3 % S & H Charges :							845329.21
3 % Contingencies on materials:							845329.21
10 % Estt. & General Charges :							2817764.02
Total :							40647384.65

Copy to:

THE ASSISTANT ENGINEER/OPR/AE OP BONTHAPALLY

THE ASSISTANT DIVISIONAL ENGINEER/OPERATION/GUMMADIDALA SUB-DIVISION

THE DIVISIONAL ENGINEER/OPERATION/PATANCHERU DIVISION

THE SUPERINTENDING ENGINEER/OPERATION/SANGAREDDY CIRCLE

THE CHIEF ENGINEER/OPERATION/MEDCHAL ZONE