



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

D.No :SP.O.O.Ms.No.332, Dt:19-02-2026

Bif. of 11KV Doolapally Fdr - Doolapally SS

Revised estimate for bifurcation of the existing 11KV Doolapally feeder emanating from 33/11 KV Doolapally SS by erection of new 11KV feeder from the same SS which involves laying of 0.99KM 11KV 3X300sq.mm XLPE UG cable (Single Run) along with bay extension & erection of 1No. 11KV feeder VCB at 33/11 KV Doolapally SS in Kompally Section of Quthbullapur

Sub-ivision in Medchal Division and the work executed by the

Construction Division of Medchal Circle under T&D Improvements to original works (Summer Action Plan-2026).

Report to accompany the estimate:

General: The Revised estimate for bifurcation of the existing 11KV Doolapally feeder emanating from 33/11 KV Doolapally SS by erection of new 11KV feeder from the same SS which involves laying of 0.99KM 11KV 3X300sq.mm XLPE UG cable (Single Run) along with bay extension & erection of 1No. 11KV feeder VCB at 33/11 KV Doolapally SS in Kompally Section of Quthbullapur

Sub-ivision in Medchal Division and the work executed by the

Construction Division of Medchal Circle under T&D Improvements to original works (Summer Action Plan-2026).

Main Features:-

The proposal envisages the following:

I) 11KV bay extension at 33/11KV Doolapally SS:

- a) Erection of 9.1Mtrs PSCC Poles - 4 No's
- b) Erection of RS Joist 175X85mm bit poles for cable raising - 2No's
- c) Erection of 11KV 220V feeder VCB with CTs on now proposed plinth -1No.
- d) Erection of 11KV 400A Conventional D/B AB Switch with insulators -3No's
- e) Laying and raising of 11KV 3X300Sq.mm XLPE UG Cable (single Run) for a distance of 70Mtrs and 30Mtrs respectively
- f) Erection of 11KV lightning arrestors line type - 1Set

II) 11KV line work:

- a) Laying and raising of 11KV 3X300Sq.mm XLPE UG Cable (Single Run) for a distance of 990Mtrs and 30Mtrs respectively
- b) Erection of 11KV 400A Conventional D/B AB Switches - 2No's i.e. , in existing 11KV line on now proposed on each 9.1Mtr PSCC pole and 100sq.mm AAA conductor at Line AB switch jumpering and MS flat/MS Angle for AB Switch erection.
- c) Erection of 9.1Mtrs PSCC Poles - 2No's

III) Civil Works:

Construction of retaining wall and filling of gravel and chips.

Justification:

The existing 11KV Doolapally feeder has been over loaded i.e., 116A on 01.04.2025 and 106A on 01.11.2025 and the proposal forwarded to Construction wing from Divisional Engineer/Operation/Medchal for preparation of 11KV feeder bifurcation. Hence it is proposed for bifurcation of 11KV Doolapally feeder emanating from 33/11 KV Doolapally SS by erection of new 11KV feeder from the same SS.

Hence, this estimate is prepared and submitted for sanction.

Justification for revision of estimate

On 28.01.2026, the Chief Engineer/OP/Medchal Zone conducted a VC with the Construction Wing and instructed to revise the Summer Action Plan estimate for 11KV feeder bifurcation. The revision involves using 11KV 3X300Sq.mm Single Run XLPE UG cable with loop-in loop-out concept, instead of the earlier proposal of 11KV 3X185Sq.mm Double Run XLPE UG cable. Accordingly, the estimate has been revised and submitted for sanction.

Revised Qty:-

11kv 300Sqmm UG Cable(Single Run)-1.02km



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Division : SE/OP/GHYD WEST	Section : AE/CON-II/KUKATPALY
Project Type : T&D Improvements to original works	Cost Center : 107001206
Estimate No. : T-2532-07-05-01-02-004	Estimate Description : Bif. of 11KV Doolapally Fdr - Doolapally
Network No. : 510000329989	Estimate Created Date : 18.11.2025
Reservation No. : 8002877692	Plant : 1060
User Status : APRD NBGD	System Status : CRTD AVAC
Estimate Approved date : 19.02.2026	Estimate Sanctioned By : CGM_OPN

Total Estimate Cost (Gross):		8169896.33
Less Credits :		0.00
Estimate Cost (Net) :		8169896.33
SL.No.	Proposals involves	Total in Rs.
1	20 - 11KV Bay and VCB	1559264.0252
2	40 - 11KV UG cable	3622071.2968
3	60 - road cutting charges	2657655
4	80 - CIVIL	330905.9958



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Activity No : 20

Activity Description : 11KV Bay and VCB

S.No	Materials Code	Materials Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	ABS10009	11KV 400A Conv DB AB/s with insulators	Stock item	3	EA	27,852.16	83,556.48
2	LAS00001	11KV Lightning Arrestors Line Type	Stock item	3	EA	619.50	1,858.50
3	CBP00006	LT PVC Cu Contr Cable 10 Core 2.5 Sq. mm	Stock item	200.000	M	341.56	68,312.00
4	CBP00002	LT PVC Cu Contr Cable 4 Core 2.5 Sq. mm	Stock item	400.000	M	149.11	59,644.00
5	BRK10019	11KV 220V Fed VCB,CTs,CR Pnl& IED Relays	Stock item	1	EA	488,847.72	488,847.72
6	MST00014	MS Flat 50x6 mm	Stock item	300.000	KG	66.67	20,001.00
7	MST00012	MS Channel 100x50 mm	Stock item	1,000.000	KG	65.73	65,730.00
8	INS30007	33KV Polymer Insulators (B&S)	Stock item	6	EA	517.10	3,102.60
9	INS30002	33KV Solid core Insulators	Stock item	3	EA	1,112.10	3,336.30
10	HWR00004	33KV Metal parts(B&S)	Stock item	6	SET	261.08	1,566.48
11	CDR00010	ACSR Conductor Panther	Stock item	60.000	M	269.62	16,177.20
12	PLS00004	PSCC Poles 9.1 Mts 280Kgs	Stock item	4	EA	3,952.09	15,808.36
13	MST00015	MS Flat 75x8	Stock item	100.000	KG	66.55	6,655.00
14	CBX10009	11KV Tree Retardant XLPE UG Cb 3x300Sqmm	Stock item	100.000	M	1,699.09	169,909.00
15	MST00032	RS Joist 175x85mm	Stock item	250.000	KG	71.96	17,990.00
16	SCB10102	11KV 3X300 Heat Shble out/d end ter kit	Stock item	2	EA	2,457.06	4,914.12
Material Cost							1,027,408.76
S.No	Services Code	Services Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR10461	Erection of 11kv VCB	—	1	EA	12,000.00	12,000.00
2	SMR11482	S-CI Pipe earthing 100mm dia 2.75m long	—	4	EA	3,486.00	13,944.00
3	SWR10356	Mass concreting of supports incl. cement	—	3.240	M3	6,579.00	21,315.96
4	SWR11879	Lay-4C/10C 2.5Sqmm Control Cable	—	600.000	M	27.00	16,200.00
5	SMR11488	S-GI Bolts & Nuts,Washers etc.,	—	50.000	KG	117.50	5,875.00
6	SWR10942	Testing of Outdoor SS switchgear	—	1	EA	1,825.00	1,825.00
7	SWR11039	Exca Hard pit w/o blast 0.76X0.76X1.83M	—	4	EA	928.00	3,712.00
8	SWR10238	LOADING of 11 KV AB SWCH Con 200/400 A	—	3	EA	80.00	240.00
9	SMR40025	Sup PT clamps for single zebra / Panther	—	6	EA	368.00	2,208.00
10	SMR40070	Supply of Danger boards with clamps	—	1	EA	116.00	116.00
					EA		



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11	SWR10917	Labour for Fixing of all types of clamps	—	15		65.00	975.00
12	SWR10393	Erection of 11kv ABSwitch incl earthing	—	3	EA	3,200.00	9,600.00
13	SWR11861	Transport of Cond Drum,VCBs >10 & <20Km	—	1	EA	3,299.70	3,299.70
14	SWR10199	LOADING of 11 KV VCBs&Panel boards	—	1	EA	1,024.00	1,024.00
15	SWR10517	UNLOADING of 11 KV VCBs&Panel boards	—	1	EA	1,044.48	1,044.48
16	SWR10556	UNLOADING of 11 KV AB SWCH Con 200/400 A	—	3	EA	80.00	240.00
17	SWR20863	R.S. joist box poles erection complete	—	2	EA	1,044.23	2,088.46
18	SMR11482	S-CI Pipe earthing 100mm dia 2.75m long	—	4	EA	3,486.00	13,944.00
19	SWR10204	LOADING of R.S. Joists 175 x 85 mm	—	1	EA	76.00	76.00
20	SWR10522	UNLOADING of R.S. Joists 175 x 85 mm	—	1	EA	50.00	50.00
21	SWR10206	LOADING of MS Channel,Angles,Flats&Rods	—	1.400	TO	221.00	309.40
22	SWR10524	UNLOADING of MS Channel,Angles,Flats&Rod	—	1.400	TO	185.00	259.00
23	SWR10265	LOADING of 11 KV, 10 KA LAs Line type	—	3	EA	32.00	96.00
24	SWR10583	UNLOADING of 11 KV, 10 KA LAs Line type	—	3	EA	32.00	96.00
25	SWR11701	Load-PVC Control Cable 10C	—	600.000	M	1.00	600.00
26	SWR11712	UnLoad-PVC Control Cable 10C	—	600.000	M	1.02	612.00
27	SWR10298	Cutting Charges for RS joist 175x85mm	—	4	EA	47.00	188.00
28	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	4	EA	386.00	1,544.00
29	SWR10868	Fabrication of struc.with power drilling	—	1.000	TO	6,852.00	6,852.00
30	SWR21241	Hoisting post ins&hrd wr 1panther 11kv	—	1	EA	507.00	507.00
31	SMR11915	S-Tension HW 3Bolt 1Zebra/Pnthr 150mm	—	6	SET	2,055.00	12,330.00
32	SWR11890	Coping & Muffing-Iron Pole	—	0.062	M3	3,893.06	241.37
33	SMR40011	Sup T clamp LM6 Al alloy of 12 mm, 800 A	—	9	EA	299.00	2,691.00
34	SMR22473	Supply of I-Bolts	—	6	EA	294.00	1,764.00
35	SMR40009	Sup Material for 1st coat Al. Painting.	—	1.650	TO	2,181.00	3,598.65
36	SWR10877	Labour for 1st coat Al. Painting.	—	1.650	TO	851.00	1,404.15
37	SMR40010	Sup Material for 2nd coat Al. Painting.	—	1.650	TO	1,293.00	2,133.45



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38	SWR10879	Labour for 2nd coat Al. Painting.	—	1.650	TO	482.00	795.30
39	SWR10920	Laying of earth mat,excavation 75x 8mm	—	21.270	RMT	65.00	1,382.55
40	SWR10919	Earthing for raisers of SS Flat 50x6 mm.	—	125	RMT	41.00	5,125.00
41	SWR12510	L-Cable Termination to Switchgear	—	100	EA	27.00	2,700.00
42	SWR12331	AB Switch Coil Earthing GI No. 8 Wire	—	3	EA	146.63	439.89
43	SWR10881	Painting AB switch OP rods with PO red	—	3	EA	142.00	426.00
44	SWR10743	Painting of supports to a height of 0.3M	—	3	EA	686.00	2,058.00
45	SMR11485	S-Earthing GI flat 25x3 mm incl material	—	10.000	KG	105.00	1,050.00
46	SMR11435	S-Plain Switches	—	2	EA	30.00	60.00
47	SWR11435	F-Plain switches	—	2	EA	13.00	26.00
48	SMR11524	S-Indication LED Lamps(White,Blue,Amber)	—	4	EA	130.00	520.00
49	SMR11914	S-Self lluminate 220V DC 22.5mm Push Btn	—	2	EA	300.00	600.00
50	SWR11380	Fix-Hylam sheet-Cutting of Panel	—	1	EA	2,000.00	2,000.00
51	SWR10732	Con of Plinth for 11kv VCB 1.8x1.8x0.75m	—	1	EA	27,629.00	27,629.00
52	SWR20768	Excavate-Pit in Soil except Hrd Rck	—	3.888	M3	345.00	1,341.36
53	SWR10343	ERECTION OF LINES-Erection of 9.1M Pole	—	4	EA	2,400.00	9,600.00
54	SWR20308	SubTrnsprt 9M PSCC Pole incl. L&UL<10KM	—	4	EA	407.29	1,629.16
55	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	1	DR	1,024.00	1,024.00
56	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	1	DR	1,024.00	1,024.00
57	SWR11928	Lay-SR 11KV 3x300sqmm UG Cb CC/BT Compsr	—	70.000	M	1,073.94	75,175.80
58	SWR11955	Raise-SR 11KV 3x300sqmm UG Cb on support	—	30.000	M	144.08	4,322.40
59	SMR40080	S-4" BClass GI pipe 3.65mm thck 12.2Kg/M	—	20.000	M	800.00	16,000.00
60	SWR10391	OD/ldoor end termination 11kv 3x300 xlpe	—	2	EA	2,370.63	4,741.26
61	SWR10357	ERECT. OF LINES-Providing of earthing	—	4	EA	1,234.20	4,936.80
62	SWR10398	Erect of 11kvLA line type incl earthing	—	1	SET	505.00	505.00
63	SWR10105	EXCAVATION OF PIT (2.6" x 2.6" x 5.0')	—	2	EA	650.00	1,300.00



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Service Cost	311,415.14
GST 18%	56,054.73
3 % S & H Charges :	30822.26
3 % Contingencies on materials:	30822.26
10 % Estt. & General Charges :	102740.88
Total :	1559264.03



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Activity No : 40

Activity Description : 11KV UG cable

S.No	Materials Code	Materials Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	CDR00004	AAA Conductor 100 Sq. mm	Stock item	75.000	M	106.08	7,956.00
2	INS10003	11KV Polymer Insulators (C&T)	Stock item	12	EA	220.08	2,640.96
3	HWR00002	11KV Metal parts(C&T)	Stock item	12	SET	118.60	1,423.20
4	INS10009	11KV Polymer Pin Insulators with GI pins	Stock item	12	EA	207.26	2,487.12
5	MST00002	MS Angle 50x50x6	Stock item	50.000	KG	68.62	3,431.00
6	MST00014	MS Flat 50x6 mm	Stock item	100.000	KG	66.67	6,667.00
7	MST00012	MS Channel 100x50 mm	Stock item	200.000	KG	65.73	13,146.00
8	MST00015	MS Flat 75x8	Stock item	100.000	KG	66.55	6,655.00
9	ABS10009	11KV 400A Conv DB AB/s with insulators	Stock item	2	EA	27,852.16	55,704.32
10	PLS00004	PSCC Poles 9.1 Mts 280Kgs	Stock item	2	EA	3,952.09	7,904.18
11	CBX10009	11KV Tree Retardant XLPE UG Cb 3x300Sqmm	Stock item	1,020.000	M	1,699.09	1,733,071.80
12	SCB10102	11KV 3X300 Heat Shble out/d end ter kit	Stock item	6	EA	2,457.06	14,742.36
13	SCB10101	11KV 3X300 Heat Shble Str thr joint kit	Stock item	4	EA	5,066.11	20,264.44
Material Cost							1,876,093.38
S.No	Services Code	Services Text	Item Category	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SMR11487	S-MS Bolts & Nuts,Washers etc.,	—	50.000	KG	91.25	4,562.50
2	SWR11862	Transport of Cond Drum,VCBs >20 & <30Km	—	2	EA	3,691.38	7,382.76
3	SWR11230	Load-11/33KV XLPE UG Cable for all sizes	—	4	DR	1,024.00	4,096.00
4	SWR11231	Unload-11/33KV XLPE UG Cable all sizes	—	4	DR	1,024.00	4,096.00
5	SWR10359	ERECT. OF LINES-Providing of RCC collar	—	4	EA	386.00	1,544.00
6	SMR40078	Supply of 150 mm Hume pipe of class NP3	—	100.000	M	303.00	30,300.00
7	SMR40080	S-4" BClass GI pipe 3.65mm thck 12.2Kg/M	—	24.000	M	800.00	19,200.00
8	SWR25089	S&E-Smart RFID marker	—	3	EA	2,745.00	8,235.00
9	SMR40085	S-RCC Cable Joint/Route Marker	—	5	EA	484.00	2,420.00
10	SWR10393	Erection of 11kv ABSwitch incl earthing	—	2	EA	3,200.00	6,400.00
11	SMR11480	S-GI pipe earthing 40mm dia 2m long	—	4	EA	698.00	2,792.00
12	SWR10357	ERECT. OF LINES-Providing of earthing	—	4	EA	1,234.20	4,936.80
13	SWR10343	ERECTION OF LINES-Erection	—	2	EA	2,400.00	4,800.00



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		of 9.1M Pole					
14	SWR10107	EXCAVATION OF PIT (2.6" x 2.6" x 6.0")	—	2	EA	700.00	1,400.00
15	SWR10356	Mass concreting of supports incl. cement	—	1.080	M3	6,579.00	7,105.32
16	SWR10391	OD/Idoor end termination 11kv 3x300 xlpe	—	6	EA	2,370.63	14,223.78
17	SWR10386	Straight through joint 11kv 3x300 xlpe	—	4	EA	3,725.45	14,901.80
18	SMR11483	S-CI Pipe earthing 80mm dia 2.75m long	—	2	EA	2,789.00	5,578.00
19	SWR10357	ERECT. OF LINES-Providing of earthing	—	2	EA	1,234.20	2,468.40
20	SWR11928	Lay-SR 11KV 3x300sqmm UG Cb CC/BT Compsr	—	900.000	M	1,073.94	966,546.00
21	SWR11955	Raise-SR 11KV 3x300sqmm UG Cb on support	—	30.000	M	144.08	4,322.40
22	SWR11937	Lay-SR 11KV 3x300sqmm UG Cb CC/BT RdCrsg	—	90.000	M	1,199.40	107,946.00
Service Cost							1,225,256.76
GST 18%							220,546.22
3 % S & H Charges :							56282.80
3 % Contingencies on materials:							56282.80
10 % Estt. & General Charges :							187609.34
Total :							3622071.30



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Activity No : 60

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	—	990.000	M	2,275.00	2,252,250.00
Service Cost							2,252,250.00
GST 18%							405,405.00
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							2657655.00



SOUTHERN POWER DISTRIBUTION COMPANY OF TG LIMITED

Estimate Number : T-2532-07-05-01-02-004

Activity No : 80

Activity Description : CIVIL

S.No	Services Code	Services Text	Item Catagory	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	SWR34179	Hire-JCB to Level & Clear the Site	—	8	H	2,200.00	17,600.00
2	SWR33015	Excavation in Ordinary Soil	—	15.750	M3	513.00	8,079.75
3	SWR33041	CRS Masonary CM(1:6) 2nd Sort	—	22.700	M3	5,829.00	132,318.30
4	SWR33403	S&F MS Security Fencing Mesh (2"X2")	—	22.400	M2	2,310.00	51,744.00
5	SWR34446	S-3/4" dia 30m PVC Braided Hose Pipe	—	1	EA	1,510.00	1,510.00
6	SMR11594	S-90W LED fixture set	—	1	EA	8,200.00	8,200.00
7	SWR33052	S&Filling with Borrowed Gravel	—	50.000	M3	715.00	35,750.00
8	SWR33057	S&Spreading of 20mm HBG Metal	—	12.360	M3	2,041.00	25,226.76
Service Cost							280,428.81
GST 18%							50,477.19
3 % S & H Charges :							0.00
3 % Contingencies on materials:							0.00
10 % Estt. & General Charges :							0.00
Total :							330906.00

Copy to:

THE ASSISTANT ENGINEER//AE/CON-II/KUKATPALY

THE ASSISTANT DIVISIONAL ENGINEER/CONSTRUCTION/MEDCHAL CONSTRUCTION SUB DIVISION

THE DIVISIONAL ENGINEER/CONSTRUCTION/MEDCHAL CONSTRUCTION DIVISION

THE SUPERINTENDING ENGINEER/OPERATION/MEDCHAL CIRCLE

THE CHIEF ENGINEER/OPERATION/MEDCHAL ZONE