



**TRANSMISSION CORPORATION OF TELANGANA LIMITED**  
**VIDYUT SOUDHA :: HYDERABAD – 500 082. Off: PABX:040-23396000**  
**Website:Transco.telangana.gov.in CIN No:U40102TG2014SGC094248**

Replacement of aged / obsolete equipment & strengthening/improvement works in EHT sub-stations and Transmission lines, SEMs & for carrying out Protection audit and connected equipment/materials under Renovation & Modernization Scheme during the Financial year 2017-18, 2018-19 - Amendment to the Administrative approval - Regarding.

**T.O.O. (CE -Transmission) Ms. No.357**

**Dt.07.05.2019**  
Read the following:

Ref:- T.O.O. CE (Transmission) Ms. No.146,Dt.07.10.2017

**ORDER:**

Administrative approval was accorded vide T.O.O (CE-Transmission) Ms.No.146, Dt.07.10.2017 for the procurement / execution of substations materials & related works, Transmission line materials / related works and Civil works for an Amount of **Rs. 50.11 Crores** required for replacing the aged/obsolete equipments & strengthening/ improvement works in Sub-stations & Transmission lines under Renovation & Modernization Scheme during each Financial year FY:2017-18, F.Y:2018-19 (Total value Rs.100.22 Crores)

- 2) In the above Administrative approval, Sub-station wise budget was allocated for Metal Spreading and associated works for 33 Nos. of various substations for an Amount Rs.952.00 Lakhs during F.Y:2017-18 and that of Rs.1199.00 Lakhs for 48 Nos. of Substations during F.Y:2018-19, as annexed at V (A) & V (B) based on the Chief Engineer / Civil proposal Dt.09.08.2017.
- 3) While preparing the working Estimates for Metal Spreading along with certain associated works for the pre-defined Substations of the T.O.O, value of the Estimates are exceeding for some Substations and for some substations the estimated cost is decreasing. Hence, budget from other resources are to be provided. But, in SAP, it is becoming difficult, in mapping, the 2 types of budgets to a single work in toto.
- 4) In addition to the above, the estimated value of the 132 KV Chandrayanagutta – Imlibun – DC line value also increased to Rs.163.00 Lakhs from Rs.141.00 Lakhs
- 5) In view of the above and for easy processing of the estimates in the SAP, circle wise Budget is proposed to the Annexure V (A) and V(B) of Administrative Approval issued vide T.O.O.( CE-Transmission) Ms.146, Dt.07.10.2017, duly un-altering the total budget of the Administrative approval for an amount of Rs.50.11 Crores, during each F.Y: 2017-18, 2018-19 as detailed below.

Sl. No	Work / Supply related to	Description of Work	Amount Rs. in Lakhs for FY:2017-18	Amount Rs. in Lakhs for FY:2018-19	Annexure No.	
A	<b>Telecom</b>					
	(i)	Procurement of 48V battery sets and Battery Chargers	202.66	-	I (A)	
	(ii)	Procurement, Erection & Commissioning of PLCC and Associated Equipment	100.41	-	I (B)	

Cont..2

Sl. No.	Work / Supply related to	Description of Work	Amount Rs. in Lakhs for FY:2017-18	Amount Rs. in Lakhs for FY:2018-19	Annexure No.	
<b>A</b>	<b>Telecom</b>					
	(i)	Procurement of 48V battery sets and Battery Chargers	202.66	-	I (A)	
	(ii)	Procurement, Erection & Commissioning of PLCC and Associated Equipment	100.41	-	I (B)	
	(iii)	Procurement of Remote Terminal Units and associated equipments.	349.75	-	I (C)	
<b>B</b>	<b>Lines</b>					
	(i)	Procurement of Line material for Strengthening of lines and procurement of Isolators without earth switch for these Line works.	1173.00	2000.00	II (A) (*)	II (B)
<b>C</b>	<b>Substations</b>					
	(i)	Procurement of SS material	437.69	-	III	
	(ii)	Procurement of Testing Equipments	452.00	548.00	Requirement of Testing kits will be furnished to P&MM Wing from time to time.	
	(iii)	Procurement & Installation of Capacitor Banks and associated Equipment	1000.00	0.00	IV	
	(iv)	Shifting of 33KV Equipment & 33KV Feeders from underneath of Bus to outside the Bus and replacement of certain problematic equipment in Sub-Stations	320.00		Based on the field proposals, RMI budget will be allotted from time to time	
	(v)	Earthing Improvement and renovation works in the EHT Substations	230.00			
<b>D</b>	<b>Civil Works</b>					
	(i)	Metal Spreading & water supply arrangements to earth pits and Cable trenches in EHT Substations	0.00	2152.00	V (*)	
<b>E</b>	Labour Component of line works & SS works		745.49	311.00		
	<b>Grand Total</b>		5011.00	5011.00		

(\*) Amended Annexures. Remaining un-altered.

- 6) All other paras of the T.O.O CE (Transmission) M.s No.146, Dt.07.10.2017 remains are un-altered.
- 7) This order is issued with the concurrence of Joint Managing Director (Fin.,Comml, & HRD) vide Regd No. 1883, Dt.02.05.2019.

Encl: Annexure II(A), IV & V.

**(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA LIMITED)**

**D.PRABHAKAR RAO**  
**Chairman & Managing Director**

To

The Chief Engineer/Transmission/TSTRANSCO/VidyutSoudha/Hyderabad

**Copy to:**

The Executive Director (Finance)/TSTRANSCO/VidyutSoudha, Hyderabad.

The Executive Director (Lift Irrigation)/TSTRANSCO/VidyutSoudha, Hyderabad

The FA & CCA (Accounts)/ TSTRANSCO / VidyutSoudha, Hyderabad.

The Chief Engineer/P&MM/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/Telecom/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/Power System/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/Construction/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/Lift Irrigation Schemes/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/400KV/TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/IT /TSTRANSCO/VidyutSoudha/ Hyderabad

The Chief Engineer/ Civil/TSTRANSCO/VidyutSoudha/Hyderabad

The Chief Engineer/Metro Zone, Rural Zone, Warangal Zone & Karimnagar Zone.

All the Superintending Engineers/OMC/TSTRANSCO.

The Superintending Engineer/P&MM /VidyutSoudha/ Hyderabad.

The Superintending Engineer/Civil/TSTRANSCO/VidyutSoudha/Hyderabad

The Superintending Engineer/Civil/Metro, Rural, Warangal & Karimnagar

The Superintending Engineer/Telecom/Metro, Rural, Warangal & Karimnagar/TSTRANSCO/Hyderabad.

The Superintending Engineer/CTI/Erragadda/TSTRANSCO.

All the Divisional Engineers/O&M/TSTRANSCO.

The Divisional Engineer/Lines & Court cases O/o.CE/ Transmission/TSTRANSCO/Vidyut Soudha / Hyderabad

The Executive Engineer/Civil/O&M/ TSTRANSCO/Erragadda/Hyderabad.

The SAO/Budget/ TSTRANSCO/ Vidyut Soudha, Hyderabad

**Current File:CE(Tr)/SE(Tr)/DE(SS)/ADE-1/F.No.1837 RMI17-18 & 18-19/D.No.318/2019, Dt:07.5.2019**

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*Energy saved is energy produced // Electricity save is electricity produced*

Annexure-II (A) to T.O.O. CE (Transmission) Ms. No.357, Dt.07.05.2019

LINE WORK ESTIMATES FOR THE FY: FY:2017-18

Sl. No.	Description	Total Amount (Rs.in Lakhs)
1	MZ-Erection of 2 Nos. Narrow Based 'D' type intermediate towers with base width 1.3Mtr. (Along with extension 1.7Mtr and 5.1Mtr.) between Loc.No.47/24 & 47/26 and dismantling the existing tower at Loc.No.47/25 in 132KV Moulali-Gunrock-Shapurnagar DC feeder	37.10
2	WZ-Erection of 2 Nos. 60 intermediate Narrow based towers between Loc.Nos. 408 to 409 and 403 to 404 of 132KV DC line from Warangal-KTS(i.e. Warangal - Narsampet & 132KV Warangal-Nekkonda Lines) In OMC Circle, Warangal	50.27
3	WZ-Estimate of Diversion of 132KV Bellampally-Sirpur Kagaznagar DC line between location No.17 to 19 (0.638KM) for replacing the damaged towers in Adilabad Dist	25.66
4	RZ-Estimate for replacement of existing Wolf conductor with AAAC Panther conductor from Loc.No.78 to 322 of 132KV Nizamsagar – Minpur - Kowdipally – Narsapur - Gummadidala Line in O&M Division, Yeddumailaram (*)	810.67
5	RZ-Erection of 2Nos S+6 Intermediate Towers and dismantling of existing 1No. H-type Tower and 2Nos DP Structures on 132KV Balangar-Shadnagar Sc line between Loc.No.388 to 390 for improving clearance of National Highway-44 crossing and improving ground clearance to BT road crossing.	34.30
6	MZ- Erection of intermediate tower between Loc.57-58 in 132KV Moulali-Imlibun DC line	19.00
7	MZ- Erection of new GI Towers in place of rusted towers from Loc.38/9 to Loc.38/15 in 132KV Chandrayangutta – Imlibun - Ghanapur DC line. (*)	163.00
8	22 Nos. – 132KV 1200A Isolator without earth switch	23.93
9	4 Nos. – 220KV 1600A Isolator without earth switch	9.05
	<b>TOTAL</b>	<b>1172.98</b>
	<b>Say</b>	<b>1173.00 Lakhs</b>

(\*) Amended Values.

Sd/-  
Chief Engineer/Transmission (I/C)

# List of Capacitor Banks in EHT Substations

## ANNEXURE –IV ( For FY 2017-18)

Sl. No	Name of the Circle	Sl. No.	Name of the Substation	Capacitor Banks feasibility issued in MVAR at 33kV/38kV
1	Metro	1	132/33kV SS Takkallapally	5
2	Sangareddy	1	132/33kV SS Tunkibollaram	10
		2	132/33kV SS Pedashankarampeta	7.2
		3	132/33kV SS Palamakula	10
3	Mahaboobnagar	1	132/33kV SS Chinamaroor	5
		2	132/33kV SS Tirumalaipally	5
		3	132/33kV SS Ieeza	5
4	Nalgonda	1	132/33kV SS Atipamula	5/7.2
		2	132/33kV SS Tungathurthy	10/14.4
5	Khammam	1	132/33kV SS B.Gangaram	5
6	Warangal	1	132/33kV SS Wardhannapet	5/7.2
		2	132/33kV SS Peddanagaram	5/7.2
		3	132/33kV SS Mulugu	5/7.2
		4	132/33kV SS Chityala	5/7.2
		5	220 KV Waddekothapally	14.4
		6	132/33kV SS Raghunathpally	5
		7	132/33kV SS Narmetta	15
7	Karimnagar	1	132/33kV SS Yellareddypet	5/7.2
		2	132/33kV SS Mulkanoor	5/7.2
		3	132/33kV SS Chippapally	5
		4	132/33kV SS Kamalapur	5
8	Nizamabad	1	132/33kV SS Padmajiwadi	5/7.2
		2	132/33kV SS Domakonda	5/7.2
		3	132/33kV SS Bichkonda	5/7.2
		4	132/33KV SS Jakora	5/7.2
		5	132/33KV SS Nandipet	5/7.2
		6	132/33KV SS Dichpally	5/7.2
		7	132/33KV SS Renjal	5/7.2
		8	132/33KV SS Bodhan	5/7.2
		9	132/33KV SS Reddypet	5/7.2
		10	132/33KV SS Biknoor	5/7.2
9	Adilabad	1	220/132 kV Nirmal	10/14.4
		2	132/33kV SS Chennur	5
		3	132/33kV SS Burugupally	15
		4	132/33kV SS Mudhole	5

ABSTRACT				
Sl. No.	Capacitor Bank	Quantity in Nos.	Unit Cost ( Rs.in Lakhs)	Total Amount (Rs. in Lakhs)
1	10/14.4/15	7	29.88	209.16
2	5/7.2	28	25.15	704.00
Total				913.36

Say Rs.1000.00 Lakhs

Sd/-  
Chief Engineer/Transmission (I/C)

Annexure V to the T.O.O (CE-Transmission) Ms.No.357, Dt.07.05.2019 (FY:2018-19)  
(For arranging Metal spreading and Water arrangement to earth pits in switchyards)

Sl. No.	Name of the Circle	Name of the Substation	No. of Substations	Total Amount Rs. In Lakhs)
1	SE / OMC /Metro-Central	220 KV SS Erragadda	1	60.00
2	SE / OMC - Metro-East	220KV SS Shivarampally	5	142.00
3		220KV SS Chandrayangutta		
4		132KV SS Bandlaguda		
5		220KV SS Shamshabad		
6		220KV SS HAIL		
7	SE / OMC / Metro-West	220KV SS Gachibowli	10	455.00
8		132KV SS Ibrahimpatnam		
9		132KV SS Medhcal		
10		220KV SS Medhcal		
11		132KV SS IDPL		
12		220KV SS Tandur		
13		132KV SS Puttapahad		
14		220KV SS Parigi		
15		132KV SS Dharamasagar		
16		220KV SWS Shapurnagar		
17	SE / OMC / Nalgonda	132 KV SS Kodandapur	13	265.00
18		132 KV SWS Narsarlapally		
19		132 KV SWS Godakondla		
20		220 KV SWS Chalakurthy		
21		132 KV SS Ramannapet		
22		In 33 KV Yard and 132 KV Yard at 220 KV SS Narketpally		
23		132 KV SS Shaligouraram		
24		220 KV SS Bhongiri		
25		132 KV SS Kolanpaka		
26		132 KV SS Bibi Nagar		
27		In 33 KV Yard and 132 KV Yard at 220 KV SS Miryalguda		
28		132 KV SS Mattampally		
29		132 KV SS Kondamallapally		
30	SE / OMC / Mahabubnagar	220/132/ 33 KV SS Mahabubnagar	9	144.00
31		220/132/ 33 KV SS Wanaparthy		
32		132/ 33 KV SS Balanagar		
33		132/ 33 KV SS Gadwal		
34		In 220 KV Yard at 132 KV SS Nagarkurnool (upgraded)		
35		132/ 33 KV SS Makthal		
36		132/ 33 KV SS Amangal		
37		220/ 132/ 33 KV SS Kalwakurthy		
38		132/ 33 KV SS Khilaghanapur		

Sl. No.	Name of the Circle	Name of the Substation	No. of Substations	Total Amount Rs. In Lakhs)
39	SE/OMC/Sangareddy	132/ 33 KV SS Kandi	7	231.00
40		132/ 33 KV SS Sadasaivpet		
41		220 KV SS Yeddumailaram		
42		132/ 33 KV SS Kowidpally		
43		132/ 33 KV SS Narayenkhed		
44		132/ 33 KV SS Manoharabad		
45		220/132 KV SS Siddipet		
46		SE/OMC/Warangal		
47	132 KV SS Nekkonda			
48	132 KV SS Ghanpur			
49	132 KV SS Kamalapur			
50	132 KV SS Mulugu			
51	132 KV SS Waddekothapally			
52	SE/OMC/Khammam	220 KV SS Manuguru	8	261.00
53		132 KV SS Bhadrachalam		
54		132 KV SS Yellandu		
55		132 KV SS Khammam		
56		132 KV SS Kusumanchi		
57		220 KV SS Budidampadu		
58		220 KV SS Sitarampatnam		
59		In 220 KV Yard at 132 KV SS Aswaraopeta (upgraded)		
60	SE/OMC/ Karimnagar	132KV SS Korutla	11	236.00
61		132KV SS Manthani		
62		220KV SS Malyalapally		
63		132KV SS Dharmapuri		
64		132KV SS Pudur		
65		132KV SS Mallaram		
66		220 KV SS Durshed		
67		132 KV SS Karimnagar		
68		132KVSS Husnabad		
69		132KVSS Sulthanabad (Suglampally)		
70		132KVSS Jammikunta		
71	SE/OMC/Nizamabad	220KV SS Bheemgal	7	100.00
72		220KV SS Dichpally		
73		132KV SS Nandipet		
74		132KVSS Pochampad		
75		132KVSS Jakora		
76		132KVSS Domakonda		
77		132KVSS Bichkunda		
78	SE/OMC/Adilabad	132KV SS Bellampally	4	110.00
79		132KV SS Sirpur- Kagaznagar		
80		132KVSS Adilabad		
81		132KVSS Mancherial		
Total			81	2152.00

Sd/-  
Chief Engineer/Transmission (I/c)