

**TRANSMISSION CORPORATION OF TELANGANA LIMITED**

TSTRANSCO - Augmentation Scheme-IV - Erection of 315 / 500 MVA ICT's at 400kV, Asupaka, Suryapet, Veltoor, Dichpally & Gajwel Sub-Stations - Revised Administrative Approval - Accorded.

T.O.O.(CE-400kV) Ms.No. 1530

Dt. 03.12.2022

Read the following : -

1. T.O.O. (CE-400kV) Ms.No.1311, Dt.14.02.2022

PROCEEDINGS :

1. Administrative approval was accorded vide T.O.O. cited above for Augmentation Scheme-IV - Erection of 315 / 500 MVA ICT's at 400kV Asupaka, Suryapet, Veltoor, Dichpally & Gajwel Sub-Stations as follows :

S. No	Name of the Sub-station & existing ICT capacity (MVA)	Description of work	Proposed ICT Capacity (MVA)
1	400kV Suryapet Sub-station (2x315MVA)	Dismantling of existing 315MVA ICT at Veltoor Sub-station and erection at Suryapet SS	2x315 + 1x315
2	400kV Asupaka Sub-station (1x315MVA)	Dismantling of existing 315MVA ICT at Veltoor Sub-station and erection at Asupaka SS	1x315 + 1x315
3	400kV Veltoor Sub-station(4x315MVA)	Installation of 2 Nos. 500MVA ICTs in place of 2 Nos.315MVA ICTs	2x315 + 2x500
4	400kV Dichpally Sub-station (3x315MVA)	Dismantling of existing 315MVA ICT at Gajwel Sub-station and erection at Dichpally SS	3x315 + 1x315
5	400kV Gajwel Sub-station (3x315+ 1x500MVA)	Installation of 1 No. 500MVA ICT in place of 315MVA ICT	2x315 + 1x500+ 1x500

2. In the meantime, the 315MVA ICT at 400kV Veltoor SS which was envisaged to be diverted and erected at 400kV Suryapet SS has failed due to HV bushing flashover. After rectification the same 315MVA ICT will be installed at 400kV Mamidipally SS by Transmission wing duly arranging separate budget.
3. Further CEA in their approval informed that considering the future load growth and optimum utilization of space, Telangana may consider 500MVA ICTs in place of 315MVA ICTs at Dichpally & Suryapet 400kV Sub-Stations.

4. In this connection, TSTRANSCO envisaged to procure 2 Nos. 500MVA ICTs instead of 315MVA ICTs for utilizing at 400kV Dichpally and 400kV Suryapet SS in view of the future load growth and also price reasonability.
5. The released 315MVA ICT from 400kV Gajwel SS shall be diverted to 400kV Kamalapuram LI SS for erection in place of diverted 315MVA ICT to BTPS.
6. Accordingly, revised Augmentation Scheme-IV is formulated for installation of 315/500MVA ICTs at the above 400kV Sub-stations. The revised Scheme contemplates the following works :

S.No.	Sub-station	Work description	Proposed Transformation Capacity (MVA)
1	400kV Asupaka Sub-station (1x315MVA)	Dismantling of existing 1No. 315MVA ICT at Veltoor Sub-station and erection of above 315MVA ICT at Asupaka SS.	1x315 + 1x315
2	400kV Suryapet Sub-station (2x315MVA)	Installation of 1 No. 500MVA ICT at Suryapet 400kV SS (Addl.)	2x315 + 1x500
3	400kV Veltoor Sub-station(4x315MVA)	Installation of 2 Nos.500MVA ICTs in place 2 Nos.315MVA ICTs	2x315 + 2x500
4	400kV Dichpally Sub-station (3x315MVA)	Installation of 1 No. 500MVA ICT at Dichpally 400kV SS (Addl.)	3x315 + 1x500
5	400kV Gajwel Sub-station (3x315+1x500MVA)	a) Installation of 1 No. 500MVA ICT in place of 315MVA ICT at Gajwel SS b) Dismantling of existing 1No. 315MVA ICT at Gajwel Sub-station and erection at 400kV Kamalapuram SS	2x315+1x500 + 1x500

7. After careful examination, TSTRANSCO hereby accords revised Administrative approval for “Augmentation Scheme-IV - Erection of 315 / 500 MVA ICT’s at 400kV Asupaka, Suryapet, Veltoor, Dichpally, Gajwel & Kamalapuram Sub-stations” at an estimated cost of Rs.175.48 Crores and Interest During Construction is Rs.12.00 Crores. The total cost of the scheme including IDC is 187.48 Crores as per the Annexure enclosed.

8. Chief Engineer/400kV/Vidyut Soudha is authorized to take up the above works and shall provide the necessary budget as per the scope.
9. The scheme will be met from internal funds of TSTRANSCO.
10. This order is issued with the concurrence of the JMD/TSTRANSCO vide Regd. No.4768, dated:10.11.2022.

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

Encl: Annexure

D.PRABHAKAR RAO
CHAIRMAN AND MANAGING DIRECTOR

To:

1. Chief Engineer/ 400kV/TSTRANSCO/ Vidyut Soudha, Hyderabad.

Copy to:

- 1) Executive Director (Finance)/ TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 2) Chief Engineer/Transmission/TSTRANSCO/Vidyut Soudha/Hyderabad.
- 3) Chief Engineer/ Construction/TSTRANSCO/Vidyut Soudha/Hyderabad.
- 4) Chief Engineer/ 400kV/Construction/TSTRANSCO/Warangal.
- 5) Chief Engineer/LIS/TSTRANSCO/Vidyut Soudha/Hyderabad.
- 6) Chief Engineer/ Power Systems/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 7) Chief Engineer/ SLDC/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 8) Chief Engineer/ Telecom/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 9) Chief Engineer/ Civil/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 10) Chief Engineer/Comml.& RAC/TSTRANSCO/VS/Hyd.
- 11) Chief General Manager/HRD/TSTRANSCO/Vidyut Soudha/Hyderabad.
- 12) Chief Engineer/Metro Zone/ TSTRANSCO/ Hyderabad.
- 13) Chief Engineer/Rural Zone/ TSTRANSCO/ Hyderabad.
- 14) Chief Engineer/ Karimnagar Zone /TSTRANSCO/ Karimnagar.
- 15) Chief Engineer/Warangal Zone/ TSTRANSCO/ Hyderabad.
- 16) SE(T) to CMD/TSTRANSCO/VidyutSoudha/ Hyderabad.
- 17) Superintending Engineer/Power Systems/TSTRANSCO/Vidyut Soudha/Hyd.
- 18) Superintending Engineer/400kV/Const./Metro/TSTRANSCO/Hyderabad.
- 19) Superintending Engineer/400kV/Const./Rural/TSTRANSCO/Hyderabad.
- 20) Superintending Engineer/400kV/Const./TSTRANSCO/Warangal.
- 21) DE (T) to Director (Projects)/TSTRANSCO/ VS/ Hyd.
- 22) DE (T) to Director (Transmission)/TSTRANSCO/ Vidyut Soudha / Hyd.
- 23) ADE (T) to Director (Lift Irrigation Schemes)/ TSTRANSCO/ VS/ Hyderabad.
- 24) AE (T) to Director (Grid Operations)/ TSTRANSCO/VS/ Hyderabad.
- 25) P.S. to JMD (Finance, Comml., & HRD) /TSTRANSCO/VS/Hyd.
- 26) Company Secretary/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 27) Estate Officer/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 28) Central Record Section - 2 copies.

ANNEXURE

(T.O.O. (CE-400kV) Ms.No. 1530, Dt.03.12.2022)

ABSTRACT ESTIMATE			
Augmentation Scheme-IV- Erection of 315/500MVA ICT's at 400kV Asupaka, Suryapet, Veltoor, Dichpally & Gajwel Sub-stations.			
S. No.	Description of Work	Capacity (MVA)	Amount Rs. in Lakhs
1	Cost Estimate for Dismantling of existing 315MVA ICT at Veltoor Substation and erection of above 315MVA, 400/220 kV Auto Transformer at Asupaka Substation	315 MVA	213.75
2	Cost Estimate for Erection of 500MVA, 400/220 kV Auto Transformer at Suryapet Substation	500 MVA	3,545.44
3	Cost Estimate for Augmentation of 2 Nos 500MVA, 400/220 kV Auto Transformer at Veltoor Substation	1000 MVA	5,377.87
4	Cost Estimate for erection of 500MVA, 400/220 kV Auto Transformer at Dichpally Substation	500 MVA	3,359.29
5	Cost Estimate for Dismantling of existing 315MVA ICT at Gajwel Substation and erection at 400kV Kamalapuram LI SS and Augmentation of 500MVA, 400/220 kV Auto Transformer at Gajwel Substation	500 MVA	2,796.29
6	Total amount :		15,292.64
7	Special T & P @ 1% on (6):		152.93
8	Contingencies @3% on (6) :		458.78
9	Estt. and other charges @ 10.75% on (6) :		1,643.96
10	Grand Total (6-9) :		17,548.30
	or Say (Rs. in Crores) ::		175.48
	Interest During Construction (Rs. in Crores) :		12.00
	Total Scheme Cost including IDC (Rs. in Crores) :		187.48

Sd/-
CHIEF ENGINEER /400kV