



TRANSMISSION CORPORATION OF TELANGANA LIMITED

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

T.O.O. (CE-400kV) Ms.No.1311

Dt.14.02.2022

Read the following: -

PROCEEDINGS:

1. Load flow studies were carried out for 2024-25-time frame duly considering Telangana State Demand of 16900MW (as per 19th EPS - Electric Power Survey report).
2. The observations of the above load flow studies are as follows:
 - a) The loading on 400/220kV ICTs at 400kV Dichpally SS and 400kV Veltoor SS are crossing full load limit during normal and N-1 contingency conditions.
 - b) To meet the loads incident during next Rabi and Kharif seasons-2022, the ICT augmentation at 400kV Gajwel SS and 400kV Suryapet SS are necessary.
3. In view of the above, it is proposed to augment ICTs at the following sub-stations.

S.No.	Name of substation	Existing ICT Capacity (MVA)	Proposed ICT Capacity (MVA)
1	400kV Dichpally SS	3 x 315	4 x 315
2	400kV Veltoor SS	4 x 315	2 x 315 + 2 x 500
3	400kV Gajwel SS	3 x 315 + 1 x 500	2 x 315 + 2 x 500
4	400kV Suryapet SS	2 x 315	3 x 315

4. CEA has also accorded approval for augmentation of ICTs at above 400kV Sub-stations.
5. As per the present load conditions, erection of another 315MVA ICT at 400kV Asupaka SS is necessitated, as the Sub-Station is having only one no.315 MVA ICT.
6. Accordingly, Augmentation Scheme-IV is formulated for installation of 315 / 500MVA ICTs at the above 400kV Sub-stations. The Scheme contemplates the following works:

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

7. After careful examination, TSTRANSCO hereby accords Administrative approval for “Augmentation Scheme-IV - Erection of 315 / 500 MVA ICT’s at 400kV Suryapet, Asupaka, Veltoor, Dichpally & Gajwel Sub-stations” at an estimated cost of Rs.117.73Crs. and Interest During Construction of Rs.9.68 Crs. The total cost of the scheme including IDC is Rs.127.41Crores 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 executed with Loan sanctioned by REC/PFC/any other Financial Agencies.
10. This order is issued with the concurrence of the JMD/TSTRANSCO vide Regd. No.447, dated:09.02.2022.

(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.1311, Dt.14.02.2022)

ABSTRACT ESTIMATE			
Augmentation Scheme-IV- Erection of 315 / 500MVA ICT's at 400kV Suryapet, Dichpally, Gajwel, Asupaka & Veltoor 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 ICT at Suryapet Substation	315 MVA	1,088.29
2	Cost estimate for Dismantling of existing 315MVA ICT at Veltoor Substation and erection of above 315MVA, 400/220 kV ICT at Asupaka Substation	315 MVA	213.75
3	Cost estimate for Augmentation of 2 Nos 500MVA, 400/220 kV ICT at Veltoor Substation	1000 MVA	5,377.87
4	Cost estimate for Dismantling of existing 315MVA ICT at Gajwel Substation and erection of above 315MVA, 400/220 kV ICT at Dichpally Substation	315 MVA	891.17
5	Cost estimate for Augmentation of 500MVA, 400/220 kV ICT at Gajwel Substation	500 MVA	2,688.93
6	Total amount :		10,260.01
7	Special T & P @ 1% on (6):		102.60
8	Contingencies @3% on (6) :		307.80
9	Estt. and other charges @ 10.75% on (6) :		1,102.95
10	Grand Total (6-9) :		11,773.36
	or Say (Rs. in Crores) ::		117.73
	Interest During Construction (Rs. in Crores) :		9.68
	Total Scheme Cost including IDC (Rs. in Crores) :		127.41

Sd/-

CHIEF ENGINEER /400kV