



## TRANSMISSION CORPORATION OF TELANGANA LIMITED

SUB: Chandanvally System Improvement Scheme - Construction of 400/220kV Chandanvally GIS at Ranga Reddy District (without ICTs and Reactors)– Administrative approval -Accorded – Regarding

T.O.O.(CE-400kV) Ms.No.2637

Date: 31.01.2026

Read the following:

### **ORDER**

TGTRANSCO has taken up the Perspective Transmission Plan from 2024-25 to 2028-29, consisting of the New 400kV, 220kV & 132kV GIS/Substations along with connected Transmission network and Augmentation of ICTs in the existing 400kV, 220kV & 132kV GIS/Substations.

2. As part of the above plan, a new 400kV GIS is proposed at Chandanvally, Shabad (Mandal), Rangan Reddy (District) as there is potential load growth at TGIIC, Chandanvally. It is to submit that, the existing 220kV Chandanvally SS is catering Power Supply to Multi-National Companies (Amazon, Microsoft, Welspun, etc) located at TGIIC, Chandanvally, Shabad (Mandal), Rangareddy (District).

The Chief Engineer/Metro Zone/Hyderabad vide letter Dt.29.11.2024 has furnished the expected load particulars at 220kV Chandanvally of 820 MW (approx.) and the feasibility report towards extension of supply for a load of 250 MVA at 220kV level to M/s. Madhuvanthi Build Estate Pvt Ltd from 220/132/33kV Chandanvally. For meeting the ultimate loads of the present applicants and future loads of other consumers, Power Systems wing recommended to plan for upgradation of 220kV Chandanvally Substation to 400kV level with sufficient provision for meeting the requirement.

3. The Power systems wing vide letter Dt.29.04.2025 requested CEA to accord approval for Upgradation of existing 220/132/33kV Chandanvally SS to 400/220/132/33kV Substation with 3x500 MVA, 400/220kV ICTs and 1x125 MVAR Bus Reactor.

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4. During the Video conference meeting Dt.07.07.2025 among CEA, SRLDC, CTUIL and TGTRANSCO officials to discuss the intra-state proposals of Telangana, new proposal i.e New 400/220kV Substation is discussed. The proposal of upgradation of existing 220/132/33kV Chandanvally to 400kV Level is revised and a new 400/220kV Chandanvally SS is proposed due to land Geographics as there is severe space constraint at existing 220/132/33kV Chandanvally SS and the approval for the following scheme was communicated vide MoM Dt.21.07.2025.

- a) 400/220kV Chandanvally SS 3x500 MVA, 400/220 kV ICTs and 1x125 MVAR Bus Reactor.
- b) LILO of other circuit of 400 kV Suryapet – Kethireddypally QMDC line at 400 kV Chandanvally SS (1 km LILO Length).
- c) 400 kV QMDC line from upcoming 400 kV CTRLS Switching Station to proposed 400kV Chandanvally SS – 9 km.
- d) 220 kV TMDC line from proposed 400/220 kV Chandanvally SS to existing 220 kV Chandanvally SS – 2.5 km.
- e) 220 kV SMDC line from proposed 400/220 kV Chandanvally SS to M/s Sitarampur TSIIC SEZ – 14 km
- f) 220 kV DC line from proposed 400/220 kV Chandanvally SS to M/s Chandanvally Infra Park Limited – 2 km UG Cable
- g) 220 kV DC line from proposed 400/220 kV Chandanvally SS to M/s Madhuvanti build Estate Pvt. Limited – 4 km UG Cable

5. Accordingly, the Scheme is formulated, as approved by CEA and the Scheme contemplates the following scope of works, **as per the proposed 400kV Chandanvally Site Conditions:**

- a) Construction of 400/220kV Chandanvally GIS at Ranga Reddy District (without ICTs and Reactors).

TGIIC earmarked land to an extent of 10 Acres at Industrial Park, Chandanvally for construction of 400kV GI Substation to cater to the up coming power requirements of IP Chandanvally.

6. After careful examination, TGTRANSCO accords Administrative Approval for Construction of 400/220kV Chandanvally GIS at Ranga Reddy District (without ICTs and Rectors) under Chandanvally System Improvement Scheme at an estimated cost of Rs.280.36 Crore and Interest During Construction (IDC) of Rs.16.82 Crore. The total cost of the Scheme including IDC is Rs.297.18 Crore.
7. The Chief Engineer/ 400kV, Vidyut Soudha, Hyderabad is authorized to take up the 400kV works and FA&CCA (Resources & Accounts) & CFO shall provide the necessary budget as per the scope of works.
8. The Scheme will be executed with financial assistance from PFC/ REC/ HUDCO/any other financial assistance or from Internal resources.
9. This Order is issued with the concurrence of the Director (Finance, Comml., & HRD), TGTRANSCO vide Regd. No.2480, dated 22.12.2025.

Encl: Annexure

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

D.KRISHNA BHASKAR, IAS  
CHAIRMAN AND MANAGING DIRECTOR

To,  
The Chief Engineer/400kV, TGTRANSCO, Vidyut Soudha, Hyderabad  
The FA & CCA / (Resources & Accounts) & CFO, TGTRANSCO, Vidyut Soudha, Hyd.  
Copy to:  
The FA & CCA (Audit and Expenditure), TGTRANSCO, Vidyut Soudha, Hyd.  
The Chief Engineer/Comml.&RAC, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/P&MM, TGTRANSCO, Vidyut Soudha, Hyderabad  
The Chief Engineer/Construction I & II, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/Power Systems, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/SLDC, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/Transmission, TGTRANSCO, Vidyut Soudha, Hyderabad.

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The Chief Engineer/Civil, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/Telecom, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Chief Engineer/400kV, Construction, TGTRANSCO, Warangal  
The Chief Engineer/Metro Zone, TGTRANSCO, Erragadda, Hyderabad.  
The Superintending Engineer/400kV/Const./Metro, TGTRANSCO, Hyderabad.  
The Superintending Engineer/Schemes & Designs/Construction, Vidyut Soudha/Hyd  
The Superintending Engineer/Power Systems, TGTRANSCO, Vidyut Soudha, Hyd.  
SE (Technl.) to CMD/TGTRANSCO/Vidyut Soudha / Hyderabad.  
DE (Technl.) to Director/ Projects, TGTRANSCO, Vidyut Soudha, Hyderabad.  
DE (Technl.) to Director/Grid & Transmission Management, TGTRANSCO, Hyd.  
PA to Director/ Finance, Comml. & HRD, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Company Secretary, TGTRANSCO, Vidyut Soudha, Hyderabad.  
The Estate Officer, TGTRANSCO, Vidyut Soudha, Hyderabad.  
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<b>ANNEXURE to T.O.O. (CE-400kV) Ms.No.2637, Dt.31.01.2026</b>		
<b>Chandanavally System Improvement Scheme : Construction of 400/220kV Chandanavally GIS (without ICTs and Reactors)</b>		
<b>S. No.</b>	<b>Description</b>	<b>Total amount (in Rs. Crores)</b>
<b>1</b>	<b>Construction of 400/220kV Chandanavally GIS (without ICTs and Reactors)</b> <b>(400kV feeder Bay Modules - 2 Nos. for LILO Line</b> <b>400kV Tie Bay Modules - 4 Nos.</b> <b>500 MVA ICT Bay Modules - 3 Nos. each at 400kV and 220kV</b> <b>125 MVAR Reactor Bay Module - 1 No.</b> <b>220kV feeder Bay Modules - 6 Nos.</b> <b>220kV Bus Coupler Module - 1 No. including corresponding 400kV and 220kV Bus Bar Mudules with all accessories)</b>	<b>244.03</b>
<b>Special T &amp; P @ 1% :</b>		<b>2.44</b>
<b>Total including T&amp;P in Rs.</b>		<b>246.47</b>
<b>Contingencies (3%) :</b>		<b>7.39</b>
<b>Estt. and other charges @ 10.75% :</b>		<b>26.50</b>
<b>Grand Total :</b>		<b>280.36</b>
<b>IDC:</b>		<b>16.82</b>
<b>Total price including IDC:</b>		<b>297.18</b>
<p style="text-align: right;"><b>Sd/-</b> <b>CHIEF ENGINEER/400KV</b></p>		