



TRANSMISSION CORPORATION OF TELANGANA LIMITED

SUB: Chandanvally system improvement Scheme – 400kV and 220kV Transmission Network Connectivity at the proposed 400/220kV Chandanvally GIS – Administrative approval -Accorded – Regarding

T.O.O.(CE-400kV) Ms.No.2640

Date: 31.01.2026

Ref: 1) T.O.O.(CE-400kV) Ms.No.2637, Dt: 31.01.2026 on administrative approval for Construction of 400/220kV Chandanvally GIS (without ICTs and Reactors).
2) T.O.O.(CE-400kV) Ms.No.2638, Dt: 31.01.2026 on Administrative Approval for 3 Nos. 500 MVA, 400/220kV ICTs and 1 No. 125 MVAR Bus Reactors required at the proposed 400/220kV Chandanvally GIS along with 2 Nos. GIS Bay Extensions required for CTRLS Switching Station at proposed 400/220kV Chandanvally GIS (with 2 Nos. line GIS Bays, 1 No. ICT GIS Bay and 1 No. Reactor GIS Bay, for future provision) under Chandanvally System Improvement Scheme.

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).
3. CEA has accorded approval for the following scheme and has 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

4. TGTRANSCO accorded administrative approval vide T.O.O cited (1) 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 297.18 Crore.

5. Also, TGTRANSCO accorded Administrative approval vide T.O.O cited (2) for 3 Nos. 500 MVA, 400/220kV ICTs and 1 No. 125 MVAR Bus Reactors required at the proposed 400/220kV Chandanvally GIS at Ranga Reddy District along with 2 Nos.GIS Bay Extensions required for CTRLS Switching Station at the proposed 400/220kV Chandanvally GIS (with 2 Nos. line GIS Bays, 1 No. ICT GIS Bay and 1 No. Reactor GIS Bay, for future provision) under Chandanvally System Improvement Scheme at an estimated cost of Rs.266.93 Crore and Interest During Construction (IDC) of Rs.16.01 Crore. The total cost of the Scheme including IDC is Rs.282.94 Crore.

6. As such to establish the required 400kV and 220kV Transformation network connectivity at the proposed Chandanvally 400/220kV GIS , the Scheme is formulated with the following scope of works, **as per the proposed 400kV Chandanvally Site Conditions:**

- a) LILO of one circuit 400kV Suryapet – Kethereddypally QMDC line at 400kV Chandanvally GIS with 2 Nos. INLINE MULTI CIRCUIT TOWERS -1kM
- b) 400kV DC line with Twin HTLS on Multi Circuit Monopoles (top circuits) and Monopoles Towers from proposed 400kV Chandanvally GIS to upcoming 400kV CTRLS switching station - 9 kM
- c) Diversion of the existing 220kV TMDC line from 400kV Kethireddypally SS to the existing 220/132/33kV Chandanvally Substation – 2 kM
- d) 220kV TMDC line from proposed 400/220kV Chandanvally GIS on Multi Circuit Monopole Towers (bottom Circuits) and joining to the existing line connected to the 220kV Chandanvally SS– 2.0 kM.
- e) 220kV Bay Extensions required for diversion of the existing 220kV TMDC line from 400kV Kethireddypally SS to the existing 220/132/33kV Chandanvally Substation – 2 Nos.

The existing 2 Nos. 220kV Kethireddypally Bays at 220kV Chandanvally SS will be utilized for termination of 220kV line from proposed 400kV Chandanvally GIS.

7. After careful examination, TGTRANSCO accords Administrative Approval for 400kV and 220kV Transmission Network Connectivity at the proposed 400/220kV Chandanvally GIS at Ranga Reddy District under Chandanvally System Improvement Scheme at an estimated cost of Rs. 234.16 Crore and Interest During Construction (IDC) of Rs. 14.05 Crore. The total cost of the Scheme including IDC is Rs. 248.21 Crore.
8. The Chief Engineer/ 400kV, Vidyut Soudha, Hyderabad is authorized to take up the 400kV and 220kV works and FA&CCA (Resources & Accounts) & CFO shall provide the necessary budget as per the scope of works.
9. The Scheme will be executed with financial assistance from PFC/ REC/ HUDCO/any other financial assistance or from Internal resources.

10. 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.
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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ANNEXURE to T.O.O. (CE-400kV) Ms.No.2640, Dt.31.01.2026

Chandanvally system improvement Scheme : 400kV and 220kV Transmission Network Connectivity at proposed Chandanvally 400/220kV GIS Sub Station

(Amount in Rs. crores)

Sl. No.	Description of Line/ Substation	Length/ No. of bays	Estimated Cost
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A:400kV Transmission System:

1	400 kV Lines :			
(i)	LILO of one circuit 400kV Suryapet – Kethireddypally QMDC line at 400kV Chandanvally GIS with 2 Nos. INLINE MULTI CIRCUIT TOWERS and 4 Nos. Conventional Towers	1	kM	22.76
(ii)	400kV DC line with Twin HTLS on Multi Circuit Monopoles (top circuits) and Monopoles Towers from proposed 400kV Chandanvally GIS to upcoming 400kV CTRLS switching station (including dismantling of 220kV existing line towers)	9	kM	167.31
2	400kV Bay Extensions :			
i)	400kV Quad Bay Extensions at 400kV CTRLS switching station (covered under CTRLS Scheme under DC work, being executed by the consumer)	2	No s.	Cost will be born by CTRLS
Total of A:				190.07

B:220kV Transmission System:

1	Diversion of the existing 220kV TMDC line from 400kV Kethireddypally SS to the existing 220/132/33kV Chandanvally Substation	2	kM	4.76
2	220kV TMDC line from proposed 400/220kV Chandanvally GIS on Multi Circuit Monopole Towers (bottom Circuits) and joining to the existing line connected to the 220kV Chandanvally SS, by re-stringing of the 220kV line on 400kV Multi circuit monopoles	2	kM	2.00
3	220kV Bay Extensions required for diversion of the existing 220kV TMDC line from 400kV Kethireddypally SS to the existing 220/132/33kV Chandanvally Substation	2	No s.	3.98
Total of B:				10.74

C : Communication Equipment:

(i)	400kV Works	LS	3.00
(ii)	220kV Works	LS	
	Total of C:		3.00
	Total (A+B+C) :		203.81
D)		Special T & P @ 1% :	2.04
		Total (A+B+C+D) :	205.85
F)		Contingencies (3%) :	6.18
		Total including contingencies:	212.03
G)		Estt. and other charges @ 10.75% :	22.13
		Grand Total :	234.16
		or Say (Rs. in Crores) ::	234.16
		IDC in Rs. Crores	14.05
	Total price including IDC in Rs. Crores:		248.21

Sd/-
CHIEF ENGINEER/400kV