



TRANSMISSION CORPORATION OF TELANGANA LIMITED

Sub: 400kV Transmission Network connectivity for 400/220/132/33kV Kokapet GIS - Reconductoring of Circuit-II of 400 kV Shankarpally- Maheshwaram TMDC line along with Procurement of 3 Nos. 500 MVA, 400/220kV ICTs – Administrative approval -Accorded – Regarding.

T.O.O.(CE-400kV) Ms.No. 2728

Date: - 24.04.2026

Ref: 1) T.O.O.(CE-400kV) Ms.No. 2724, Dt: 24.04.2026

2) T.O.O.(CE-400kV) Ms.No. 2725, Dt: 24.04.2026

3) T.O.O.(CE-400kV) Ms.No. 2726, Dt: 24.04.2026

4) T.O.O.(CE-400kV) Ms.No. 2727, Dt: 24.04.2026

Read the following:

ORDER

1. TGTRANSCO has contemplated perspective Transmission plan for the year 2025-30 to meet the peak demand of Telangana State. In this connection, Chief Engineer/Projects/TGSPDCL was requested to furnish the load projections for the next 5 years in the vicinity of Kokapet area.
2. Chief Engineer/Projects/TGSPDCL vide letter dtd:08.10.2025 informed that tentative load of 1090MVA is anticipated in future in and around Kokapet area as per the load projections prepared considering the existing and proposed developments within the Cybercity circle, ongoing infrastructure expansion, Industrial & commercial establishments and Residential layouts.
3. HMDA is developing a Kokapet Layout in the extent of 530 acres of land which will have Software companies, Commercial & Residential High Rise Buildings and hence huge power demand is expected in that area.
4. HMDA handed over Ac.5-20Gts of land at Kokapet layout beside HMWS pump house for construction of Substation.
5. Keeping in view of the above load projections, TGTRANSCO has decided for construction of 400/220/132/33 kV Gas Insulated Substation at Kokapet along with connected network and CEA has also accorded approval for the following works, vide letter dated 16.02.2026.

- i) 400/220/132/33kV Kokapet SS with 3x500MVA 400/220kV ICTs, 1x125MVAR Bus Reactor, 3x160MVA 220/132kV PTRs, 2x160MVA 220/33kV PTRs and 4x80MVA 132/33kV PTRs.
 - ii) LILO of circuit-II of 400kV Shankarpally-Maheshwaram TMDC Line to proposed 400kV Kokapet SS and reconductoring of 400kV Shankarpally-Kokapet line and 400kV Maheshwaram-Kokapet line with Twin Moose HTLS conductor-18kM LILO length.
 - iii) Upgradation of existing 132/33kV RC Puram SS to 220/132/33kV SS with 2x160MVA PTRs
 - iv) 220kV DC Line from Kokapet SS to RC Puram SS-11KM (5kM UG Cable+6kM OH Line).
 - v) Proposed 220/33kV Gopanpally SS with 2x160MVA PTRs.
 - vi) 220kV DC Line from Kokapet SS to Gopanpally SS -4.9KM UG Cable.
 - vii) Proposed 220/33kV Manchirevula SS with 2x160MVA PTRs.
 - viii) 220kV DC line from Kokapet SS to Manchirevula SS-5kM UG Cable.
6. As per above CEA approval, TGTRANSCO has already accorded Administrative approvals for the following works
- i. Installation of GIS Bays for 2 Nos 500MVA 400/220kV ICT's, 1No.125MVAR 400kV Bus Reactor, 2 Nos 400kV Feeders, 2Nos.160MVA 220/33kV PTRs and 10 Nos 33kV Feeders (without ICTs, PTRs & Reactor) vide T.O.O Ms No. 2724, Dt: 24.04.2026, at an estimated cost of Rs.267.69 Crore and Interest During Construction (IDC) of Rs. 25.30 Crore. The total cost including IDC is 292.99 Crore.
 - ii. Installation of GIS Bays for 1No. 500MVA 400/220kV ICT, 3Nos.160MVA 220/132kV PTRs, 4Nos 80 MVA 132/33 kV PTRs, 6 Nos 220KV Feeders, 10 Nos 132 kV Feeders and 10 Nos 33kV Feeders along with procurement of 3 Nos 160 MVA 220/132kV PTRs and 4 Nos 80 MVA 132/33kV PTRs vide T.O.O Ms No. 2725, Dt: 24.04.2026, at an estimated cost of Rs.270.58 Crore and Interest During Construction (IDC) of Rs.19.27 Crore. The total cost including IDC is 289.85 Crore.

- iii. LILO of Circuit-II of 400kV Shankarpally-Maheshwaram TMDC line to proposed 400kV Kokapet GIS with Twin HTLS Conductor (Part of LILO line on Conventional Multi Circuit Towers-15kM) along with Procurement of 1 No. 125MVAR Bus Reactor and 2Nos 160 MVA, 220/33kV PTRs vide T.O.O Ms No. 2726, Dt: 24.04.2026 at an estimated cost of Rs. 257.00 Crore and Interest During Construction (IDC) of Rs.20.21 Crore. The total cost including IDC is Rs.277.21 Crore.
 - iv. LILO of Circuit-II of 400kV Shankarpally-Maheshwaram TMDC line to proposed 400kV Kokapet GIS with Twin HTLS Conductor (Part of LILO line on Multi Circuit Monopoles-8kM) vide T.O.O Ms No. 2727, Dt: 24.04.2026 at an estimated cost of Rs. 270.90 Crore and Interest During Construction (IDC) of Rs.23.77 Crore. The total cost including IDC is Rs. 294.67 Crore.
7. Further, the following works are also formulated for proposed 400 kV Kokapet SS (GIS) and the connected lines.
- a) Reconductoring of Circuit-II of 400kV Shankarpally-Maheshwaram TMDC line - from LILO point to Shankarpally SS (3 kM) and from LILO point to 400kV Maheshwaram SS (82 kM) with Twin HTLS conductor.
 - b) Upgradation of 1 No 400kV Feeder Bay equipments at 400kV Shankarpally SS.
 - c) Procurement of 3 Nos 500 MVA 400/220kV ICTs.
8. After careful examination, TGTRANSCO accords Administrative Approval for 400kV Transmission Network connectivity for 400/220/132/33kV Kokapet GIS i.e., Reconductoring of Circuit-II of 400 kV Shankarpally- Maheshwaram TMDC line along with Procurement of 3 Nos. 500 MVA, 400/220kV ICTs and upgradation of 400kV Bay at Shankarpally SS at an estimated cost of Rs.278.15 Crore and Interest During Construction (IDC) of Rs.12.29 Crore. The total cost including IDC is Rs.290.44 Crore.
9. 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.

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10. The work will be executed with financial assistance from PFC/ REC/ HUDCO/any other financial assistance or from Internal resources.
11. This Order is issued with the concurrence of the Director (Finance, Comml., & HRD), TGTRANSCO vide Regd. File No. 918049, Note # 15, dt: 23.04.2026.

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

Encl: Annexure

D.KRISHNA BHASKAR, IAS
CHAIRMAN AND MANAGING DIRECTOR

To,
The Chief Engineer/400kV, TGTRANSCO, VidyutSoudha, Hyderabad
The FA & CCA / (Resources & Accounts) & CFO, TGTRANSCO, VS, Hyd

Copy to:

The Chief Engineer/Construction I & II, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/P&MM, TGTRANSCO, VidyutSoudha, Hyderabad
The Chief Engineer/Power Systems, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/SLDC, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/Transmission, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/Comml.&RAC, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/Civil, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/Telecom, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/400kV, Construction, TGTRANSCO, Warangal
The Chief Engineer/Metro Zone, TGTRANSCO, Erragadda, Hyderabad.
The Chief Engineer/Rural Zone, TGTRANSCO, Erragadda, Hyderabad.
The FA & CCA (Audit and Expenditure), TGTRANSCO, Vidyut Soudha, Hyderabad
The Superintending Engineer/400kV/Const./Metro, TGTRANSCO, Hyderabad.
The Superintending Engineer/Schemes & Designs, VidyutSoudha/Hyd
The Superintending Engineer/Power Systems, TGTRANSCO, VidyutSoudha, Hyd.
SE (Technl.) to CMD/TGTRANSCO/VidyutSoudha / Hyderabad.
DE (Technl.) to Director/ Projects, TGTRANSCO, VidyutSoudha, Hyderabad.
DE (Technl.) to Director/Grid & Transmission Management, TGTRANSCO, Hyd.
PS to Director/ Finance, Comml. & HRD, TGTRANSCO, VidyutSoudha, Hyderabad.
The Company Secretary, TGTRANSCO, VidyutSoudha, Hyderabad.
The Estate Officer, TGTRANSCO, VidyutSoudha, Hyderabad.
Central Record Section - 2 copies

ANNEXURE to T.O.O. (CE-400kV) Ms.No. 2728, Dt. 24.04.2026

400kV Transmission Network connectivity for 400/220/132/33kV Kokapet GIS Reconductoring of Circuit-II of 400 kV Shankarpally- Maheshwaram TMDC line along with Procurement of 3 Nos. 500 MVA, 400/220kV ICTs & Upgradation of 400kV bay at Shankarpally SS.

(Amount in Rs. Lakhs)

Sl. No.	Description of Line/ Substation	Length/ No. of bays	Estimated Cost
A:400kV Transmission works:			
1)	Reconductoring of Circuit-II of 400 kV Shankarpally- Maheshwaram TMDC line with Twin HTLS conductor-- from LILO point to Shankarpally SS (3 kM) and from LILO point to Maheshwaram SS (82 kM)	85 km	11,229.24
2)	Upgradation of 1 No. 400kV Feeder Bay at 400kV Shankarpally SS	1 No	490.40
3)	500 MVA 400/220 kV ICTs	3 Nos	11742.43
Total of A:			23,462.07
B: Communication Equipment			
1)	400 kV Works		748.26
Total of B:			748.26
C	Total (A+B) :		24,210.33
D	Special T & P @ 1% on C		242.10
E	Total (C+D) :		24,452.43
F	Contingencies @3% on E :		733.57
G	Estt. and other charges @ 10.75% on E :		2628.64
	Grand Total :		27,814.64
	or Say (Rs. in Crores) :		278.15
	IDC in Rs. Crores :		12.29
	Total price including IDC in Rs. Crores :		290.44

Sd/-
CHIEF ENGINEER/400kV