



Sub.: 400kV Parigi System Improvement Scheme - 400/220kV Substation at Parigi -
Administrative approval Accorded - Regarding

T.O.O.(CE-400kV) Ms.No.2639

Date:31.01.2026

Read the following:

ORDER

TGTRANSCO conducted load flow studies for 2029-30 time frame for improvement of existing transmission network by proposing 400/220kV Substation at Parigi to provide alternate connectivity to 220/132kV Tandur Substation, to reduce loading on ICTs at 400/220kV Shankarpally Substation by providing connectivity to 220kV Parigi & 220kV Tandur Substations and to reduce loading on ICTs at 400/220kV Kethireddipally Substation by providing connectivity to 220kV KP Laxmidevpally LI Substation.

2. The SE/400kV/Const./Metro, Hyderabad vide letter dated 28.10.2024 submitted the load particulars of ICT/PTRs of the relevant network as detailed below and furnished the feasibility for construction of 400/220kV Substation at Parigi.

SI No	Substation	Voltage Level (kV)	Capacity (MVA)	MD Reached		MD reached on
				(MVA)	%	
1	Kethireddypally	400/220	2x315	193.33, 192.22	61.20%	13.03.2024
2	Shankarpally	400/220	3x315 + 1x500	3x232; 316	73.65% 63.20%	22.01.2024
3	Maheswaram	400/220	2x500	295.9, 296.9	59.28%	Sept., 2023
4	Suryapet	220/132	2x315 + 1x500	198, 200; 338	63.17% 67.60%	19.09.2024
5	Parigi	220/132	2x100	78, 75	76.50%	07.03.2024
6	Tandur	220/132/33	2x100	2x77.5	61.20%	13.04.2023
7	Kosigi	220/132/33	2x100	83, 83.1	83.05%	15.03.2024

3. The Power systems wing vide letter Dt.04.07.2025 requested CEA to accord approval for 400/220kV Parigi Substation with 2x500 MVA 400/220kV ICTs, 1x125 MVAR Bus Reactor and 400kV & 220 kV connected lines.

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4. The Central Electricity Authority has considered the proposal of 400/220kV Parigi Substation and after detailed deliberations on the proposal during the joint study (along with SRPC, CTUIL & SRLDC) meeting held on 01.09.2025 through VC, approval for the proposed Scheme as below is communicated by CEA vide letter dated 03.10.2025.
 - (i) 400/220kV Parigi SS - 2x500 MVA ICTs, 1x125 MVAR Bus Reactor
 - (ii) LILO of one circuit of 400 kV Shankarpally - Kethireddipally QMDC Line at 400/220kV Parigi Substation - 35 km
 - (iii) 220kV SMDC Line from 400kV Parigi SS to 220/132kV Parigi SS - 4 km
 - (iv) 220kV TMDC line from 400kV Parigi SS to 220/11kV KP Laxmidevipalli LI Substation - 15 km
 - (v) 220kV SMDC Line from 400kV Parigi SS to 220/132kV Tandur SS- 35 km
5. After careful examination, TGTRANSCO accords Administrative Approval for Construction of 400/220kV Parigi Substation (with 2x500MVA 400/220kV ICTs and 1x125MVAR Bus Reactor) in Ranga Reddy District under 400kV Parigi System Improvement Scheme at an estimated cost of Rs.261.99 Crore and Interest During Construction (IDC) of Rs.29.47 Crore. The total cost of the Scheme including IDC is Rs.291.46 Crore.
6. The Chief Engineer/400kV, Vidyut Soudha, Hyderabad is authorized to take up the 400kV Substation works and FA&CCA (R&A) & CFO, TGTRANSCO shall provide the necessary budget for the subject Scheme.
7. The Scheme will be executed with financial assistance from PFC/ REC/ HUDCO/any other financial assistance or from Internal resources.
8. This Order is issued with the concurrence of the Director (Finance, Comml., & HRD), TGTRANSCO vide Regd. No.2481, 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 (R&A) & CFO, TGTRANSCO, Vidyut Soudha, Hyderabad

Copy to:

The FA &CCA (Audit and Expenditure), TGTRANSCO, Vidyut Soudha, Hyderabad.

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 Chief Engineer/Rural Zone, TGTRANSCO, Erragadda, Hyderabad.

The Superintending Engineer/400kV/Const./Metro, TGTRANSCO, Hyderabad.

The Superintending Engineer-II/400kV, Vidyut Soudha, Hyderabad

The Superintending Engineer-III/400kV, Vidyut Soudha, Hyderabad

The Superintending Engineer/Schemes & Designs/Construction, Vidyut Soudha/Hyd

The Superintending Engineer/Power Systems, TGTRANSCO, Vidyut Soudha, Hyd.

SE/Technl. to the CMD/TGTRANSCO, Vidyut Soudha, Hyderabad.

DE/Technl. to the Director/ Projects, TGTRANSCO, Vidyut Soudha, Hyderabad.

DE/Technl. to the Director/Grid & Transmission Management, TGTRANSCO, Hyd.

PA to the Director/ Finance, Comml. & HRD, TGTRANSCO, Vidyut Soudha, Hyderabad.

The Company Secretary, TGTRANSCO, Vidyut Soudha, Hyderabad.

The Estate Officer, TGTRANSCO, Vidyut Soudha, Hyderabad.

Central Record Section - 2 copies

<u>400kV PARIGI SYSTEM IMPROVEMENT SCHEME</u>			
<u>ABSTRACT ESTIMATE :: 400/220kV SUBSTAITON AT PARIGI</u>			
Sl. No.	Description of Work	Capacity / Line Length	Amount (Rs. in Lakhs)
1	400/220kV Substation at Parigi	2 x 500 MVA, 1 x 125 MVAR	22,489.55
2	Communication equipment for 400kV Substation (including DAS (RTU/SAS) & WAN/LAN) :		250.00
	TOTAL :		22,739.55
3	Special T & P @ 1% :		227.40
	Total including Special T&P :		22,966.95
4	Contingencies @ 3% :		689.01
	Total including Contingencies :		23,655.96
5	Estt. and other charges @ 10.75% :		2,543.02
6	Grand Total :		26,198.98
	or Say (Rs. in Crores) :		261.99
7	Interest During Construction (Rs. in Crores) :		29.47
8	Total (including IDC) - (Rs. in Crores) :		291.46

Sd/-

CHIEF ENGINEER / 400kV