



TRANSMISSION CORPORATION OF TELANGANA LIMITED

SUB: TGTRANSCO - CE(400kV) - Construction of 400/220kV ShadnagarGIS at Ranga Reddy District (excluding ICTs and Reactors)– Administrative approval -Accorded – Regarding

T.O.O.(CE-400kV) Ms.No.2644

Date: -31.01.2026

Read the following:

ORDER

1. Transmission system for Kurnool-IV REZ Phase-II (3 GW) Scheme evolved for the potential Renewable Energy Zone (REZ) in the Kurnool area. As part of the above scheme, CTUIL has envisaged the construction of a 765/400kV Shadnagar Substation by the LIGO of the Kurnool-IV – Bidar 765kV double circuit line at Shadnagar.
2. To facilitate the termination of 400kV lines from the proposed 765/400kV Shadnagar Substation under the Transmission System for Kurnool-IV REZ Phase-II (3 GW) Scheme, TGTRANSCO has proposed the construction of a 400/220kV Shadnagar GIS Substation in Rangareddy District, along with the associated network.

This scheme will also serve as a source to meet the exponentially increasing load demand observed in recent times, with further growth anticipated due to the development of the industrial areas near Elikatta and Mekaguda villages.

3. As per the field feasibility report, power system studies were conducted for the construction of the 400/220 kV Shadnagar GIS Substation in Rangareddy District, along with the associated transmission network. The proposals were submitted to the Central Electricity Authority (CEA) for approval vide letter dated 29.04.2025. Subsequently, the CEA accorded approval for the following works vide mail dated 21.07.2025.

- a) 400/220 kV Shadnagar GIS with 3x500 MVA, 400/220 kV ICTs and 1x125 MVAR Bus Reactor (utilizing the proposed 220 kV switching station at Elikatta as LV bus of proposed 400 kV Shadnagar SS).
- b) LILO of one circuit of 400 kV Suryapet – Kethireddypally QMDC line at 400/220 kV Shadnagar SS (5 km LILO Length).

4. Accordingly, 400kV Shadnagar GIS Scheme is formulated as approved by CEA and the scheme contemplates the following scopes of works as per the proposed 400kv Shadnagar Site conditions.

- a) Construction of 400/220kV Shadnagar GIS at Ranga Reddy District (excluding 500MVA ICTs and 125MVAR Bus Reactors).

5. After careful examination, TGTRANSCO accords Administrative Approval for Construction of 400/220kV Shadanagar GIS at Ranga Reddy District (without ICTs and Rectors)under 400/220kV Shadanagar GIS System Improvement Scheme at an estimated cost of Rs.279.86Crore and Interest During Construction (IDC) of Rs.16.79Crore.The total cost of the Scheme including IDC is Rs.296.65 Crore.

6. 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.2479, dated. 22.12.2025.

(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

Contd....3

Copy to:

The FA &CCA (Audit and Expenditure), TGTRANSCO, Vidyut Soudha, Hyderabad
The Chief Engineer/Comml.&RAC, TGTRANSCO, VidyutSoudha, Hyderabad.
The Chief Engineer/P&MM, TGTRANSCO, VidyutSoudha, Hyderabad
The Chief Engineer/Construction I & II, 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/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 Superintending Engineer/400kV/Const./Metro, TGTRANSCO, Hyderabad.
The Superintending Engineer/Schemes & Designs/Construction, 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.
PA 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

400kV Shadnagar GIS Scheme : Construction of 400/220kV Shadnagar GIS (without ICTs and Reactors)			
(Amount in Rs. Lakhs)			
Sl. No.	Description of Line/ Substation	Length/ No. of bays	Estimated Cost
A:400kV Transmission System:			
1)	400/220kV GIS at Shadanar, Rangareddy	3x500MVA +1x125MVAR	24,087.00
Total of A:			24,087.00
Communication Equipment			
2)	400kV Works		272.80
Total of B:			272.80
	Total (A+B) :		24,359.80
C:	Special T & P @ 1% :		243.60
	Total (A+B+C) :		24,603.40
	Total price		24,603.40
	Contingencies (3%) :		738.10
	Estt. and other charges @ 10.75% :		2,644.87
	Grand Total :		27,986.37
	or Say (Rs. in Crores) ::		279.86
	IDC in Rs. Crores		16.79
	Total price including IDC in Rs. Crores:		296.65
Sd/- CHIEF ENGINEER/400kV			