

TRANSMISSION CORPORATION OF TELANGANA LIMITED



TSTRANSCO- CE(400kV)- Reactor Scheme-III - Installation of 125MVAR Bus Reactors at Suryapet, Rayadurg, Kethireddypalli, Narsapur, Maheshwaram, Janagaon and Dindi Substations and installation of 80MVAR Bus Reactor, 63MVAR switchable line reactors at Asupaka SS - Administrative Approval - Accorded.

T.O.O.(CE-400kV) Ms.No.304

Dt:23.02.2019

Read the following:

PROCEEDINGS:

1. The Central Electricity Authority during the 1st meeting of Southern Region Standing Committee on Transmission (SRSCCT) and 41st meeting of Standing Committee on Power System Planning for Southern Region (SCPSPSR) have accorded approval for installation of Bus Reactors and Line Reactors at various 400kV Sub-Stations in order to limit the over voltages in the Grid.
2. Accordingly, Reactor Scheme-III is formulated for execution of Bus/Line reactors at 400kV Sub-stations of TSTRANSCO. The Scheme contemplates the following:
 - i. Erection of 2 Nos. 400kV, 125MVAR Bus Reactors at 400kV Dindi SS.
 - ii. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Rayadurg SS.
 - iii. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Narsapur SS.
 - iv. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Maheshwaram SS.
 - v. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Kethireddypalli SS.
 - vi. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Suryapet SS.
 - vii. Erection of 1 No 400kV, 125MVAR Bus Reactor at 400kV Janagaon SS.
 - viii. Erection of 1 No 400kV, 80MVAR Bus Reactor and 1 No.400kV, 63MVAR Switchable Line Reactor at 400kV Asupaka SS.
3. After careful examination, TSTRANSCO accords Administrative approval for “Reactor Scheme-III - Installation of Reactors at various 400kV Sub-Stations at an estimated cost of Rs. 228.87 Crores and Interest During Construction of Rs. 20.92 Crores. The total cost of the scheme including IDC is Rs. 249.79 Crores as per the Annexure enclosed.

4. Chief Engineer/400kV/Vidyut Soudha is hereby authorized to take up the Reactor works and shall provide the necessary budget as per the scope.
5. The scheme will be executed with capital funds of TSTRANSCO (or) Loan sanctioned by REC/PFC/any other Financial Agencies, in a phased manner and requirement of reactive power compensation, with the concurrence of SLDC, but not in one go.
6. This order is issued with the concurrence of the JMD/TSTRANSCO vide Regd. No.99, dated:07.01.2019.

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

Encl: Annexure

D.PRABHAKAR RAO
CHAIRMAN AND MANAGING DIRECTOR

To:

- 1) Chief Engineer/ 400kV/TSTRANSCO/ Vidyut Soudha, Hyderabad.

Copy to:

- 1) Executive Director/LIS/TSTRANSCO/VS/Hyd.
- 2) Executive Director (Finance)/ TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 3) Chief Engineer/ Power System/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 4) Chief Engineer/ Construction/TSTRANSCO/ Vidyut Soudha, Hyderabad.
- 5) Chief Engineer/ 400kV /Construction/TSTRANSCO/ Warangal.
- 6) Chief Engineer/Transmission / TSTRANSCO/Vidyut Soudha/Hyderabad.
- 7) Chief Engineer/ SLDC/TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 8) Chief Engineer/ Telecom /TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 9) Chief Engineer/ Civil /TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 10) Chief Engineer/Planning /TSTRANSCO/VS/Hyd.
- 11) Chief General Manager/HRD / TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 12) Chief Engineer/Metro Zone/ TSTRANSCO/ Hyderabad.
- 13) Chief Engineer/Rural Zone/ TSTRANSCO/ Hyderabad.
- 14) Chief Engineer/Warangal Zone/ TSTRANSCO/ Hyderabad.
- 15) Chief Engineer/ Karimnagar Zone /TSTRANSCO/ Karimnagar.
- 16) SE(T) to the CMD /TSTRANSCO/Vidyut Soudha/ Hyderabad.
- 17) DE(T) to the Director (Projects)/TSTRANSCO/ VS/ Hyd.
- 18) DE(T) to the Director (Transmission)/TSTRANSCO/ Vidyut Soudha/ Hyd.
- 19) ADE(T) to the Director (Lift Irrigation)/ TSTRANSCO/ VS/ Hyderabad.

- 20) AE(T) to the Director (Grid Operation)/ TSTRANSCO/VS/ Hyderabad.
- 21) P.S. to the JMD (Finance,Comml.,& HRD) /TSTRANSCO/VS/Hyd.
- 22) Superintending Engineer/Power System/TSTRANSCO/Vidyut Soudha/Hyd.
- 23) Superintending Engineer/400kV/Const./ Metro / Erragadda / Hyderabad.
- 24) Superintending Engineer/400kV/Const./ Rural / Erragadda / Hyderabad.
- 25) Superintending Engineer/400kV/Const./ TSTRANSCO Warangal.
- 26) Company Secretary/TSTRANSCO/ VidyutSoudha/Hyderabad.
- 27) Estate Officer/TSTRANSCO/ VidyutSoudha/Hyderabad.
- 28) Central Record Section - 2 copies.

Annexure

ABSTRACT ESTIMATE FOR REACTOR SCHEME -III			
Sl. No.	Item Description	Nos.	Amount in Lakhs
1	Erection of 400kV, 125MVAR Bus Reactor at 400kV Dindi SS	2	3,262.36
2	Erection of 400kV, 125MVAR Bus Reactor at 400kV Rayadurg SS	1	5,705.36
3	Erection of 400kV, 125MVAR Bus Reactor at 400kV Narsapur SS	1	1,631.18
4	Erection of 400kV, 125MVAR Bus Reactor at 400kV Maheshwaram SS	1	1,631.18
5	Erection of 400kV, 125MVAR Bus Reactor at 400kV Kethireddypally SS	1	1,631.18
6	Erection of 400kV, 125MVAR Bus Reactor at 400kV Suryapet SS	1	1,631.18
7	Erection of 400kV, 125MVAR Bus Reactor at 400kV Janagaon SS	1	1,631.18
8	Erection of 400kV, 80MVAR Bus Reactor at 400kV Asupaka SS	1	1,480.50
9	Erection of 400kV, 63MVAR Switchable Line Reactor at 400kV Asupaka SS	1	1,340.64
10	TOTAL (1-9)		19,944.75
a	Special T & P @ 1% : on (10)		199.45
b	Contingencies @ 3% on (10)		598.34
c	Establishment & Overhead charges @ 10.75 % on (10)		2,144.06
11	TOTAL (1-10)		22,886.61
		or SayRs.	228.87 Crs
		IDC :: Rs.	20.92Crs
		Total Scheme cost incl. IDC:: Rs.	249.79Crs

Sd/-

CHIEF ENGINEER /400kV