



सत्यमेव जयते



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development

CEA Case No. : TNG-150		
Induced Voltage (IV) calculation in respect of PTCC proposal for Diversion of 400 kV D/C Suryapet-Malkaram for formation of Baswapur reservoir at Bhongir (Diverted Length:10.507 km)- regd.		
S. No	Reference No.	Dated
(i)	TCTL: CE/400kV/SE-III/400kV/D1-A2/F.Baswapur/D/No.696/24	26.09.2024
(ii)	TCTL: Undertaking for Provisional PTCC Clearance	24.12.2025
(iii)	BSNL: SR-PTCC/Req No 110327/07	06.08.2025
(iv)	South Central Railway:SG.85/4/3/PTCC/SCR/2024-25/TS11 RTD	14.11.2024

The PTCC proposal submitted vide above reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of South Central Railway with respect to details furnished vide above reference (iv) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DET (PTCC), SZ has issued NOC vide reference (iii) above.

All Substations are existing therefore EPR calculations are not warranted.

Telecommunication details from Defense are pending and the power utility has shown urgency for charging of the line and requested for provisional PTCC approval vide above reference (ii). Taking above into consideration, necessary action regarding issuance of **provisional PTCC approval** for the subject cited transmission line may be taken under intimation to this office.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “*Deemed Energization approval*” shall be specified while issuing provisional RAC.

Encl.: As above

Chief Engineer,

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 2 nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5 th Block, 9 th Main, 47 th Cross, Bangalore-560041	
2.	PCSTE/SCR	O/o Principal Chief Signal & Telecom Engineer 7th Floor, Rail Nilayam, Secunderabad-500025	
3.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for issuance of final RAC.
4.	Chief Engineer /400kV	TSTRANSCO, Vidyut Soudha, Hyderabad-500082	Copy for information

ANNEXURE-I

CEA Case No.: TNG-150 Name of the Power line: Diversion of 400 kV D/C Suryapet-Malkaram for formation of Baswapur reservoir at Bhongir			Map Scale : 1 cm= 500 m Total Diverted Length : 10.507 km S.R. Value : 25000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

SCR Letter No: SG.85/4/3/PTCC/SCR/2024-25/TS11 RTD Dated 14.11.2024					
1.	Pagidipalli (PGDP) – Bhongir (BG)	1.5	0.0002	28001	6
2.	Bhongir (BG) – Yadadri (YADD)	3	0.0065	27599	179
3.	Yadadri (YADD) – Wangapalli(WP)	1.2	0.0001	27010	3