



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

CEA Case No. : AND-727						
Induced Voltage (IV) calculation in respect of PTCC proposal for erection of 220KV DC line from existing Pattiseema SS to 400/220/11KV Guddigudem SS (22.432 km) - regd.						
S. No	Reference No.	Dated				
(i)	TCAPL: CE/Projects/SE(220&132kV)/EE-3/DEE 3/F.Polavaram/DSN/D.No.131/2023	04.05.2023				
(ii)	BSNL: SR-PTCC/SAP4940/5	30.10.2023				
(iii)	South Central Railway: SG.85/4/3/PTCC/SCR/AP/2023-24/6 RC	22.05.2023				
(iv)	Defense: B/46937/Sigs 7(b)/3374	06.09.2023				

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of BSNL with respect to details furnished vide above reference (ii) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I.

GM (S&T), South Central Railway and DG Signals, MoD (enclosed as Annexure II) have issued No Objection Certificate (NOC) vide reference (iii) and (iv) respectively.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office. 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.	Chief Engineer Projects	APTransco, Vidyut Soudha, Gunadala,Vijayawada-520004,Andhra Pradesh

I/33229/2024

File No.CEA-PS-17-11(14)/7/2024-PCD Division

ANNEXURE-I

		Map Scale : 1 cm= 500 m				
CEA Case No.: AND-727 Name of the Power line: Induced Voltage (IV) calculation in respect of PTCC proposal for erection of 220KV DC line from 220KV Pattiseema SS to 400/220/11KV Guddigudem SS (22.432 km) - regd.						
	BSNL Letter No. SR-PTC	CC/SAP4940/5 Da	ate: 30.10.2023			
GOPALAI	PURAM Telephone Exchange					
1	Gopalapuram Exg to C1		IV less than 430V			
2	Gopalapuram Exg to C2	4.4	0.0167	28001	467	
3	Gopalapuram Exg to C4		IV less than 430V			
4	Gopalapuram Exg to C6		IV less than 430V			
Vegeswara	puram Telephone Exchange	I				
	Vegeswarapuram Exg to C1-C2		IV less than 430V			
	Vegeswarapuram Exg to C3-C4		IV less than 430V			
	Vegeswarapuram Exg to C5-C6		IV less than 430V			
	Vegeswarapuram Exg to C7-C8		IV less than 430V			
	Vegeswarapuram Exg to C9-C10		IV less than 430V			
Polavaram	Telephone Exchange					
	Polavaram Exg to C1-C2		Out of parallelism			
	Polavaram Exg to C3-C4		Out of parallelism			
	Polavaram Exg to C5-C6		Out of parallelism			