

I/33228/2024



सत्यमेव जयते

**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-722		
Induced Voltage (IV) calculation in respect of PTCC proposal for erection of 220 kV SC/DC line from 220/11KV Krishnagiri SS to 220/11KV Nansuralla in Kurnool district(23.94 km) - regd.		
S. No	Reference No.	Dated
(i)	TCAPL: CE/Projects/SE-220&132/EE-1/DEE-4/F.KRIS-NANS/ /D.No.150/22	26.12.2022
(ii)	BSNL: SR-PTCC/SAP4781/06	21.03.2023
(iii)	South Central Railway: SG.85/4/3/ PTCC/SCR/2022-23/AP-15 RTD	27.01.2023
(iv)	Defense: B/46937/Sigs 7(b)/3397	06.09.2023

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

DG Signals, Mod and have issued No Objection Certificate (NOC) vide reference (iv) (enclosed as Annexure III)

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 <sup>nd</sup> Floor, Sanchar Complex, WMS Compound, Jayanagar 5 <sup>th</sup> Block, 9 <sup>th</sup> Main, 47 <sup>th</sup> Cross, Bangalore-560041	
2.	GM (S&T)	South Central Railway, Office of Principal Chief Signal & Telecom Engineer, 7 <sup>th</sup> Floor, Rail Nilayam, Secunderabad – 500 025	
3.	Chief Engineer Projects	APTransco, Vidyut Soudha, Gunadala, Vijayawada-520004, Andhra Pradesh	

I/33228/2024

**ANNEXURE-I**

<b>CEA Case No.:</b> AND-722 220 kV SC/DC line from 220/11KV Krishnagiri SS to 220/11KV Nansuralla in Kurnool district(23.94 km) - regd.			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 23.94 km <b>S.R. Value</b> : 50000 ohm-cm		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
<b>BSNL Letter No.:</b> SR-PTCC/SAP4781/06 Date: 21.03.2023					
1	Kamavarapukota Exg to DP 01		IV less than 430V		
2	Kamavarapukota Exg to DP 02		IV less than 430V		
3.	Kamavarapukota Exg to DP 03		IV less than 430V		

I/33228/2024

ANNEXURE-II

<b>CEA Case No.:</b> AND-722 220 kV SC/DC line from 220/11KV Krishnagiri SS to 220/11KV Nansuralla in Kurnool district(23.94 km) - regd.			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 23.94 km <b>S.R. Value</b> : 50000 ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>South Central Railway Letter No.</b> : SG.85/4/3/ PTCC/SCR/2022-23/AP-15 RTD Date: 27.01.2023					
1	Ullindakonda(UKD) - Veldurti(VDI)		Out of parallelism		
2	Veldurti(VDI) - Bogolu(BVO)		Out of parallelism		