



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
Division

CEA Case No. : RAJ-718		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Kalisindh TPS – Bhawanimandi Transmission Line by utilizing part section of existing 220 kV Bhawanimandi to T-off point of 220 kV Kalisindh TPS- Jhalawar line) [Length-2.001 km] - Regd.		
S. No	Reference No.	Dated
(i)	RVPN/SE(QC-INSP&Montg.)/XEN (PTCC)/JPR/F.1974-A-00158	27.07.2023
(ii)	RVPN: e-Mail	05.07.2024
(iii)	BSNL: DET/PTCC/ND/DV-10226/Raj-1426/2023-2024/	16.12.2023
(iv)	West Central Railway: WCR-N/HQ/120/PTCC/CORR/T-50-Pt-III,Case-385	06.11.2023
(v)	Defense: B/46937/Sigs7(b)/3472	15.09.2023

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of West 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 West Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DET, BSNL NZ and DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (iii) & (v) respectively.

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line might be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o GM (North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath, New Delhi	
2.	GM (S&T)	West Central Railway Jabalpur	
3.	Superintending Engineer (QC, Inspection & Monitoring),	RVPNL Room No. 320, Vidyut Bhawan, Jyoti Nagar, Jaipur	

ANNEXURE-I

CEA Case No.: RAJ-718			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV S/C Kalisindh TPS – Bhawanimandi Transmission Line by utilizing part section of existing 220 kV Bhawanimandi to T-off point of 220 kV Kalisindh TPS- Jhalawar line)			Total Length : 2.001km		
			S.R. Value : 7500 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
West Central Railway Letter No: WCR-N/HQ/120/PTCC/CORR/T-50-Pt-III,Case-385 Dated 06.11.2023					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Julmi R/s – Jhalawar City R/s		-Out of Parallelism-		
2	Jhalawar City R/s – Jhalarapatan R/s		-Out of Parallelism-		