

I/29958/2023



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. : UP-630		
Induced Voltage (IV) calculation for PTCC proposal of Diversion work of 400 kV S/C Sarojini Nagar-Unnao Transmission Line due to Defense Corridor [Length-4 km]-Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 1064/ETD/400kVSCSarojiniNagar-UnnaoLine	15.07.2023 (received on 23.08.2023)
(ii)	BSNL: DET/PTCC/ND/DV-10238/UP-1134/2023-24	21.08.2023
(iii)	Northern Railway: 342-SIG/1/PTCC/2021-22/06/02	05.06.2023
(iv)	Defense: B/4693/Sigs7(b)/3377	21.07.2023

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

Director

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o PGM(North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath New Delhi-110001	
2.	GM (S&T)	Northern Railway, Baroda House New Delhi	Annexure-I
4.	Ex. Engineer UPPTCL	Electricity Transmission Division-I Gomti Nagar, Lucknow	Copy for information.

I/29958/2023

ANNEXURE-I

CEA Case No.: UP-630			Map Scale : 1 cm= 500 m		
Name of the Power line: Diversion work of 400 kV S/C Sarojini Nagar-Unnao Transmission Line due to Defense Corridor			Total Length : 4 km		
			S.R. Value : 20000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Northern Railway Letter No.: 342-SIG/1/PTCC/2021-22/06/02 Dated 05.06.2023					
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>Unnao-Lucknow Section</u>					
1	Jaitipur R/s to Harauni R/s	-Out of Parallelism-			
2	Harauni R/s to Piparsand R/s	3.5	0.0174	17800	310
3	Piparsand R/s to Amausi R/s	-Out of Parallelism-			