



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-615		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Line from 400 kV Basti S/S to Tower No 180 of existing 220 kV Sohawal-Gonda Transmission Line (Up to Katra-Gonda) [Length-34.44 km] -Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 363/ETD/(GND)	27.03.2023
(ii)	UPPTCL: e-mail	29.09.2023
(iii)	BSNL: DET/PTCC/ND/DV-10251/UP-1141/2023-24	29.09.2023
(iv)	North Eastern Railway: NER-HQ0SndT (TELE) /31/2020-O/O PCSTE/HQ/NER	05.09.2023
(v)	Defense: B/4693/Sigs7 (b) /3298	21.07.2023

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of North Eastern Railway has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of North Eastern 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 (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

S. M. S.
29/9/23

Chief Engineer

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)	North Eastern Railway Gorakhpur	Annexure-I
4.	Ex. Engineer UPPTCL	Electricity Transmission Division-I Gonda, U.P	Copy for information.

ANNEXURE-I

I/30664/2023

CEA No.: UP-615

Name of the Power line: 220 kV S/C Line from 400 kV Basti S/S to Tower No 180 of existing 220 kV Sohawal-Gonda Transmission Line (Up to Katra-Gonda).

Map Scale : 1 cm= 500 m**Total Length** : 34.44 km**S.R. Value** : 15000 Ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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North Eastern Railway Letter No.: NER-HQ0SndT(TELE)/31/2020-O/O PCSTE/HQ/NER Dated 05.09.2023

Affected Blocks & Telecom Circuits Details

Unnao-Lucknow Section

1	Ayodhya R/s to Katra R/s	-Out of Parallelism-
2	Katra R/s to Tikri R/s	-Out of Parallelism-
3	Parsatiwari R/s to Babhnan R/s	-Out of Parallelism-
4	Babhnan R/s to Gaur R/s	-Out of Parallelism-