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

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CEA Case No. : UP-626		
Induced Voltage (IV) calculation for PTCC proposal of Diversion of 1.40 km of 220 kV Sarnath – Sahupuri S/C Line between Tower No 33 to 37. [Length-1.40 km]-Regd.		
S. No	**Reference No.**	**Dated**
(i)	UPPTCL: 1139/ETD-(GZP)	09.08.2023
(ii)	UPPTCL: 1490/ETD-(GZP)	07.10.2023
(iii)	BSNL: DET/PTCC/ND/DV-10229/UP-1127/2023-24	11.08.2023
(iv)	North Eastern Railway: NER-HQ0SndT(TELE)/31/2020-O/O PCSTE/HQ/NER	02.08.2023
(v)	Defense: B/4693/Sigs7(b)/3452	29.09.2023

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

13.10.2023
(मनोज जैन)
Director

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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 Ghazipur, U.P	Copy for information.

ANNEXURE-I

CEA Case No.: UP-626 **Name of the Power line**: Diversion of 1.40 km of 220 kV Sarnath – Sahupuri S/C Line between Tower No 33 to 37.			**Map Scale** : 1 cm= 500 m **Total Length** : 19.17 km **S.R. Value** : 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.**
North Eastern Railway Letter No.: NER-HQ0SndT(TELE)/31/2020-O/O PCSTE/HQ/NER Dated 02.08.2023					
Affected Blocks & Telecom Circuits Details					
Unnao-Lucknow Section					
1	Varanasi R/s to Rajwari R/s	1.75	0.0028	14850	42