



सत्यमेव जयते


 एकुए कुटुम्बम्
 ONE EARTH - ONE FAMILY - ONE FUTURE

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-628

Induced Voltage (IV) calculation for PTCC proposal of Diversion of 1.005 km of 400 kV Anpara-Sarnath (L-3) & Sarnath-Azamgarh D/C Line between Tower No 19 to 22. [Length-1.005 km]-Regd.

S. No	Reference No.	Dated
(i)	UPPTCL: 1139/ETD-(GZP)	09.08.2023
(ii)	UPPTCL: 1491/ETD-(GZP)	07.10.2023
(iii)	BSNL: DET/PTCC/ND/DV-10231/UP-1129/2023-24	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)/3450	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

emt
 13.10.2023
 (मन्. जं. वि.)
 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)	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-628		Map Scale : 1 cm= 500 m			
Name of the Power line: Diversion of 1.005 km of 400 kV Anpara-Sarnath (L-3) & Sarnath-Azamgarh D/C Line between Tower No 19 to 22.		Total Length : 1.005 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.: <u>NER-HQ0SndT(TELE)/31/2020-O/O PCSTE/HQ/NER</u> Dated 02.08.2023					
<u>Affected Blocks & Telecom Circuits Details</u>					
400 kV Anpara-Sarnath (L-3) D/C Transmission Line (Total Length- 157.65 km)					
<u>Unnao-Lucknow Section</u>					
1	Varanasi R/s to Rajwari R/s	1.0	0.0004	26500	11
400 kV Sarnath Azamgarh D/C Transmission Line (Total Length- 101.07 km)					
<u>Unnao-Lucknow Section</u>					
1	Varanasi R/s to Rajwari R/s	1.0	0.0007	25560	18