



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. : UP-689		
Induced Voltage (IV) calculation for PTCC proposal of 765 kV S/C Mainpuri - Bara Transmission Line [Length- 385 km] - Regd.		
S. No	Reference No.	Dated
(i)	SEUPPTCL: SEUPPTCL/LKO/25/1453	25.11.2023
(ii)	SEUPPTCL: Undertaking	17.12.2025
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10637/UP-1252/2025-26	19.12.2025
(iv)	North Central Railway: NCR/S&T/2074/Telecom/PTCC(Part-2)	30.12.2025

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of North 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 North Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

As per the Telecom Details submitted by BSNL vide above reference (iii), there is no copper cable or Armored OFC within 8 km boundary and hence IV computation is not done.

Telecommunication details from Defense are still pending and vide above reference (ii), transmission utility has shown urgency for charging of line and has requested for provisional PTCC approval. Taking above into consideration, necessary action for issuance of provisional PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “*Deemed Energization approval*” shall be specified while issuing provisional RAC.

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)	HQ Office, S&T Branch North Central Railway, Prayagraj	
3.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for issuance of final RAC.
4.	Project Manager M/s South East UP Power Transmission Ltd.	409, 4 th Floor, Shalimar Titanium Gomati Nagar, Lucknow	Copy for information

ANNEXURE-I

CEA Case No.: UP-689 Name of the Power line: 765 kV S/C Mainpuri - Bara Transmission Line			Map Scale : 1 cm= 500 m Total Length : 385 km 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.
North Central Railway: NCR/S&T/2074/Telecom/PTCC(Part-2)			Dated 30.12.2025		
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Madaraha R/s to Lohgara R/s	-Out of Parallelism-			
2	Lohgara R/s to Bevra R/s	3.0	0.0022	38500	85
3	Bevra R/s to Sankargarh R/s	4.0	0.0043	37000	111
4	Sankargarh R/s to Majhiari R/s	-Out of Parallelism-			
5	Maitha R/s to Rura R/s	-Out of Parallelism-			
6	Rura R/s to Ambiyapur R/s	-Out of Parallelism-			
7	Ambiyapur R/s to Jinjhak R/s	5.0	0.0023	32500	75
8	Jinjhak R/s to Kanchausi R/s	3.5	0.0023	31500	73
9	Kosma R/s to Mainpuri R/s	4.0	0.0031	30000	93
10	Mainpuri R/s to Bhongaon R/s	-Out of Parallelism-			
11	Manpuri R/s to Karhal R/s	-Out of Parallelism-			
12	Lalpur R/s to Paman R/s	2.0	0.0015	28000	42
13	Paman R/s to Rasalpur Gogamau R/s	3.5	0.0021	27500	58
14	Rasalpur Gogamau R/s to Bhimsen R/s	-Out of Parallelism-			
15	Bhimsen R/s to Kathara Road R/s	-Out of Parallelism-			
16	Kathara Road R/s to Patara R/s	2.5	0.0022	26000	57