



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-565		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV D/C Badhaikalan-Shamli Transmission Line [Length-33.464 km] - Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 1184/ETD/MZN/PTCC	12.08.2025
(ii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10575/UP-1239/2025-26	01.08.2025
(iii)	Northern Railway: 342-SIG/1/PTCC/2021-22/06/01	22.06.2021
(iv)	Defense: B/46937/Sigs7(b)/2371	31.03.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on block & telecom circuits of Northern Railway with respect to details furnished vide above references (iii) has been computed. The voltages likely to be induced on paralleling block & 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 for issuance of 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 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)	Northern Railway Baroda House, New Delhi	
3.	Executive Engineer UPPTCL	ETD - UPPTCL 132 kV S/s Bhopa Road, Muzaffarnagar	Copy for information.

ANNEXURE-I

CEA Case No.: UP-565			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV D/C Badhaikalan-Shamli Transmission Line.			Total Length : 33.464 km		
			S.R. Value : 10000 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: 342-SIG/1/PTCC/2021-22/06/01			Dated 22.06.2021		
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>Noli – Shamli Section</u>					
1	Shamli R/s to Hind R/s	-Out of Parallelism-			
2	Hind R/s to Thana Bhawan R/s	-Out of Parallelism-			
3	Thana Bhawan R/s to Nanauta R/s	-Out of Parallelism-			
<u>Meerut City – Saharanpur Section</u>					
1	Muzaffarnagar R/s to Baman Heri R/s	-Out of Parallelism-			
2	Baman Heri R/s to Rohana R/s	2.5	0.0002	22000	44
3	Rohana R/s to Deoband R/s	-Out of Parallelism-			
4	Deoband R/s to Talheri Buzurg R/s	-Out of Parallelism-			