

I/32298/2023



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-637		
<b>Induced Voltage computation for PTCC proposal of Loop In circuit of LILO of 765 kV Ghatampur-Hapur Transmission Line at 765 kV Rampur GIS S/S [Length-115.316 km] - Regd .</b>		
S. No	Reference No .	Dated
(i)	PGYTL : NRTS-III/Sambhal/PGYTLTBCBProject/PTCC/LoopIn/348	28.01.2023
(ii)	PGYTL e-Mail	20.11.2023
(iii)	BSNL : DET/PTCC/ND/DV-10273/UP-1149/2023-24	08.12 . 2023
(iv)	Northern Railway : 342-SIG/1/PTCC/2023-24/10/03	30 . 10 . 2023
(v)	Defense : B/46937/Sigs7 (b) /3222	07.03.2023

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of Northern 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 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 (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

**Director**

**To,**

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o PGM (North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath, New Delhi	
2.	GM (S&T)	Northern Railway, HQ Office Baroda House, Delhi	
3.	Chief Manager PGYTL	220/132 kV S/s PGYTL, Chandausi, Sambhal	Copy for information.

I/32298/2023

ANNEXURE-I

CEA Case No.: UP-637			Map Scale : 1 cm= 500 m		
Name of the Power line: Loop In circuit of LILO of 765 kV Ghatampur-Hapur Transmission Line at 765 kV Rampur GIS S/S.			Total Length : 230 km		
			S.R. Value : 15,000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>Northern Railway Letter No: 342-SIG/1/PTCC/2023-24/10/03 Dated 30.10.2023</b>					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
<b>Moradabad-Chandausi Section</b>					
1	Chandausi R/s to Gumthal R/s	-Out of Parallelism-			
<b>Aligarh-Bareilly Section</b>					
1	Bahoj R/s to Chandausi R/s	-Out of Parallelism-			
2	Chandausi R/s to Sisarka R/s	-Out of Parallelism-			
3	Sisarka R/s to Asafpur R/s	2.0	0.0022	27600	61
4	Asafpur R/s to Dabtara R/s	-Out of Parallelism-			
<b>Moradabad-Shahjahanpur Section</b>					
1	Shahzad Nagar R/s to Dhamora R/s	-Out of Parallelism-			
2	Dhamora R/s to Duganpur R/s	4.0	0.0056	33520	188
3	Duganpur R/s to Milak R/s	1.6	0.0005	33150	17
4	Milak R/s to Nagaria Sadat R/s	-Out of Parallelism-			