

I/25585/2023



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-602		
PTCC approval for LILO of 220 kV DC Muzzafarnagar-Modipuram transmission line at 220/132/33 kV Khatauli S/s-Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 1444/ETD/MZN/PTCC	11.11.2022
(ii)	UPPTCL e-mail	05.01.2023
(iii)	BSNL: DET/PTCC/ND/DV-10153/UP-1099/2022-23	22.11.2022
(iv)	Northern Railway: 342-SIG/1/PTCC/2022-23/11/02	17.11.2022

The PTCC proposal submitted vide reference (i) 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. BSNL has issued No Objection Certificate (NOC) vide reference (iii).

EPR zone for the proposed substation is mentioned below:

Name of proposed substation	Half diagonal distance, D/2 (mts)	Fault Current I (kA)	Resistance of earth mat, R (onhs)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220/132/33 kV Khatauli S/s	126	18740	0.19	917	564	NA	NA

Telecommunication details from Defense are pending and the power authority has shown urgency for charging of the line and requested for provisional PTCC approval vide above reference (ii). Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Encl.: As above

**Chief Engineer**

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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)	Northern Railway, Baroda House New Delhi	Annexure-I
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.	Exec. Engineer UPPTCL	Electricity Transmission Division Near Evan Hospital, Muzaffarnagar	Copy for information.

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ANNEXURE-I

<b>CEA Case No.:</b> UP-602		<b>Map Scale</b> : 1 cm= 500 m			
<b>Name of the Power line:</b> LILO of 220 kV DC Muzaffarnagar-Modipuram transmission line at 220/132/33 kV Khatauli S/s.		<b>Total Length</b> : 1.07 km			
		<b>S.R. Value</b> : 5000 Ohm-cm			
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
<b>Northern Railway Letter No.:</b> 342-SIG/1/PTCC/2022-23/11/02 Dated 17.11.2022					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Baman Heri R/s to Muzaffarnagar R/s	-Out of Parallelism-			
2	Muzaffarnagar R/s to Jarauda Nara R/s	-Out of Parallelism-			
3	Jarauda Nara R/s to Mansurpur R/s	-Out of Parallelism-			
4	Mansurpur R/s to Khatauli R/s	0.7	0.0006	18700	11
5	Khatauli R/s to Sakhoti Tanda R/s	-Out of Parallelism-			