

I/25569/2023



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

CEA Case No. : UP-605		
PTCC approval for LILO of 400 kV DC Bareilly- Moradabad transmission line at 765/400/220 kV GIS Rampur S/s-Regd.		
S. No	Reference No.	Dated
(i)	PGYTL: NRTS-III/Sambhal/PGYTL/TBCBProject/PTCCC/240	10.12.2022
(ii)	PGYTL e-mail	05.01.2023
(iii)	PGYTL e-mail	05.01.2023
(iv)	BSNL: DET/PTCC/ND/DV-10160/UP-1103/2022-23	28.12.2022
(v)	Northern Railway: 342-SIG/1/PTCC/2022-23/12/03	29.12.2022

The PTCC proposal submitted vide reference (i) and (ii) has been examined. The LF induction on Block and Telecom circuits of Northern Railway with respect to details furnished vide above reference (v) 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 (NZ), BSNL vide reference (iv) has issued No Objection Certificate (NOC).

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 (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
765/400/220 kV Rampur	214	63	0.05	1354	823	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 (iii). 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.	Manager (TBCB Proj.) PGYTL	400/220/132 kV S/S Village-Pathakpur Thana-Bahjoi, Chandausi Dist. Sambhal	Copy for information.

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ANNEXURE-I

CEA Case No.: UP-605			Map Scale : 1 cm= 500 m		
Name of the Power line: LILO of 400 kV DC Bareilly- Moradabad transmission line at 765/400/220 kV GIS Rampur S/s.			Total Length : 2.705 km		
			S.R. Value : 1,00,000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Northern Railway Letter No.: 342-SIG/1/PTCC/2022-23/12/03 Dated 29.12.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Mundha Pande R/s to Rampur R/s		-Out of Parallelism-		
2	Rampur R/s to Shahzadnagar R/s		-Out of Parallelism-		
3	Shahzadnagar R/s to Dhamora R/s		-Out of Parallelism-		
4	Dhamora R/s to Duganpur R/s		-Out of Parallelism-		
5	Duganpur R/s to Milak R/s		-Out of Parallelism-		
6	Milak R/s to Nagaria Sadat R/s		-Out of Parallelism-		
7	Nagaria Sadat R/s to Dhaneta R/s		-Out of Parallelism-		