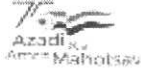


I/28898/2023



सत्यमेव जयते

भारत 2023
एक पृथक्
ONE EARTH - ONE FAMILY - ONE FUTURE

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-621		
Induced Voltage (IV) calculation for PTCC approval for Diversion of 220 kV Sarojini Nagar-Gomti Nagar/ 220 kV PGCIL (Raebareli)- C.G City D/C transmission line [Length of diversion portion - 10.2 km]-Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 524/ETD-II(L)/NHAI	05.04.2023
(ii)	UPPTCL: 043/ETD-II(L)/NHAI	01.07.2023
(iii)	BSNL: DET/PTCC/ND/DV-10208/UP-1121/2023-24	08.06.2023
(iv)	Northern Railway: 342-SIG/I/PTCC/2023-24/04/03	24.04.2023

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 due to 220 kV Sarojini Nagar-Gomti Nagar D/C transmission line and 220 kV PGCIL (Raebareli)- C.G City D/C transmission line are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered. BSNL has issued No Objection Certificate (NOC) vide reference (iii).

Telecommunication details from Defense are pending and the power utility 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

Suman Kumar Maharana
13/7/23
(Suman Kumar Maharana)
Chief Engineer

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, Annexure-II
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.	Executive Engineer UPPTCL	ETD-II, Room No: 211-216 Pareshan Bhawan, Gomti Nagar Lucknow	Copy for information.

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ANNEXURE-I

CEA Case No.: UP-621			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV Sarojini Nagar-Gomti Nagar D/C transmission line			Total Length : 45.5 km		
			S.R. Value : 20,000 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/2023-24/04/03 Dated 24.04.2023					
Affected Blocks & Telecom Circuits Details					
1	Utraitia R/s to Bakkas R/s	4.5	0.00096	21600	21
2	Bakkas R/s to Anupganj R/s	2.5	0.0083	21250	176
3	Anupganj R/s to Rahmatnagar R/s	-Out of Parallelism-			
4	Rahmatnagar R/s to Chhandrauli R/s	-Out of Parallelism-			
5	Utraita R/s to Mohanlalganj R/s	2	0.00046	17650	8
6	Mohanlalganj R/s to Kankaha R/s	-Out of Parallelism-			
7	Kankaha R/s to Nigohan R/s	-Out of Parallelism-			

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ANNEXURE-II

CEA Case No.: UP-621			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV PGCIL (Raebareli)- C.G City D/C transmission line			Total Length : 82.07 km		
			S.R. Value : 20,000 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/2023-24/04.03 Dated 24.04.2023					
Affected Blocks & Telecom Circuits Details					
1	Utraitia R/s to Bakkas R/s	4.5	0.00096	25800	25
2	Bakkas R/s to Anupganj R/s	2.5	0.0083	26450	220
3	Anupganj R/s to Rahmatnagar R/s	-Out of Parallelism-			
4	Rahmatnagar R/s to Chhandrauli R/s	-Out of Parallelism-			
5	Utraita R/s to Mohanlalganj R/s	2	0.00046	25650	12
6	Mohanlalganj R/s to Kankaha R/s	-Out of Parallelism-			
7	Kankaha R/s to Nigohan R/s	-Out of Parallelism-			