





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-600 Induced Voltage (IV) calculation for PTCC proposal of 220 kV D/C Shajahanpur (400) (PG)-Gola(220) Transmission Line [Length-57.57km]-Regd.								
						S. No	Reference No.	Dated
						(i)	UPPTCL: 668/ETD(LMP)/SPN(400PG)-Gola Line	24.05.2022
(ii)	UPPTCL: 892/विoपारेoखo(लखीo)	23.09.2023						
(iii)	BSNL: DET/PTCC/ND/DV-10120/UP-1082/2023-24	17.07.2023						
(iv)	Northern Railway: 342-SIG/1/PTCC/2023-24/09/02	25.09.2023						
(v)	North Eastern Railway: NER-HQ0SndT(TELE)/31/2020-O/O PCSTE/HQ/NER	13.01.2023						
(vi)	Defense: B/4693/Sigs7(b)/2968	20.02.2023						

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of Northern Railway 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, Dy.CSTE North Eastern Railway and DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (iii), (v) & (vi) 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

Chief Engineer

File No.CEA-PS-17-11(11)/62/2022-PCD Division

1/30663/2023

Divisional BSNL, O/o PGM(North), QA & Inspection Engineer (PTCC), Circle Northern Zone D-Tax Building, Eastern Court, Janpath New Delhi-110001 Northern Railway, Baroda House GM (S&T) Annexure-I 2. New Delhi Electricity Transmission Division-I Copy for Ex. Engineer 4. Lakhimpur-Kheri, U.P information. **UPPTCL**

ANNEXURE-I

CEA Case No.: UP-600 Name of the Power line: 220 kV D/C Shajahanpur (400) (PG)-Gola(220) Transmission Line.			Map Scale	1 cm= 500 m	
			Total Length: 57.57km S.R. Value: 15000 Ohm-cm		
ı ransm	ission Line.		S.N. value : 1	Jood Ollill-Cill	
S.No.	Telecom. Details	Parallelism Coupling	Mutual	Effective Fault current in Amps.	I.V in Volts.
			Coupling		
			in Ohms.		
	Lucknow Section				
1	Roza R/s to Pandit Ram Prasad Bsimil R/s	-Out of Parallelism-			
2	Pandit Ram Prasad Bsimil R/s to Kahilia R/s	-Out of Parallelism-			
3	Vahilia D/a ta Aisawan D/a	-Out of Parallelism-			
	Kahilia R/s to Aigawan R/s		-Out of Fai	allelism-	V - 1
4	Banthra R/s to Shajahanpur R/s		-Out of Par		
5			The second secon	allelism-	
	Banthra R/s to Shajahanpur R/s	3.5	-Out of Par	allelism-	57
5	Banthra R/s to Shajahanpur R/s Shajahanpur R/s to Roza R/s	3.5	-Out of Par	rallelism-	57 13