





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-601						
PTCC approval for LILO of ckt-II of 220 kV Parichha TPS – Orai at 220 kV Moth Substation [5.714 km]-Regd.						
S. No	Reference No.	Dated				
(i)	UPPTCL: 1874/ETD (J)	27.08.2022				
(ii)	UPPTCL e-mail	15.02.2023				
(iii)	BSNL: DET/PTCC/ND/DV-10125/UP-1085/2022-23	14.11.2022				
(iv)	North Central Railway: NCR/S&T/2074/Telecom/PTCC(Part-1)	16.09.2022				
(v)	Defense: B/4693/Sigs7(b)/2847	11.07.2022				

The PTCC proposal submitted vide reference (i) and (ii) has been examined. The LF induction on Block and Telecom circuits of BSNL and North Central Railway with respect to details furnished vide above reference (iii) & (iv) respectively have been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL and North Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered. DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (v).

EPR zone for the proposed substation is mentioned below:

El it zone for the proposed substanton is mentioned below.							
Name of the 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 7kV	d (mts) at 10kV
220 kV Moth	137.1	24	0.015	NA	NA	NA	NA

As per the Telecom Details submitted by BSNL vide above reference (iii), no telephone exchange of BSNL is falling within the EPR zone of proposed 220 kV Moth Substation.

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

I/26466/2023^{To},

1.	Divisional	BSNL, O/o PGM(North), QA & Inspection	Annexure-I	
	Engineer	Circle		
	(PTCC),	D-Tax Building, Eastern Court, Janpath		
	Northern Zone	New Delhi-110001		
	GM (S&T)	North Central Railway, HQ's Office (S&T	Annexure-II	
2.		Branch), Ganga Parisar, Subedarganj,		
		Allahabad 211 015		
4	Ex. Engineer	Electricity Transmission Division	Copy	for
4.	UPPTCL	Jhansi	information.	

ANNEXURE-I

Name o	Case No.: UP-601 of the Power line: LILO of ckt-II of 220 kV 220 kV Moth Substation	Map Scale : 1 cm= 500 m Total Length : 5.714 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.		
BSNL Letter No.: DET/PTCC/ND/DV-10125/UP-1085/2022-23 Dated 14.11.2022							
Affected Blocks & Telecom Circuits Details							
Moth Telephone Exchange							
1	Moth Exchange to Samthar Tiraha	0.2	0.00239	23858	57		
2	Samthar Tiraha to Savitri Chauraha	0.95	0.015812	22858	361		

ANNEXURE-II

Name o	ase No.: UP-601 of the Power line: LILO of ckt-II of 220 kV I 220 kV Moth Substation	Map Scale : 1 cm= 500 m Total Length : 5.714 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.	
North Central Railway Letter: NCR/S&T/2074/Telecom/PTCC(Part-1) Dated 16.09.2022						
Affected Blocks & Telecom Circuits Details						
1	Nandkhash – Moth	5.15	0.02014	19358	390	
2	Moth to Erich Road	Out of parallelism				