

I/26003/2023



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-597		
PTCC approval for LILO of 220 kV S/C Modipuram-Faridnagar transmission line at 220 kV Modipuram-II S/S.-Regarding .		
S. No	Reference No.	Dated
(i)	UPPTCL: 135/E.T.D/MRT/220kV S/CModipuram-Faridnagar	14.06.2022
(ii)	UPPTCL: 1873/E.T.D/MRT/220MDP-FRD@MDP-II	24.08.2022
(iii)	UPPTCL: 2768/E.T.D/MRT/220MDP-FRD@MDP-II	24.12.2022
(iv)	BSNL: DET/PTCC/ND/DV-10109/UP-1076/2022-2023	22.08.2022
(v)	Northern Railway: 342-SIG/1/PTCC/2022-23/06/04	23.06.2022
(vi)	Defense: B/46937/ Sigs 7(b)/2931	26.09.2022

The PTCC proposal submitted vide reference (i), (ii) & (iii) has been examined. The LF induction on block & telecom circuits of Northern Railway with respect to details furnished vide above references (v) have been computed. The voltages likely to be induced on paralleling block & telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. Screening factor as applicable have been considered.

DET (PTCC), NZ, BSNL and DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (iv) & (vi) respectively.

EPR zone for proposed S/S 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 Modipuram-II	109	18.6	0.098	353	197	N.A	N.A

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

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Digitally Signed by Upendra Kumar

Date: 01-02-2023 14:52:02

Reason: Approved

File No.CEA-PS-17-11(11)/53/2022-PCD Division

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To,

1.	Divisional Engineer (PTCC), Northern Zone	O/o PGM(N), QA & Inspection Circle D-Tax Building, Eastern Court Janpath, New Delhi	
2.	GM (S&T) Northern Zone	Norther Railway HQ, Baroda House New Delhi	
3.	Exec. Engr. UPPTCL	Pareshan Bhawan, IInd Floor 130-D Victoria Park, Meerut	Copy for information

3/2023

ANNEXURE-I

CEA Case No.: UP-597			Map Scale : 1 cm= 500 m		
Name of the Power line: LILO of 220 kV S/C Modipuram-Faridnagar transmission line at 220 kV Modipuram-II S/S.			Total Length : 6.243 km		
			S.R. Value : 50000 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/2022-23/06/04 Date: 23.06.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>Ghaziabad-Meerut City</u>					
1	Modinagar R/s to Muhiuddinpur R/s	0.64	0.001	15640	16
2	Muhiuddinpur R/s to Partapur R/s	1.2	0.0025	14320	36
3	Partapur R/s to Meerut City R/s	-Out of Parallelism-			
<u>Meerut City-Hapur</u>					
4	Meerut City R/s to Kharkhauda R/s	-Out of Parallelism-			