



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

No.: CEA/PCD/ PTCC/HRA-231/220-22

Date: 07.04.2020

Subject: PTCC proposal for LILO of both circuits of 220 kV Palwal-Rangala Rajpur D/C line at 400 kV S/S Prithla.

Reference :-

- | | |
|--|-------------------|
| (i) HVPNL, Executive Engineer Memo. No. 4586 | Dated: 31.01.2020 |
| (ii) BSNL Ref. No. DET/PTCC/ND/DV-9693/HR-851/2019-20 | Dated: 19.03.2020 |
| (iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2019-20/02/01 | Dated: 12.02.2020 |

The PTCC proposal submitted vide ref. (i) has been examined. BSNL vide ref. (ii) intimated that there are no U/G copper cable and no armoured OFC within 08 kms of proposed power line. Hence, NOC is conveyed for this line. The LF induction on the Block and communication circuits of Northern Railway as per details furnished vide ref.(iii) has been examined. The average soil resistivity value has been taken as 15,000 ohms-cm. Voltages likely to be induced on paralleling Block and communication circuits of Northern Railway under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered.

Telecommunication details from Defense are pending and the power authority has shown urgency for charging the line. In view of this, you are requested to issue provisional PTCC route approval.

Encl.: As above.

for Raghendra Prasad Singh
(Upendra Kumar)
Chief Engineer

To,
DET (telecom), BSNL
PTCC O/o GM (North), Inspection Circle (T&D),
CTS Compound, Netaji Nagar,
Africa Avenue, New Delhi-110023

M/C

Copy to :-

1. General Manager (S&T), Northern Railway, Office Headquarters, Baroda House, New Delhi-110001.(Annex-I only)
2. Executive Engineer, Transmission System, Haryana Vidyut Prasaran Nigam Ltd.,66kV S/S, Palwal (HR)-121102.

Case No.: HRA-231		Map Scale : 1 cm=500 mts			
Name of the Power line: LILO of both circuits of 220 kV Palwal-Rangala Rajpur D/C line at 400 kV S/S Prithla.		Total Length : 6.240 km			
		Soil Resistivity : 15,000 ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

<u>Northern Railway letter no:- 342-SIG/1/PTCC/2019-20/02/01 dated 12.02.2020</u>					
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>Tughlakabad-Palwal</u>					
1.	Asaoti R/S to Palwal R/S	3.47	0.0008	13231	11