



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-237/49-51

Date: 20.01.2021

Subject: PTCC proposal for LILO of both circuit of 220 kV D/C Narwana –Mund line at 400 kV Substation Khatkar (PGCIL-Jind)-regd.

Ref.: (i) HVPNL Ref. No. CH-30/TSW/EC-35 Dated: 25.11.2020
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9823/HR-857/2020-21 Dated: 31.12.2020
(iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2020-21/01/03 Dated: 11.01.2021
(iv) HVPNL Ref. No. 47/EC-35/Vol-IV Dated: 12.01.2021

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of Northern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 10,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annex-I and Annex-II respectively. 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 vide above ref. (iv). In view of this kindly take necessary action regarding issuance of **provisional PTCC route approval for LILO of both circuit of 220 kV D/C Narwana –Mund line at 400 kV Substation Khatkar (PGCIL-Jind).**

Encl.: As above.

उपेन्द्र कुमार

(Upendra Kumar) 20.01.2021
Chief Engineer

To,

1. The DET (PTCC), BSNL, Northern Zone O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001. (Annex-I only)
2. General Manager (S&T), Northern Railway, Office Headquarters, Baroda House, New Delhi-110001. (Annex-II only)

Copy to:-

- Executive Engineer, TS Division, Haryana Vidyut Prasaran Nigam Ltd., Jind.

MIC

Case No. :- HRA-237

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 42.071Kms

S.R Value : 10,000 Ohm-cm

Name of the Power Line: LLO of both circuit of 220 KV D/C
Narwana-Mund Line at 400 KV Sub-
Station Khatkar (PGCIL-Jind)

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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BSNL
Reference No. DET/PTCC/ND/DV-9823/HR-857/20201-21 Dated:- 31.12.2020
Date :

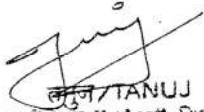
BSNL Details						
1	Khatkar to Barodi 50 Pair	} IV less than 430				
2	Bhonsla to Dhankar 50 Pairs					

रतनज / TANIJJ
सहायक निरीक्षक II / Asstt. Dir. - III
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi - 68

ANNEXURE -II

Case No.: HRA-237 Name of the Power line: LILO of both circuit of 220 kV D/C Narwana –Mund line at 400 kV Substation Khatkar.(PGCIL-Jind)			Map Scale : 1 cm=500 m Total Length : 42.071 km Soil Resistivity :10,000 ohm-cm		
S.No.	Telecom. Details	Length of Parallelis m in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts

Northern Railway Ref. No. 342-SIG/1/PTCC/2020-21/01/03 dated 11.01.2021					
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>DELHI-BATHINDA</u>					
(AB)	Jind R/S to Barsola R/S	1.1	0.0003	9905	03
	Barsola R/S to Uchana R/S	0.4	0.0010	9881	10
	Uchana R/S to Ghaso R/S	Outside IV consideration zone			00
(AC)	Jind R/S to Jind City R/S	Outside IV consideration zone			00
	Jind City R/S to Pandu Pindara R/S	Outside IV consideration zone			00
(AD)	Jind R/S to Bishanpura Haryana R/S	Outside IV consideration zone			00


 लज्जुन/TANUJ
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत विभाग/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-68