



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division

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Case No.: PNB-372:	16.09.2021
PTCC proposal for 220 kV D/C transmission line from 220 kV Bhatari S/S to Mehmampur TSS: 26.162 km	

Reference:		Dated
S. No.	Reference No.	
(i)	PSTCL, Patiala Addl. SE/TS-II Endst. No. 5056	11.12.2020
(ii)	BSNL:DET/PTCC/ND/DV-9821/PB-927/2021-22	03.06.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/01/06 (complete details received on 30.06.2021)	14.01.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2252	10.02.2021

The PTCC proposal submitted vide reference (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 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 Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line.

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified  
Digitally signed by RAGHUVENDRA PRATAP  
SINCH  
Date: 2021.09.16 16:12:44 IST

Director

To,		
1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001. Annexure-I only
2.	AESTE/UTS	Northern Railway, Head Quarter Office, Baroda House, New Delhi-110001. Annexure-II only
3.	Addl. SE/TS-II, Patiala	PSTCL; Office of Chief Engineer/Transmission System, 3rd Floor, Shakti Sadan, Patiala-147001. Copy for information

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**ANNEXURE - II**

Case No.: PNB-372

Name of the Power line: 220 kV D/C transmission line from 220 kV Bhateri S/S to Mehmampur TSS.

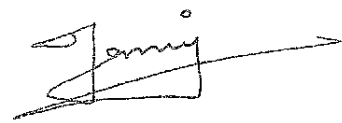
Map Scale : 1 cm=500 m  
 Total Length : 26.162 km  
 S.R. Value : 10,000 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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Northern Railway Ref. No: 342-SIG/1/PTCC/2020-21/01/06 Dated : 14.01.2021  
**Affected Blocks & Telecom Circuits Details**

Rajpura to Dhuri

1	Rajpura R/S to Kauli R/S	4.1	0.0007	6349	05
2	Kauli R/S to Daun Kalan R/S	5.3	0.0034	7962	27
3	Daun Kalan R/S to Patiala R/S	Outside IV consideration zone			00
4	Patiala R/S to Patiala Cantt. R/S	Outside IV consideration zone			00



*[Faint, illegible text]*