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

Power Communication Development Division

16-09-2021 Case No.: PNB-372: PTCC proposal for 220 kV D/C transmission line from 220 kV Bhateri S/S to Mehmadpur TSS: 26.162 km

teferenc		Dated
S. No.	Reference No.	11.12.2020
(i)	PSTCL, Patiala Addl. SE/TS-II Endst. No. 5056	03.06.2021
(ii)	DENIL DET/PTCC/ND/DV-9821/PB-927/2021-22	
	Northern Railway: 342-SIG/1/PTCC/2020-21/01/06	14.01.2021
(iii)	(complete details received on 30.06.2021)	
	(complete details received on 30.000)	10.02.202
(iv)	Defense: B/46937/ Sigs 7(b)/2252	

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 RAGHYENDRA PRATAP SINGH Date: 2021.09.16 16:12:44 IST

Director

To,		BSNL O/o PGM (N), QA & Inspection Circle,	Annexure-I
		D-Tax Building, Eastern Court, Janpath, New	only
1.	Turguida, ("	~ 11:110001	Annexure-II
-	Northern Zone	Northern Railway, Head Quarter Office, Baroua	only
2.	AESTE/UTS		
3.	Addl. SE/TS-II,	PSTCL; Office of Chief Engineer/Transmission System, 3rd Floor, Shakti Sadan, Patiala-	Copy for information
	Patiala	147001.	a) C

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Case No.: PNB-372

Annexure I

Name of the Power Line: 220 KV D/C line from 220 KV Bhateri to 220 KV S/S Mehmadpur TSS

Toposheet Scale : 1cm=500mts Total Length : 26.162 Kms S.R Value : 10,000 Ohm-cm

SI. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in V
BSNL Referenc	e No. DET/PTCC/ND/DV-9821/PB-927/2021-22	Ontodi do oo oo			
	1 Dane Details	Jated 03,06.20	21		-
1	Daun Kalan Exch to Bhateri 200 Pairs (4.5 KM)				
2	Kauli Exch to Fatehpur Jattan Pillar 100 Pairs (3.5 KM) & fatehpur Pillar to Fatehpur Jattan Village 20 pairs (1.5 KM)				
_3	Kauli Exch to Alampur Village 100 pairs (3.5 KM)	L	Less the	m-4304	
4	Kauli Exch to Gausnpura Pillar 100 pairs (2.5 KM) & gasunpura pillar to gasunpura village 100 pair(2.5 KM)				
5	Kauli Exch to kauli village 200 pairs (1.5 KM)	1	y		
			AANUJ II. Assti Director II		
		केन्द्रीय विद्यात	जिक्स्प/C.E.A.		
		<u> भारत</u> सरकार	Ministry of Power I/Govt. of India		
		THE PARTY OF	New Delhi-56		

ANNEXURE - II

Case No.: PNB-372 Name of the Power line: 220 kV D/C transmission line from 220 kV Bhateri S/S to Mehmadpur TSS.

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

S.No.	I elecom. Details	Length of Parallelism in Km.	in Ohms.	Effective Fault current in Amps.	I.V in Volts.
	Northern Railway Ref. No: 342-SIG Affected Blocks &	7/1/PTCC/2020-2 Telecom Circuit	1/01/06 Date	ed: 14.01.2021	
1	Rajpura R/S to Kauli R/S	ıra to Dhuri	- Ceans		
2	Kauli R/S to Daun Kalan R/S	4.1	0.0007	6349	05
3	Daun Kalan R/S to Patiala R/S	5.3 Outside IX	0.0034	7962	27

5.3 0.0034 7962 27 Outside IV consideration zone Patiala R/S to Patiala Cantt. R/S 00 Outside IV consideration zone 00

the straight strongs consider and