



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.: PNB-370
PTCC proposal for 220 kV GSS Passiana to Dhablan Railway TSS Two phase on D/C tower transmission line: 7.571 km

Reference:		
S. No.	Reference No.	Dated
(i)	PSTCL, Patiala Addl. SE/TS-II Endst. No. 1660/67 (and details received on 03.11.2021)	10.06.2020
(ii)	BSNL:DET/PTCC/ND/DV-9710/PB-921/2021-2022	03.06.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/07/05 (complete details received on 30.06.2021)	10.07.2020
(iv)	Defense: B/46937/ Sigs 7(b)/2068	21.10.2020

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.

Digitally signed by RACHYENDRA PRATAP SINGH
Date: 2021.12.06 10:57:03 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

MIC

Case No. : 11/11/2021

Annexure I

Name of the Power Line: 220 KV line from 220 KV GSS Passiana to Dablan Railway TSS 2- Phase on DC Tower

Toposheet Scale : 1cm=500mts
 Total Length : 7.571 Kms
 S.R Value : 5,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL					
Reference No. DET/PTCC/ND/DV-9710/PB-921/2021-22 Dated:- 03.06.2021					
BSNL Details					
1	Passiana to Smana More Chungi 250 pairs (2 KM)				
	Smana More Chungi to Ranbirpura 200 pairs (4 KM)				
	Passiana to Swarajpur 50 Pairs (5 KM)				
1	Passiana to Local pillar 100 pair (0.6 KM)				
2	Mini link on LOS to Dablan Exch 250 pairs (1 KM)				
3	Dhakrabba Exch to Sani majra 250 pairs (1 KM)				
	Dhakrabba Exch to Mehamudpur 100 Pairs(1 KM)				
4	Dablan Exch to PNB Pillar 100 Pairs (0.5 KM)				
	Dablan Exch to Gurudwara sahib 250 Pairs (2 KM)				
	Dablan Exch to Kalyan 250 Pairs (5 KM)				
	Dablan Exch to Kheri Muslamania 150 Pairs (3.5 KM)				
	Gurudwara Sahib to Village Jahlan 20 Pairs (2 KM)				

Stamp: DET/PTCC/ND/DV-9710/PB-921/2021-22
 03.06.2021
 NEW DELHI

ANNEXURE-II

CBA Case No.: PNB-370 Name of the Power line: 220 kV GSS Passiana to Dhablan Railway TSS Two phase on D/C tower transmission line.			Map Scale : 1 cm=500 m Total Length : 7.571 km. S.R. Value : 15,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

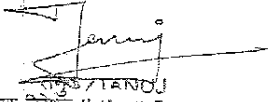
Northern Railway: 342-SIG/1/PTCC/2020-21/07/05

Dated: 10.07.2020

Affected Blocks & Telecom Circuits Details

Dhuri to Rajpura Section

1	Nabha R/S to Dhablan R/S	Out of Parallelism			00
2	Dhablan R/S to Patiala Cantt R/S	4.8	0.0014	9982	14
3	Patiala Cantt R/S to Patiala R/S	1.1	0.0001	8957	01



सहायक निदेशक-II/Asstt. Director-II
विद्युत प्राधिकरण/C.E.A.
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