



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

Case No.: PNB-359:

PTCC proposal for 220 kV D/C transmission line from 220 kV S/S Gaunsgarh to 220 kV S/S Ladowal: 16.927 km

Reference:

S. No.	Reference No.	Dated
(i)	PSTCL, Patiala Addl. SE/TS-II Endst. No. 50	08.01.2019
(ii)	BSNL:DET/PTCC/ND/DV-9510/PB-909/2019-2020	15.01.2020
(iii)	Northern Railway: 342-SIG/1/PTCC (complete details received on 30.06.2021)	24.01.2019
(iv)	Defense: B/46937/ Sigs 7(b)/1411	05.03.2019

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. (a copy enclosed at Annexure-III)

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 SINGH
Date: 2021.07.18 11:58:01 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 & Annexure-III 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

Case No. : PNB-359Name of the Power Line: 220 KV DC Line between 220 KV S/S
Gaunsgarh & 220 KV S/S Ladowal

(Annexure I)

Toposheet Scale : 1cm=500mts

Total Length : 16.927 Kms

S.R Value : 10,000 Ohm-cm

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-9510/PB-909/2019-20

Date : 15.01.2020

BSNL Details					
1	Mattiwara TE - Manglikhas-Sassali-Buthgarh Banjara Sasrali Pillar (200 Pr, 100 pr, 50 Pr) 5.2 KM				
2	Meharban TE- Jahangirpur- Kakka- Dhaula Pillar (200 Pr, 100 Pr) 4 KM				
3	Meharban TE- Sisah- Sattowal- Dheri- Chuharwala Pillar (400 Pr, 100 pr x3) 3.2 KM				
4	Meharban TE- Khujke-Rawat Pillar (200 Pr, 50Pr.) 3.6 KM				
5	Meharban TE- Mangat Pikllar(100Pr) 3.9 KM				
6	Meharban TE- Gaunsgarh - Gadapur Pillar (200 Pr, 100 Pr) 4.7 KM				
7	Meharban TE - Bajra- Kaneja- Sujatwala- Nurwale Pillar (200 Pr, 100 Pr, 50 Pr) 5.6 KM				
8	Bhattian T E- Bahadurke Pillar(400 Pr) 1.1 KM				
9	Bhattian TE- Dad- Fatehgarh Gujran- Talwan Kalan Pillar (200 Pr, 100 Pr) 3.5 KM				
10	Bhattian TE - Qutbewal- Kasabad- Jamalpur Leli Pillar (400 Pr, 100 Pr.) 3.2 KM				
11	Nurpur TE- Rasurpur Khurd- Bagga Kalan- Rajjowal Pilla (100 Pr, 50 Pr, 50 Pr) 3.3 KM				
12	Nurpur TE- Char Pillar (50 Pr) 3.5 KM				
13	Jassian TE - Chuharpur Pillar (200 Prx2) 4.7 KM				
14	Jassian TE- Qutbewal Gujran Pillar (100 Pr) 4.5 KM				
15	Jassian TE- Basewal darshan Pillar (100 Pr) 3.9 KM				
16	Jassian TE- Manjh Pillar (100 Pr) 3.4 KM				
17	Jassian TE- Talwandi Khurd- Bonker Dogran- Ladhowal Pillar (100 Pr) 5.3 KM				
18	Nagar TE- Katpalon Pillar (200 Pr) 0.9 KM				
19	Nagar TE- Ashaur Pillar (50Pr) 1.9 KM				
20	Phillaur TE- NH-1(Shani Dev mandir Pillar) (50 Pr) 1.9 KM				
21	Phillaur TE- Ramgarh Pillar (200 Pr x2) 0.8 KM				
22	Phillaur TE- Nangal Pillar (200 Pr) 0.6 KM				
23	Phillaur TE- Ganepind Pillar (100 Pr, 50 Pr) 2 KM				

IV less than 430V

TANUJ

सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

ANNEXURE - II

Case No.: PNB-359

Name of the Power line: 220 kV D/C transmission line from 220 kV S/S Gaunsgarh to 220 kV S/S Ladowal.

Map Scale : 1cm=500mts

Total Length : 16.927 Km.

S.R. Value : 10,000 Ohms-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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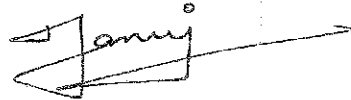
Northern Railway Ref. No: 342-SIG/1/PTCC

Dated 24.01.2019

Affected Blocks & Telecom Circuits Details

Ludhiana- Jalandhar line

1	Ludhiana R/S to Lathowal R/S	Out of Parallelism			00
2	Lathowal R/S to Phillaur R/S	4.2	0.0033	7942	26
3	Phillaur R/S to Goraya R/S	Out of Parallelism			00



तनुज/TANUJ
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

Tele : 23019746

(Annexure-III) PNR-359

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/1411/

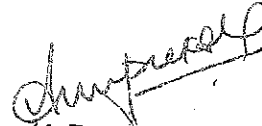
05 Mar 2019

Office of Chief Engineer/Transmission System
Punjab State Transmission Corporation Limited
3rd Floor, Shakti Sadan, Patiala-147001

**PTCC CASE FOR TRANSMISSION LINE 220KV DC LINE BETWEEN 220KV S/S
GAUNSGARH & 220KV S/S LADOWAL**

1. Ref your Endst. No 48 dt 08 Jan 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

239
11/3/2019


(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : As above

Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

for information.