



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पावर कम्युनिकेशन डवलपमेंट प्रभाग
Power Communication Development Division

No.: CEA/PCD/ PTCC/PNB-362/ 11/19-1121

Date: 18.11.2019

The Divisional Engineer (Telecom), BSNL
PTCC O/o GM (North), Inspection Circle (T & D),
CTS Compound, Netaji Nagar,
Africa Avenue, New Delhi - 110023

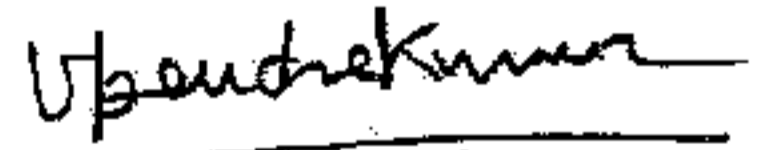
Subject: PTCC proposal of 220 kV transmission line from Sandhour to Kup kalan two phase on D/C towers.

Ref. :

(i)	PSTCL Endst. No. 787, TLSC Division, Patiala	Dated: 28.08.2018
(ii)	BSNL ref. No. DEF/PTCC/ND/DV-9441/PB-907/2019-20	Dated: 19.06.2019
(iii)	Northern Railway ref. No. 342-SIG/1/PTCC	Dated: 20.09.2018
(iv)	Defense ref. No. B/46937/Sigs 7(b)/1256/	Dated: 27.11.2018

The PTCC proposal submitted vide above ref. (i) has been examined. The low frequency induction on BSNL cables and Block circuits of Northern Railways as per details furnished vide ref. (ii) and ref.(iii) respectively has been examined. The Soil Resistivity value has been taken as 15,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL cables and Railway block circuits under single line to ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III). Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.


18.11.2019
(Upendra Kumar)
Chief Engineer, PTCC

m/c

Copy to:

1. General Manager / S&T, Northern Railway, Office Headquarters, Baroda House, New Delhi-110001.
2. Additional Superintending Engineer, Punjab State Transmission Corporation Limited, TLSC Division, Patiala-147001.

Case No. : PNB-362

Annexure I

Name of the Power Line: 220 KV Line from Sandhour to Kupkalan 2 phase on D/C Towers Transmission Line

Toposheet Scale : 1cm=500mts
Total Length : 11.215 Kms
S.R Value : 15000 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-9441/PB-907/2019-20
Date : 19.06.2019

BSNL Details					
1	Sandhour TE to Dulwan Kalan Pillar (50 Pr)				
2	Sandhour TE to Baiyewal Pillar (100 Pr)				
3	Sandhour TE to Jhunar Pillar (50 Pr)				
4	Dhano TE to Nathoheri Pillar (100 Pr & 50 Pr.)				
5	Dhano TE to Bir Imamagarh Pillar (50 Pr.)				
6	Dhano TE to Jatiwal Pillar(50 Pr.)				
7	Kanganpur TE to Dhuler Kalan Pillar (100 Pr)				
8	Kanganpur TE to Bathan Pillar (100 Pr)				
9	Kanganpur TE to Manakwal Pillar (100 Pr)				
10	Kupkalan TE to Bhogiwal-Bazidgarh Pillar (100 Pr & 50 Pr)				
11	Kupkalan TE to Jitwal Khurel-Albelpura Pillar (100 Pr & 100 Pr)				
12	Kupkalan TE to Jitwal Kalan (50 Pr)				
13	Kupkalan TE to Begowal Pillar(50 Pr)				

IV LESS THAN
430V

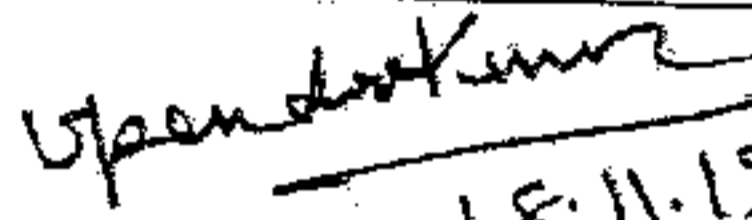
Upandakumar
18.11.19

मुख्य अभियंता / Chief Engineer
केंद्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

ANNEXURE- II

Case No.: PNB-362					
Name of the Power Line : 220 KV transmission line from Sandhour to Kup Kalan two phase on D/C towers		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 11.215 कि.मी. एस. आर. मान : 15,000 ओम-सेमी			
क्रम संख्या	टेलीकाम विवरण	समानांतरीय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

NORTHERN RAILWAY					
Ref. No: 342-SIG/1/PTCC			DATED: 20-09-2018		
Affected Blocks & Telcom Circuits Details					
(A)	Ludhiana-Dhuri line.				
1.	Ahmedgarh R/S To Kup R/S	0.5	0.0003	9600	3
2.	Kup R/S To Malerkotla R/S	1.5	0.0007	9110	7


 18.11.19
 मुख्य अभियंता / Chief Engineer
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

Tele : 23019746

Annexure - III

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

B/46937/Sigs 7(b)/1256/

27 Nov 2018

Addl. SE/TS-II
Office of Chief Engineer/Transmission System
Punjab State Transmission Corporation Ltd
3rd Floor, Shakti Sadan, Patiala-147001

**PTCC CASE FOR TRANSMISSION LINE 220KV LINE FROM SANDHOUR TO KUP
KALAN**

1. Ref your letter No 783 dt 28 Aug 2018 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are forwarded herewith for your further action.

(Signature)

(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.