



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-357/

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- 220 kV transmission line from Talwandi Sabo to Maiser Khana.

**Ref. :** (i) PSTCL Endst. No. 2467, TLSC Division, Patiala Dated: 31.05.2018  
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9442/PB-908/2019-2020 Dated: 19.06.2019  
(iii) Northern Railway Ref. No. 342-SIG/1/PTCC Dated: 16.07.2018  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1152/ Dated: 20.09.2018

The PTCC proposal submitted vide 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.

*Upendra Kumar*  
18.11.19

(Upendra Kumar)  
Chief Engineer, PCD

**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-357

Name of the Power Line: 220 KV Line from Talwandi Saboo - to  
Maiser Khana Line

**Annexure I**

Toposheet Scale : 1cm=500mts  
Total Length : 15.354 Kms  
S.R Value : 15,000 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-9442/PB-908/2019-20  
Date : 19.06.2019

BSNL Details					
1	Teona Pujarian TE to Mallana Pillar ( 50 Pr)	Out of 11'sm			
2	Teona Pujarian TE to Sangat Khurd Pillar ( 50 Pr)	Out of 11'sm			
3	Talwandi Saboo TE to Gursar Jaga Pillar ( 50 Pr)	IV less than	430 V		
4	Talwandi Saboo TE to Nawanpind Pillar ( 50 Pr)	IV less than	430 V		
5	Talwandi Saboo TE to Bhagi Bandar Pillar ( 50 Pr)	IV less than	430 V		
6	Shekhpura TE to Rautirath jaga Pillar(100 Pr.)	IV less than	430 V		
7	Jadhpur Bikhar TE to Lelewala Pillar ( 50 Pr)	IV less than	430 V		
8	Jadhpur Bikhar TE to Burj Senia Pillar ( 50 Pr)	IV less than	430 V		
9	Jadhpur Bikhar TE to Natt Pillar ( 50 Pr)	IV less than	430 V		
10	Jadhpur Bikhar TE to Mari Pillar ( 50 Pr)	IV less than	430 V		
11	Jadhpur Bikhar TE to Jatri Pillar ( 50 Pr)	IV less than	430 V		
12	Kot Fateh TE to Kot Bhara Pillar ( 50 Pr)	IV less than	430 V		
13	Kot Fateh TE to Dhansingh Khana Pillar ( 50 Pr)	IV less than	430 V		
14	Kot Fateh TE to Rai Khana Pillar ( 50 Pr)	Out of 11'sm			
15	Maiserkhana TE to Bhai Bakhtawar Pillar ( 50 Pr)	Out of 11'sm			
16	Maiserkhana TE to Ghaso Khana Pillar ( 50 Pr)	IV less than	430 V		
17	Maiserkhana TE to Chinar Thal Pillar ( 50 Pr)	Out of 11'sm			
18	Maiserkhana TE to Gahri Bara Singh Pillar ( 50 Pr)	Out of 11'sm			

*Upendra Kumar*  
18.11.19

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

भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

**ANNEXURE- II**

<b>Case No.:</b> PNB-357					
<b>Name of the Power Line :</b> 220 KV transmission line from Talwandi Saboo to Maiser Khana.		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 15.354 कि.मी. एस. आर. मान : 15,000 ओम-सेमी			
क्रम संख्या	टेलीकाम विवरण	समानांतर्रीय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

<b>NORTHERN RAILWAY</b>					
Ref. No: 342-SIG/1/PTCC			DATED: 16-07-2018		
<b>Affected Blocks &amp; Telcom Circuits Details</b>					
(A)	<b>Bathinda- Jakhal line.</b>				
1.	Kot Fateh R/S To Maiser Khana R/S	0.7	0.0074	9400	43
2.	Maiser Khana R/S To Maur R/S	3.2	0.0007	8000	8

*Upendra Kumar*  
18.11.19

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

PNB - 357  
ANNEXURE - III

Tele : 23019746

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

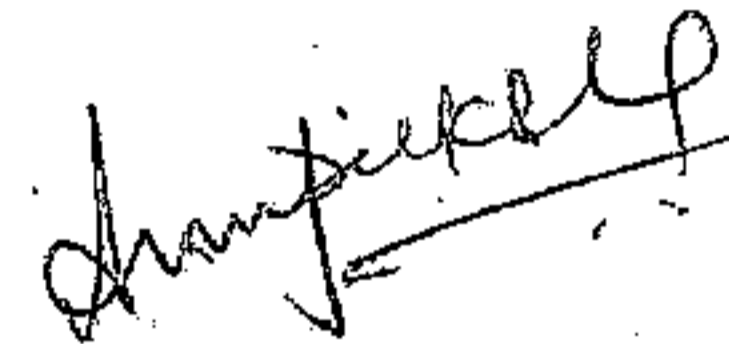
B/46937/Sigs 7(b)/1152/

20 Sep 2018

Addl Superintending Engineer  
Punjab State Transmission Corporation Ltd  
TLSC Division  
Ablawal, Patiala - 147 001

**PTCC CASE OF TRANSMISSION LINE 220 KV LINE FROM TALWANDI  
SABO TO MAISER KHANA**

1. Ref your letter No 2463 dt 31 May 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.



(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.