



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 -350/2600-2602

Date:19.12.2018

DET (PTCC), Northern Zone
O/o PGM(N), Inspection Circle,
CTS Compound, Netaji Nagar,
New Delhi - 110023


Sub: PTCC Route Approval for 220 kV GHTP-Talwandi Sabo LILO at Maur DC on DC Line

Ref: (i) BSNL letter no. DET/PTCC/ND/DV-9389/PB-902/2018-19 dated 27.11.2018
(ii) Northern Railway letter no. 342-SIG/1/PTCC dated 07.02.2018
(iii) Defense letter no. B/46937/Sigs 7(b)/1268 dated 20.11.2018

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i) and (ii) has been examined. The Average Soil Resistivity value has been taken as 15000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and Railway Telecom Cables under single line to ground fault condition are enclosed at Annex-I and II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(iii) for the above line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above


(Naresh Bhandari) 19.12.18
Chief Engineer

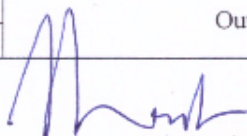
Copy to:

- I. General Manager/S&T, Northern Railway, Headquarter Office, Baroda House, New Delhi - 110001(Copy of Annexure-II only)
- II. Addl. Superintending Engineer, TLSC Division,PSTCL(PUNJAB STATE TRNSMISSION CORPORATION LTD),Patiala, Punjab.-147 001.

ANNEXURE - I

Case No.: PNB-350		मानचित्र स्केल : 1 सेमी=500 मीटर				
Name of the Power Line : 220kV GHTP-Talwandi Sabo LILO at Maur DC on DC Tower Line.		कुल लम्बाई : 8.735 कि.मी.				
		एस. आर. मान : 15,000 ओम- सेमी				
क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में	

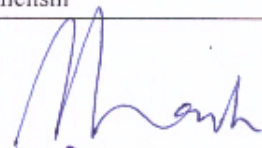
BSNL DETAIL		
Ref. No: DET/PTCC/ND/DV-9389/PB-902/2018-19		DATED: 27/11/2018
A	Rajgarhkubbe Exchange	
1	Exch to Kamaler Sawaich Pillar — 50 Pair	Outside IV consideration zone
2	Exch to KotlaKhurd Pillar — 50 Pair	
3	Exch to TalaSahib Pillar — 50 Pair	
B	Maur Mandi Exchange	
1	Exch to Maurkalan Pillar — 50 Pair x2	IV LESS THAN 430 V
2	Exch to Maurkhurd Pillar — 100 Pair	Out of parallelism
3	Exch to maur charatsingh wala Pillar-50 pair x2	Out of parallelism
4	Exch. Kasaiwara Pillar 50 pair x 2	IV LESS THAN 430 V
C	Maisar Khana Exchange	
1	Exch to Gurudawra outside Pillar — 50 Pair	Out of parallelism
D	Kuttiwal Kalan Exchange	
1	Exch to Thamangarh pillar — 50 Pair	IV LESS THAN 430 V
2	Exch. To Kuttiwal Khurd Pillar -50 pair	IV LESS THAN 430 V
E	Ballanwal Exchange	
1	Exch. To MandiKhurd Pillar-50 Pair	Outside IV consideration zone
F	Ghumman kalan Exchange	
1	Ghumman Kaln- Gummankhurd Pillar-50 Pair	IV LESS THAN 430 V
2	Ghumman Kalan Kharaksinghwala Pillar-50Pair.	IV LESS THAN 430 V
G	Kotlikalan Exchange	
1	Exch.-Kalla BTS Pillar -50 Pair	IV LESS THAN 430 V
H	Musa Exchange	
1	Exch.-SaddaSinghwala Pillar-100P+50 pair	Outside IV consideration zone
I	Burj Haridle Exchange	
1	Exch-Ubbah Pillar-200p+100px2	Out of Parallelism
2	Exch-Burj Dhilwan Pillar-50 pair	
J	Bhaini Bhaga edxchange	
1	Exch - Khokharkalan Pillar-50 Pair	Out of parallelism.
2	Exch. -ThuthianwalliPillar-50 Px2	
3	Exch-Burj. Rathi Pillar-50Px2	
4	Exchan-Bhai Desa Pillar-100 P	


 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 सेवा भवन, आर.के. पुरम,
 Sewa Bhawan, R.K. Puram,
 नई दिल्ली-66, New Delhi-66

ANNEXURE - II

Case No.: PNB -350				Map Scale : 1cm=500mts		
Name of the Power line: 220kV GHTP-Talwandi Sabo LILO at maur DC on DC Tower Line.				Total Length : 8.735 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 Ref. No. 342-SIG/1/PTCC Dated the 07-02-2018					
1.	Maur-Sadda Singh Wala	6	0.003	10000	30
2.	Sadda Singh Wala-Mansa	Out of parallelism			0


 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 सेवा भवन, आर.के. पुरम,
 Sewa Bhawan, R.K. Puram,
 नई दिल्ली-66, New Delhi-66

ANNEX-III

Tele : 23019746

PNB-350

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

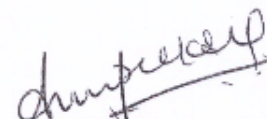
B/46937/Sigs 7(b)/1268/

20 Nov 2018

Dy. CE/TS(D)
Punjab State Transmission Corporation Ltd
Office of Engineer-in-Chief/ Transmission System
The Mall, 3rd Floor, Shakti Sadan
Patiala - 147001

**PTCC CASE OF LILO OF CKT OF 220KV GHTP-TALWANDI SABO AT 220 KV S/S
MAUR**

1. Ref your letter No 451 dt 30 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 returned herewith for your further necessary 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.