



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/UTR-26/173-175

Date: 27.02.2020

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

**Subject:** Induced Voltage calculation in respect of PTCC proposal of 220 kV D/C Rudrapur to Srinagar via Ghausali Transmission line associated with 3X33 MW Singoli Bhatwari HEP

- Ref:** (i) Executive Engineer(PI), PTCUL letter no. 534/EE(PI)/PTCUL/ dated 30.09.2019  
(ii) BSNL letter no. DET/PTCC/ND/DV-9615/UTR-34/2019-2020 dated 10.02.2020  
(iii) North Eastern Railway letter no. N/242/0/(Tele)PTCC-Pt.-II/832 dated 26.12.2019

The PTCC case submitted vide reference (i) has been examined. North Eastern Railway Vide reference (iii) has accorded NOC. The low frequency induction on BSNL Telecommunication circuits as per details furnished vide above references (ii) has been examined. The Soil Resistivity value has been taken as 50,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecommunication circuits under single line to ground fault condition are enclosed at Annex. The screening factors as applicable have been considered.

Telecommunication details from Defense are pending and the power authority has shown urgency for charging the line. In view of this, you may issue provisional PTCC route approval.

**Encl.:** As above

*Upendra Kumar*  
27.02.2020  
(Upendra Kumar)  
Chief Engineer

**Copy to:**

- 1) GM(S&T), North Eastern Railway, State Entry Road, Gorakhpur.(Only cover letter) M/C
- 2) Executive Engineer, PTCUL, 400 kV S/S, Srinagar, Khandukhal, Post-Dehalchauri, Srinagar, Dist-Pauri Garhwal-246125.

Case No. : UTR - 26

Name of the Power Line: 220 KV D/C Rudrapur to Srinagar via  
Ghansali Transmission Line associated  
with 3 x 33 MW Singoli- Bhatwari Line

**Annexure I**

Toposheet Scale : 1cm=500mts  
Total Length : 91.472 Kms  
S.R Value : 50,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volt
<b>BSNL</b>					
Reference No. DET/PTCC/ND/DV-615/UTR-34/2019-2020/ Dated : 10.02.2020					
BSNL Details					
1	Kiritnagar Exch to Maletha (200Pr)	}	← out of 115m →		
2	Kiritnagar Exch to Uflada (100Pr)				
3	Kiritnagar Exch to Bilkedar (100Pr)				
4	Kiritnagar Exch to Maddi Road (200Pr)				
5	Dechalchaouri Exch. Loca (50 Pr)				
6	Dechalchaouri Exch. Loca (100 Pr)				
7	Bagwan Exch to Bagwan Mkt ( 100 Pr)	}	← IV less than 420 V →		
8	Bagwan Exch. local ( 100 Pr)				

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

27/02/2020