



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

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No.: CEA/PCD/PTCC/UTR-28 / 257-259

Date: 22.06.2020

**Subject:** PTCC proposal of 220 kV D/C Pirankaliyar (220 kV S/S) to Puhana (400 kV S/S PGCIL) transmission line -regd.

Ref.:	(i)	PTCUL Ref. No.176/EE(O&M)/MMR	Dated: 06.11.2019
	(ii)	BSNL Ref. No. DET/PTCC/ND/DV-9635/UTR-35/2019-2020	Dated: 19.05.2020
	(iii)	Northern Railway Ref. No.342-SIG/1/PTCC/2019-20/11/1	Dated: 18.11.2019
	(iv)	Defense Ref. No. B/46937/Sigs 7(b)/1902	Dated: 09.03.2020

The PTCC proposal submitted vide ref. (i) has been examined. Vide ref. (ii) above; BSNL has intimated that there are no U/G copper cable and no armoured OFC within 08 km of the proposed power line. Hence, NOC for BSNL circuits is conveyed. The LF induction on Block & Telecom circuits of Northern Railway with respect to details furnished vide above references (iii) has been computed. The Soil Resistivity value has been taken as 10,000 Ohms-cm. The voltages likely to be induced on paralleling Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

Encl.: As above.

*Upendra Kumar*  
22.06.2020  
(Upendra Kumar)  
Chief Engineer

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

Copy to:

1. General Manager/S&T, Northern Railway, Headquarter Office, Baroda House, New-Delhi-110001. (Annex-I only)
2. Executive Engineer, PTCUL, 220 kV S/S Piran Kaliyar Extension, 26-Civil lines, Roorkee-247667 (UK).

**ANNEXURE - I**

<b>Case No.: UTR-28</b>		<b>Map Scale : 1 cm = 500 m.</b>			
<b>Name of the Power Line: 220 kV D/C Pirankaliyar (220 kV S/S) to Puhana (400 kVS/S PGCIL) transmission line.</b>		<b>Route Length : 7.5 km</b>			
		<b>Soil Resistivity : 10,000 Ohm-cm</b>			
<b>S.No.</b>	<b>Telecom Details</b>	<b>Length of Parallelism (in km)</b>	<b>Mutual Coupling (Ohms)</b>	<b>Fault Current (Amps)</b>	<b>Induced Voltage (Volts)</b>

<b>NORTHERN RAILWAY</b>					
Ref. No: 342-SIG/1/PTCC/2019-20/11/1			DATED: 18-11-2019		
<b>Affected Blocks &amp; Telecom Circuits Details</b>					
<b>Saharanpur-Laksar Section</b>					
1	Chodiala R/S to Iqbalpur R/S	Out of Parallelism			0
2	Iqbalpur R/S to Roorkee R/S	0.4	0.00004	14221	01
3	Roorkee R/S to Dhandhera R/S	Out of Parallelism			0

*SK*  
22.06.20

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

UTR-28  
(Annex-II)

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

B/46937/Sigs 7(b)/1902/

Mar 2020

Executive Engineer  
Power Transmission Corporation of Uttarakhand Limited  
220kV Sub-Station Pirankaliyar Extension  
28 Civil Lines, Roorkee-247667

**REGARDING PTCC CASE OF CONSTRUCTION OF 220KV FROM PIRANKALIYAR (220KV S/S) TO PUHANA (400KV S/S PGCIL) D/C TRANSMISSION LINE**

1. Ref your letter No 176/EE(O&M)/MMR dt 06 Nov 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.

(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

Divisional Engineer Telegraph (PTCC)  
O/o GM (North), BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Netaji Nagar, New Delhi-110023

for information