

सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

No.: CEA/PCD/ PTCC/UP-482/206-208

Date: 18.03.2020

Subject: - Induced voltage calculation in respect of 220 kV D/C Sultanpur to Sangipur transmission line – Reg.

Reference: -

(i) UPPTCL Ref. No. 36/ETD(Pbh)/PTCC

Dated: 30.03.2019

(ii) BSNL Ref. No. DET/PTCC/ND/DV-9620/UP-814/2019-2020

Dated: 04.03.2020

(iii) Northern Railway Ref. No. 342-SIG/1/PTCC

Dated: 11.09.2019

(iv) Defense Ref. No. B/46937/Sigs 7(b)/1541

Dated: 21.08.2019

The PTCC proposal submitted vide ref. (i) has been examined. BSNL has conveyed NOC vide ref. (ii) above as there are no U/G copper cable and no armoured OFC within 08 kms of the proposed power line. The low frequency induction on block and communication circuits of Northern Railways as per details furnished vide ref. (iii) has been examined. The Soil Resistivity value has been taken as 75,00 Ohms-cm. Voltages likely to be induced on paralleling Railway block and communication circuits 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
18.03.2020

(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

m/c


Copy to: -

1. General Manager(S & T), Northern Railway, Headquarter Office, Baroda House, New Delhi-110001(Annex.-I only).
2. Executive Engineer, U.P. Power Transmission Corporation Ltd., O/o Electricity Transmission Division, 220 kV S/S Bhupiamau, Pratapgarh-230131

ANNEXURE -I

Case No.: UP-482					
Name of the Power line: 220 kV D/C Sultanpur to Sangipur transmission line.		Map Scale : 1 cm=500 mts Total Length : 61.451 km Soil Resistivity : 75,00 ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in Volts.

Northern Railway letter no:- 342-SIG/1/PTCC dated 11.09.19					
Affected Blocks & Telecom circuit details					
Raebareli- Chibila section					
1	Talakhajuri R/S to Amethi R/S	Outside IV consideration zone			0
2	Amethi R/S to Misarauli R/S	3.8	0.0028	6136	17
3	Misarauli R/S to Antu R/S	0.9	0.0006	6307	4
Allahabad-Sultanpur-Faizabad section					
4	Paparpur R/S to Sultanpur R/S	9.5	0.0061	8712	53
5	Sultanpur R/S to Dawarka Ganj R/S	Out of parallelism			0
Utraitia-Sultanpur-Zafrabad section					
6	Sultanpur R/S to Bakhrauli R/S	3.4	0.0022	9763	21
7	Bakhrauli R/S to Bhadaiyan R/S	Out of parallelism			0


 13.03.2019
 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

(Annex-II)

UP-482

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

B/46937/Sigs 7(b)/1541/

21 Aug 2019

Office of the Executive Engineer
Electricity Transmission Division
U.P. Power Transmission Corporation Limited
220KV S/S Bhuplamma Pratapgarh-230131

PTCC CLEARANCE FOR 220KV SULTANPUR-SANGIPUR D/C LINE

1. Ref your letter No 361/ETD(Pbh)/PTCC dt 30 Mar 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.

(Anurag Mishra)
Lt Col
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,
Metaji Nagar, New Delhi-110023

for information

