

भारत सरकार

Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग Power Communication Development Division

No.:CEA/PCD/PTCC/UP-484

1958A = 958C

Date: 19.09.2019

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

Subject:

Induced Voltage Calculation in respect of PTCC proposal for 200 KV D/C Unnao-

Phoolbagh (Kanpur) transmission line.

Reference:

(i) BSNL letter no. DET/PTCC/ND/DV-9500/UP-750/2019-2020 dated 03.09.2019

(ii) Northern Railway letter no. 342-SIG/1/PTCC dated 11.06.2019

Sir.

The instant PTCC proposal has been examined. Vide ref. (i) above BSNL have intimated that there is no U/G cable and armoured OFC within 08 Kms of the proposed power line and hence, issued No objection certificate (NOC). The Soil Resistivity (SR) value has been taken as 15,000 &10,000 Ohm-cm. The voltages likely to be induced on Block and Telecom circuits of Northern Railway under Single Line to Ground fault condition have been computed and are enclosed as Annexure. 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 are requested to issue provisional PTCC route approval.

Encl.: As above

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भ्यतेन्ड <u>प्रताप विद</u> श्व. ०१ ११ (R. P. Singh) Director, PTCC

Copy to:

1. General Manager(S & T), Northern Railway, Headquarter Office, Baroda House, New Delhi-110001

2. Executive Engineer, Electricity Transmission division-I, U.P. Power Transmission Corporation Itd., Vidyut Colony, Govind Nagar, Kanpur-208006.

ANNEXURE

Case No.: UP-484

Name of the Power Line:

220 KV D/C Unnao-Phoolbagh(Kanpur) Transmission line

मानचित्र स्केत : 1 सेमी=400 मीटर

कुल लम्बाई : 28.435 कि.मी. एस. आर. मान : 15,000 & 10,000 ओम- सेमी

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	NORTHERN RAILWAY					
	Ref. No: 342-SIG/1/PTCC	DATED: 11-06-2019				
	Affected Blocks & Telcom Circuits Details		-			
(4)	T 1 T7 1*					
(A)	Lucknow- Kanpur line.	1	0.0004	9631	4	
1,	Ajgain R/S To Sonic R/S		0.0004 0.0065	9643	. 63	
2,	Sonic R/S To Unnao R/S	6.5	1	6820	29	
3.	Unnao R/S To Magwara R/S	6	0.0042	1		
4	Magwara R/S to Kanpur Cent. R/S	7	0.0353	6500	229	
(B)	Balamau-Unnao line			;		
1,	Makhi R/S To Unnao R/S	5	0.0019	6831	13	
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