



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/UP-494/1136/1138

Date: 27.11.2019

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 Partapur (Jagriti Vihar)- Hapur (765 kV) D/C transmission line.

**Reference:** (i) UPPTCL letter no. 1802/E.T.D./MRT/220 KV Partapur-Hapur dated 22.05.2019  
(ii) BSNL letter no. DET/PTCC/ND/DV-9467/UP-717/2019-2020 dated 02.09.2019  
(iii) Northern Railway letter no. 342-SIG/1/PTCC dated 23.07.2019

The instant PTCC proposal submitted vide ref. (i) has been examined. Vide ref. (ii) above BSNL has 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 5,000 Ohm-cm. Vide ref. (iii) above, the voltage likely to be induced on Block circuits of Northern Railway under Single Line to Ground fault condition has been computed and is enclosed at Annexure-I. 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

*Upendra Kumar*  
27.11.2019

(Upendra Kumar)  
Chief Engineer

*M/C*

मुख्य अभियंता/Chief Engineer  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
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**Copy to:**

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