



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत्संचारविकासप्रभाग

Power Communication Development Division

No.: CEA/PCD/ PTCC/UP-536/795-797

Date: 15.12.2020

**Subject: PTCC proposal for 220 kV DC Amethi to Raibareilly transmission line-
regd.**

- Ref.:** (i) UPPTCL Ref. No. 773/ETDS/220 KV DC Amethi-Raebareilly
transmission line Dated: 06.07.2020
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9751/UP-885/2020-21 Dated: 27.11.2020
(iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2020-
21/08/04 Dated: 14.08.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of Northern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 10,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annex-I and II respectively. The screening factors, as applicable, have been considered.

Telecommunication details from Defense are pending and the power authority has shown urgency for the charging of the line. In view of this kindly take necessary action regarding issuance of **Provisional PTCC route approval for 220 kV DC Amethi to Raibareilly transmission line.**

Encl.: As above.

(Upendra Kumar)
Chief Engineer

To,

MIC

1. The DET (PTCC), BSNL, Northern Zone O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001. (Annex-I only)
2. AESTE/UTS, Northern Railway, Headquarter Office, Baroda House, New-Delhi-110001. (Annex-II only)

Copy to:-

Executive Engineer, Electricity Transmission Division, UPPTCL, 400 kV Sub- Station Campus, Sultanpur-228001.

Case No. : UP-535

Annexure I

Name of the Power Line: 220 KV DC Amethi- Raebareilly Transmission Line

Toposheet Scale : 1cm=500mts

Total Length : 44.724 Kms

S.R. Value : 10,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL Reference No. DET/PTCC/ND/DV-9751/UP-885/2019-20 Date : 27.11.2020					
BSNL Details					
1	Karhaiya Bazar Exchange to 100 m both Sides 100 Pair (100 Meter)	}	IV	less	than 430V
2	Parsalepur Exchange to 100 m both Sides 100 Pair (100 Meter)				

TANUJ

सहायक निदेशक-II/BSNL Dept. D-II
केन्द्रीय विद्या प्रशिक्षण/CEA,
विद्युत विभाग/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-110016

ANNEXURE - II

Case No.: UP-536 Name of the Power Line: 220 kV DC Amethi to Raibareilly transmission line.	Map Scale : 1 cm = 500 m. Route Length : 44.724 km Soil Resistivity : 10,000 Ohm-cm
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S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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Northern Railway Ref. No. 342-SIG/1/PTCC/2020-21/08/04 dated 14.08.2020					
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<u>Affected Blocks & Telecom Circuits Details</u>					
1	Gauriganj R/S to Talakhajuri R/S	Outside IV consideration zone			00
2	Talakhajuri R/S to Amethi R/S	5.3	0.0005	7338	04
3	Amethi R/S to Misrauli R/S	6.9	0.0081	8456	69
4	Misrauli R/S to Antu R/S	2	0.0006	8997	05
5	Antu R/S to Jagesharganj R/S	Outside IV consideration zone			00

Jamini

तनुज / TANUJ
 सहायक निरीक्षक (EVS&S) / Asst. Engr. (EVS&S)
 केन्द्रीय विद्युत प्रशासन / C.P.S.
 विद्युत प्रशासन / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66