



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-515/664-67

Date: 06.11.2020

Subject: PTCC proposal for 765 kV S/C Jhusi to Unnao transmission line - regd

Ref: (i) UPPTCL Ref. No. ETDA-I/ Dated: 18.12.2019
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9726/UP-870/2020-21 Dated: 24.08.2020
(iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2019-20/02/04 Dated: 13.02.2020
(iv) North Eastern Railway Ref No N/242/1(Tele)PTCC Part-I/97 Dated 13.02.2020

The PTCC proposal submitted vide above ref. (i) has been examined. The low frequency induction on Block & Telecom circuits of Northern Railway and North Eastern Railway as per details, furnished vide ref. (iii) and (iv) respectively, has been examined. The Soil Resistivity value has been taken as 20,000 Ohms-cm. Voltages likely to be induced on paralleling Block & Telecom circuits of Northern Railway and North Eastern under single line to ground fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered. BSNL vide ref. (ii) above, has issued No Objection Certificate (NOC).

Telecommunication details from Defense are pending and the power authority has shown urgency for charging of the line. In view of this, kindly take necessary action regarding issuance of Provisional PTCC route approval for 765 kV S/C Jhusi to Unnao transmission line.

Encl.: As above.

06.11.2020

(Upendra Kumar)
Chief Engineer

To,
The DET (PTCC), BSNL, Northern Zone,
O/o PGM (N), QA & Inspection Circle,
D-Tax Building, Eastern Court
Janpath, New Delhi 110001

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Copy to:

1. AESTE (UTS), Northern Railway, Headquarter Office, Baroda House, New Delhi - 110001 (with Annex-I)
2. DRM (S&T), Office of the Divisional Railway Manager (S&T), North Eastern Railway, Varanasi (with Annex-II)
3. Executive Engineer, Electricity Transmission Division - I, UPPTCL, 57-George Town, Prayagraj, Uttar Pradesh - 211002

ANNEXURE - I

Case No.: UP-515 Name of the Power line: 765 kV S/C Jhusi to Unnao transmission line			Map Scale : 1cm = 500 mts Total Length : 238.833 Km. S.R. Value : 20,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

NORTHERN RAILWAY

Ref. No. 342-SIG/1/PTCC/2019-20/02/04 Dated: 13.02.2020

Affected Blocks & Telecom Circuits Details					
1	Magarwara R/S to Unnao R/S	Outside IV consideration zone			0
2	Unnao R/S to Sonik R/S	1.5	0.0020	20000	40
3	Sonik R/S to Ajgan R/S	2.1	0.0008	20000	16
4	Unnao R/S to Bighapur R/S	15.5	0.0018	17600	32
5	Bighapur R/S to Takia R/S	9.5	0.0021	17000	36
6	Takia R/S to Raghuraj Singh R/S	12.3	0.0023	16900	39
7	Raghuraj Singh R/S to Lalganj R/S	12.1	0.0028	15400	43
8	Lalganj R/S to Dalmau R/S	10.6	0.0025	14500	36
9	Dalmau R/S to Jalalpur Dhari R/S	9.1	0.0017	13100	22
10	Jalalpur Dhari R/S to Unchahar R/S	5.5	0.0010	12700	13
11	Dalmau R/S to Radhabalmpur R/S	2.45	0.0009	13300	12
12	Radhabalmpur R/S to Ubrani R/S	2.4	0.0017	12900	22
13	Ubrani R/S to Daryapur R/S	0.9	0.0002	12900	3
14	Daryapur R/S to Lachmanpur R/S	0.5	0.0005	11500	6
15	Lachmanpur R/S to Ramchandrapur R/S	2.2	0.0030	11500	35
16	Ramchandrapur R/S to Unchahar R/S	4.75	0.0006	11500	7
17	Dhirganj R/S to Mauaimma R/S	Outside IV consideration zone			0
18	Mauaimma R/S to Siwaith R/S	4.35	0.0012	15400	18
19	Siwaith R/S to Phaphamau R/S	2.2	0.0002	16200	3
20	Phaphamau R/S to Tharwai R/S	0.75	0.0001	16200	2
21	Tharwai R/S to Sarai Chandi R/S	4.95	0.0014	16500	23
22	Sarai Chandi R/S to Phulpur R/S	3.8	0.0009	17100	15
23	Phulpur R/S to Ugrasenpur R/S	Outside IV consideration zone			0

ANNEXURE - II

Case No.: UP-515 Name of the Power line: 765 kV S/C Jhusi to Unnao transmission line			Map Scale : 1cm = 500 mts Total Length : 238.833 Km. S.R. Value : 20,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	LV in Volts.

NORTH EASTERN RAILWAY

Ref. No. N/242/1(Tele)PTCC Part-I/97 Dated: 13.02.2020

<u>Affected Blocks & Telcom Circuits Details</u>					
1	Handia Khas to Saidabad	6.75	0.0044	15400	68
2	Saidabad to Ramnathpur	7.75	0.0010	15600	16
3	Ramnathpur to Bhati	0.5	0.0001	18000	2

R.P. Singh
 Director
 North Eastern Railway
 Dispur, Assam
 Date: 13.02.2020