



सत्यमेव जयते

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-479/ 169-177

Date: 27.02.2020

The Divisional Engineer (Telecom), BSNL  
PTCC O/o GM (North), Inspection Circle (T & D),  
CTS Compound, Netaji Nagar,  
Africa Avenue, New Delhi - 110023

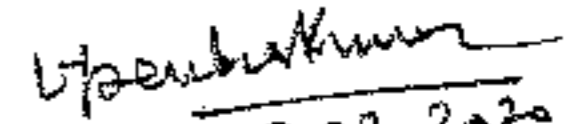
**Subject:** PTCC proposal of 765 kV S/C Ghatampur-Agra transmission line.

**Ref. :** (i) GTL Ref. No. GTL/KNP/GATL/PTCC/176 Dated: 03.04.2019  
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9654/UP-826/2019-2020 Dated: 03.01.2020  
(iii) North Central Railway Ref. No. NCR/S&T/2074/telecom/PTCC(part-I) Dated: 02.08.2019  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1591 Dated: 11.11.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables and block circuits of North Central Railways as per details furnished vide ref. (ii) and ref. (iii) respectively has been examined. The Soil Resistivity value has been taken as 15,000 / 25,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables and Railway block circuits under single line to ground fault condition are enclosed at Annex-I and Annex- II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

**Encl.:** As above.

  
27.02.2020

(Upendra Kumar)  
Chief Engineer

**Copy to:**

1. General Manager(S & T), Northern Railway, Headquarter Office, Baroda House, New Delhi-110001(Annex.-II only).
2. Associate Manager, Ghatampur Transmission limited, 644 & 644A, Lakhanpur Co-Operative Housing Society, Vikas Nagar, Kanpur-208024.

M/c

Case No. : CEA/PCD/PTCC/UP-479

Name of the Power Line: 765 KV S/C Ghatampur-Agra Transmission Line

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 228 Kms

S.R Value : 15,000 / 25,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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**BSNL**

Reference No. DET/PTCC/ND/DV-9654/UP-826/2019-20  
Date : 03.01.2020

BSNL Details					
1	Ghatampur Exch. to Musanagar ( 200 Pr.) 5 Km				
2	Ghatampur Exch to Sajeti Road ( 200 Pr.) 4 Km				
3	Ghatampur Exch to Sajeti Road ( 200 Pr.) 4 Km				
4	Pukhrayam Exch to Bhaginipur ( 50 Pr) 4 Km				
5	Pukhrayam Exch to Market Pukhrayam ( 400 Pr) 1 Km				
6	Sikandra TE to Sikandra Market ( 100 Pr) 1 KM				
6A	Musanagar TE to Moosanagar market ( 50 Pr) 500 Mtr				
7	OCB Exch Etawah to Chherahav Pillar ( 800 Pr) 4 Km				
8	Pachraha to Chipatti ( 200 Pr) 1.5 Km				
9	OCB Exch. Etawah to Katra Kapoor Chand ( 800 Pr) 2.6 Km				
10	OCB Exch Etawah to Jain Mandir Laipura ( 400 Pr) 4.1 km				
11	Baldev Pillar to madaiya Astal laipura ( 00 Pr) 1.4 Km				
12	Jaswanthnagar exch to Ludhpura ( 400 Pr) 5 Km				
13	Jaswanthnagar Exch to Police Station Jaswanthnagar ( 400 pr) 1.5 Km				Out of Parallelism
14	Auriya Exch to Canal ( 400 pr) 2.5 Km				
15	Auriya Exch to Indian Oil, Kanpur Road ( 200 Pr.) 1.5 Km				
16	Auriya Exch to Court ( 400 Pr.) 2.5 Km				
17	Auriya Exch to Kanpur Central bank ( 200 Pr.) 1.8 Km				
18	Kakor Exch. to Mukhyalay Jila Auriya ( 200 Pr) 1.2 Km				IV less than 430V
19	Phaphund exch to Corporation bank, Thana Phaphund ( 100 Pr) 1.3 Km				
20	Ajitmal Exch to Babarpur Dhakghar ( 200 pr) 2.5 Km				
21	Ajitmal Exch to janta mahavidyalaya ( 200 pr) 1.8 Km				

IV less than 430V

Out of Parallelism

IV less than 430V

*[Signature]*  
29/2/2020  
Chief Engineer  
E.A.  
Department of Power  
Govt. of India  
New Delhi

*[Signature]*  
03/01/2020

## ANNEXURE -II

Case No.: UP-479					
Name of the Power line: 765 S/C Ghatampur-Agra transmission line.		Map Scale : 1 cm=500 mts Total Length : 228 km Soil Resistivity : 15,000/25,000 ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

<b>North Central Railway</b> letter no:- NCR/S&T/2074/telecom/PTCC(part-I) dated 02.08.19					
<b>Affected Blocks &amp; Telecom circuit details</b>					
<b>Shikohabad-Kanpur section</b>					
1	Shikohabad to Kaurara	Outside IV consideration Zone			0
2	Kaurara to Bhadan	7	0.0022	17982	39
3	Bhadan to Balrai	9.8	0.0038	17192	65
4	Balrai to Jaswant Nagar	9.7	0.0028	16140	45
5	Jaswant Nagar to Sarai Bhopat	3	0.0010	15000	15
6	Sarai Bhopat to Etawah	2.7	0.0003	13596	4
7	Etawah to Ekdil	9	0.0012	12543	15
<b>Kanpur-Jhansi section</b>					
8	Chaunrah to Pokhrayan	Out of Parallelism			0
9	Pokhrayan to Malasa	1.8	0.0028	16052	45
10	Malasa to Lalpur	0.5	0.0001	18904	2
<b>Bhimsen-Khairar section</b>					
11	Ghatampur to Dohru	2	0.0004	18904	7
12	Dohru to Hamirpur road	9.7	0.0027	18974	52
13	Hamirpur road to Dapsaura	2.1	0.0038	18900	72
14	Dapsaura to Yamuna South Bank	Out of Parallelism			0

29/07/2019

मुख्य अभियंता - Chief Engineer  
केंद्रीय विद्युत नियंत्रण/ C.E.A.  
विद्युत मंत्रालय, Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Tele : 23019746

Annex - III

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

B/46937/Sigs 7(b)/1591/

11 Nov 2019

Ghatampur Transmission Limited  
644&644A, Lakhampur Co-operative Housing Society,  
Vikas Nagar, Kanpur, Pin Code-208024 (U.P.)

PROPOSAL FOR PTCC APPROVAL OF 765KV S/C GHATAMPUR-AGRA T/L

1. Ref your letter No GTL/KNP/GATL/PTCC/176 dt 03 Apr 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.



(A Rawat)  
Maj  
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/a GM (North); BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Netaji Nagar, New Delhi-110023

for information