



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-500/190-193

Date: 09.03.2020

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 Agra-Greater Noida transmission line.**

Ref. :	(i) GTL Ref. No.GTL/April/143	Dated: 24.04.2019
	(ii) BSNL Ref. No. DET/PTCC/ND/DV-9653/UP-825/2019-2020	Dated: 03.01.2020
	(iii) North Central Railway Ref. No. NCR/S&T/2074/telecom/PTCC(part-I)	Dated: 02.08.2019
	(iv) North Eastern Railway Ref. No. N/242/0(Tele)(PTCC)-Pt.-I/437	Dated: 03.07.2019
	(v) Defense Ref. No. B/46937/Sigs 7(b)/1595	Dated: 13.11.2019

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

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

**Encl.:** As above.

उपेन्द्र कुमार सिन्हा  
for 09.03.2020  
(Upendra Kumar)  
Chief Engineer

**Copy to:**

1. Dy. CSTE/HQ,NCR/Allahabad, HQ's Office ( S&T Branch), Ganga Parisar, Subedarganj, Allahabad- 211015. (Annex-II only)
2. Dy. Chief Network Manager/FOIS, O/o General Manager (S&T), North Eastern Railway, Gorakhpur. (Annex-III only)
3. Manager-Transmission, Ghatampur Transmission limited, House No. B-218,Sigma 1, Gautam Buddh Nagar, Uttar Pradesh-201308.

M/C [Signature]

Case No. : UP - 500

Annexure I

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

Toposheet Scale : 1cm=500mts  
Total Length : 158.54 Kms  
S.R Value : 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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<b>BSNL</b> Reference No. DET/PTCC/ND/DV-9653/UP-825/2019-20 Date : 03.01.2020					
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BSNL Details					
1	Aligarh to Iglas ( 50 Pr)	}			
2	Sasni to Iglas ( 200 Pr & 100 Pr.)				
3	Sasni to Hathras ( 200 Pr.)				
4	Hathras to Hathras ( 400 Pr. & 200 Pr.)				
5	Hathras to Jalesar ( 50 Pr.)				
6	Hathras to Hathras ( 200 Pr.)				
7	Vehgaon to Berni ( 50 Pr.)				
8	Vehgaon to sasni NIB ( 20 Pr)				
9	Jalesar to Nagloi Chhakoni ( 50 Pr)				

← IV less than 430V →

29.03.2020  
 RAGHUNDRAPRATAP SINGH  
 Director  
 Ministry of Power  
 Govt. of India  
 New Delhi-68

## ANNEXURE II

<b>Case No.: UP-500</b> <b>Name of the Power line: 765KV S/C Agra to Greater Noida</b> Transmission line			<b>Map Scale</b> : 1cm=500mts <b>Total Length</b> : 158.54Km. <b>S.R. Value</b> : 25,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

NORTH CENTRAL RAILWAY					
Ref. No: NCR / S&T / 2074 / Tele. / PTCC (Part-1) : DATED: 02-08-2019					
Affected Blocks & Telcom Circuits Details					
1	Daudkhan - Mandrak	Outside IV consideration zone			0
2	Mandrak - Sasni	5	0.0007	11500	8
3	Sasni - Hathras	9	0.0028	11750	33
4	Hathras - Pora	9.5	0.0057	12000	68
5	Pora - Jalesar Road	4	0.0048	12200	59
6	Jalesar Road - Chamrola	5	0.0015	12500	18
7	Chamrola - Barhan	8	0.0011	13000	14
8	Barhan - Mitawali	8	0.0010	13500	14
9	Mitawali - Tundla	Outside IV consideration zone			0
10	Tundla - Hirangaon	2	0.0034	15000	51
11	Hirangaon - Firozabad	2.5	0.0029	15500	45
BARHAN - EATH					
1	Barhan - Shawla Tehu	4.5	0.0014	12000	17
2	Shawla Tehu - Shah Nagar Timaura	1	0.0005	11750	6
3	Shah Nagar Timaura - Jalesar City	1.5	0.0002	11000	2
HATHRAS - HATHRAS FORT					
1	Hathras - Hathras Fort	1.5	0.0012	11500	14

09.03.2020  
 09.03.2020  
 RAGHVENSHI PRASAD SINGH  
 Director  
 Ministry of Power  
 भारत सरकार / Ministry of Power  
 नई दिल्ली / New Delhi

**ANNEXURE -III**

<b>Case No.:</b> UP-500 <b>Name of the Power line:</b> 765KV S/C Agra to Greater Noida Transmission line	<b>Map Scale :</b> 1cm=500mts <b>Total Length :</b> 158.54Km. <b>S.R. Value :</b> 25,000 Ohms-cm
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S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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**NORTH EASTERN DETAILS**

Ref. No: N / 242 / 0(Tele)(PTCC) -Pt.-I / 437 DATED: 03-07-2019

**Affected Blocks & Telcom Circuits Details**

1	Mendu – Rati Ka Nagla	1	0.0002	11000	2
2	Mendu – Hathras City	0.5	0.0001	11500	1
3	Hathras City – Mursan	1	0.0002	10750	2

मध्य प्रदेश  
 राज नारायण सिंह  
 RAGHUNATH RARATAP SINGH  
 निदेशक/Director  
 केन्द्रीय विद्युत नियंत्रण आयोग/C.E.A.  
 विद्युत मंत्रालय/Ministry of Power  
 भारत  
 नई दिल्ली-110011, India

09/03.2020

Tele : 23019746

(Annex - IV)

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


B/46937/Sigs 7(b)/1595/

13 Nov 2019

Ghatampur Transmission Limited  
House No B-218, Sigma 1, Gautambuddh Nagar,  
Uttar Pradesh-201308

**PROPOSAL FOR PTCC APPROVAL OF 765KV S/C AGRA TO GREATER NOIDA  
TRANSMISSION LINE**

1. Ref your letter No. GTL/April/143 dt 24 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  
Kartwaria Sarai, New Delhi - 110016

Divisional Engineer Telegraph (PTCC)  
O/o GM (North); BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Netaji Nagar, New Delhi-110023

for information