



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-495/318-21

Date: 14.07.2020

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

Ref. : (i) GTL Ref. No. GTL/KNP/GHTL/PTCC/278 Dated: 06.06.2019
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9701/UP-857/2019-2020 Dated: 27.05.2020
(iii) North Central Railway Ref. No. NCR/S&T/2074/Tele./PTCC(Part-1) Dated: 19.07.2019
(iv) North Eastern Railway Ref. No. N/242 / 0(Tele)(PTCC)-Pt.-1/ 518-521 Dated: 31.07.2019
(v) Defense Ref. No. B/46937/Sigs 7(b)/1711 Dated: 11.11.2019

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), (iii) and (iv) respectively has been examined. The Average Soil Resistivity value has been taken as 25,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables and Block and Telecom circuits of North Central Railway and North Eastern Railway 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.

Upendra Kumar
14.07.2020

(Upendra Kumar)
Chief Engineer

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

M/C

Copy to:

1. Dy. CSTE/HQ,NCR/Allahabad; North Central Railway, HQ's Office (S&T Branch), Ganga Parisar, Subedarganj, Allahabad- 211015. (Annex-II only)
2. Dy. CSTE/ Plg. O/o General Manager (S&T), North Eastern Railway, Gorakhpur. (Annex-III only)
3. Manager-Transmission, Ghatampur Transmission limited, 644 & 644A, Lakhanpur Co-operative Housing Society, Vikas Nagar, Kanpur-208024.

Case No. :

Annexure I

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

Toposheet Scale : 1cm=500m
 Total Length : 40.908 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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BSNL

Reference No. DET/PTCC/ND/DV-9701/UP-857/2019-20
 Date : 27.05.2020

BSNL Details					
1	Moosa nagar to Moosa Nagar Market (100 Pr.) 0.8 Km	}	IV less than 430V		
2	Malsasa to Malasa vco bank (50 Pr.) 4 Km				
3	Pukhrayan to pukhrayan marke (400 Pr.) 1.2 Km				
4	Pukhrayam to Bhaginipur (50 Pr) 3 Km	}	Outside IV consideration zone		
5	Sikandra TE to Sikandra Market (200 Pr) .8 Km				
6	Rajpur to Rajpur Market (100 Pr) .4KM	}	Outside IV consideration zone		
6A	Sandalpur TE to Sandalpur BOB(50 Pr) .4 km				
7	Mandalpur TE to Mandalpur BOB (50 Pr) .6 Km	}	IV less than 430V		
8	Shahjanpur TE to Shahjanpur Thana & BOB (50 Pr) .8 Km				
9	Ghatampur chaura to Captain sukhbashi Market & Mahavidhyalaya Ghatampur (200 Pr) .6 Km				
10	TE Exchange to PHD choura (800 Pr) 3 km	}	IV less than 430V		
11	PHD Choura to Gail (200 Pr) 2.5 Km				
12	TE Exchange to NTPC (400 Pr) 1.2 KM				
13	TE Exchange to Gail (800 pr) 1.1 Km				
14	Gail pillaer to Gailcolony (400 pr) 1.2 Km				
15	Gail colony to Phase 3 (200 Pr.) 3 Km				
16	TEExchange to Ravlurm (200 Pr.) 2.8 Km				
17	PHD choura to Stm rc (100 Pr.) 1 Km				
18	Gail colony to colony (50 Pr) 2 Km				
19	Bidhundna to Bidhundna Toutn (400 Pr) 3.4 Km				
20	Airwakata to Airwakatas Hospital (200 pr) 4.8 Km	}			
21	Airwakata to Airwakata them(50 pr) 2.4 Km				
22	Umesari to umasari Local (100 pr) 1.8 KM				
23	Kudaskat to kudascalocal (100 pr) 1.2 KM				
24	Usarahar to USR Local (400 pr) 7 KM				
25	Kishri TE to Kishni Tehsil (50 pr) 1KM				

19/5/20
 14/05/20
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत विभाग/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Case No. :

Annexure I

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

Toposheet Scale : 1cm=500ms

Total Length : 112.05 Km

S.R Value : 25,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Factor (pr)	Value
26	Kartala Exchange to viljage sarajanpur (400 pr) 1 KM				
27	Dholna Exchange to Police chowk (50 pr)2KM				
28	Bilram Exchange to Naglapatti (50 pr)2.5 KM				
29	Garhi Edge to Union bank road (20 pr).8KM				
30	Mohanpura Edge to Piwari road (50 pr)3KM				
31	Amanpur Exdge to Mohanpur chaura &Kasgani chaura Road (100 pr)1.5 KM				
32	Raipur Dalpatpur EX to Jirouli dhoun singh Road (100 pr) 3KM				
33	Bijauli Ext to Pali muquimpur Road (200 pr) 6 KM				
34	Bijauli to Badhol Road (100 PR) 4 km				
35	Chharra EX to Dadon EX (50 pr) 8 km				
36	Partapur to Sherpur Road (200pr)2.5 KM				
37	Danpur to Bhimpur Diraha (200 pr) 4 KM				
38	Harsingpur to Murshadpur (20 pr)3 KM				
39	Harsingpur to Dharampur Biswa (10 pr)2.5 KM				
40	Harsingpur to Shahddin Nagar (20 pr) 2.5 KM				
41	Harsingpur to Mortpur (50 pr) 1.5 KM				
42	Harsingpur to Mahmopur (50 pr)4 KM				

IV less than 430V

lek
मुख्य अभियंता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

ANNEXURE-II

Case No.: UP-495 Name of the Power line: 765KV S/C Ghatampur – Hapur Transmission line.			Map Scale : 1cm=500mts Total Length : 410.905Km. S.R. Value : 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: 19-07-2019		
Affected Blocks & Telecom Circuits Details					
SHIKOHABAD – FARRUKHABAD					
1	Mainpuri - Bhogaon	3.5	0.0049	11721	57
2	Bhogaon – Tokhru Halt	2.7	0.0071	11529	82
ETAWAH – KANPUR					
1	Acchalda - Pata	2	0.0003	14586	04
2	Pata - Phaphund	8.2	0.0019	16537	31
3	Phaphund - Kanchausi	9.6	0.0055	15609	86
4	Kanchausi - Jhinhjak	3.8	0.0004	16097	06
5	Jhinhjak - Ambiapur	2.7	0.0003	16173	05
KANPUR – JHANSI					
1	Pokhrayan - Malasa	3.6	0.00327	17707	58
2	Malasa - Lalpur	1	0.0001	17901	2
BHIMSEN – KHAIRAR					
1	Ghatampur - Dohru	5.3	0.0016	19413	31
2	Dohru – Hamirpur Road	7.3	0.0088	19431	171
3	Hamirpur Road - Dapsaura	3.4	0.0038	19652	75
4	Dapsaura – Yamuna South Bank	Out of parallelism			0

19/7
 Chief Engineer
 Central Power Distribution / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE-III

Case No.: UP-495 Name of the Power line: 765KV S/C Ghatampur – Hapur Transmission line.			Map Scale : 1cm=500mts Total Length : 410.905Km. S.R. Value : 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 EASTERN RAILWAY					
Ref. No: N/242 / 0(Tele)(PTCC)-Pt.-1/ 518-521 DATED: 31-07-2019					
Affected Blocks & Telcom Circuits Details					
1	Kasganj - Marahra	4.9	0.0057	6927	39
2	Marahra - Agasauli	204	0.0003	7073	02
3	Kasganj – Badhari Kala	3.7	0.0007	7121	05
4	Kasganj- Kasganj city	1.1	0.0002	7317	02

192
14.07.20
मुख्य अभियंता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Tele : 23019748

(Annexure -IV)

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

UP-495

B/46937/Sigs 7(b)/1711/

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 (QUAD ACSR BERSIMIS)
GHATAMPUR-HAPUR T/L

1. Ref your letter No GTL/KNP/GHTL/PTCC/278 dt 06 Jun 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 (Comm)
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
Kahwaria 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