



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

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No.: CEA/PCD/ PTCC/UP-521/777-779

Date: 02.12.2020

**Subject: PTCC proposal for 400 kV D/C Quad Jawaharpur TPS- Firozabad transmission line-regd.**

**Ref.:** (i) PGFTL Ref. No. NR-3/FZD/400 kV DC Quad/PTCC Dated: 13.01.2020  
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9806/UP-922/2020-21 Dated: 27.11.2020  
(iii) North Central Railway Ref. No. NCR/S&T/2074/telecom/PTCC (part-I) Dated: 03.06.2020  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1962 Dated: 01.06.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Central 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 North Central Railway under Single Line to Ground fault condition are enclosed at Annex-I and II respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC). (a copy enclosed as Annex-III).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above.

उपेन्द्र कुमार

(Upendra Kumar)  
Chief Engineer

To,

1. The DET (PTCC), BSNL, Northern Zone O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001.(Annex-1 & Annex-III)
2. ASTE/TELE/HQ, North Central Railway, HQ's Office 9S&T Branch), Ganga Parisar, Subedarganj, Allahabad-211015. (Annex-II only)

Copy to:-

1. Sr. DGM (PJFTL- Firozabad), House No. 91, 1<sup>st</sup> Floor, Sector -2, Vibhav Nagar, Firozabad-283203.

Case No. : UP-521

Name of the Power Line: Jawaharpur TPS-Firozabad 400 KV DC Quad Line

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 7.563 Kms

S.R Value : 12,000 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-9806/UP-922/2020-21 Dated:- 27.11.2020

Date :

BSNL Details					
1	Sabeet Road TE to GT Road Tiraha 100 Pair ( 0.3 KM)				
2	GT Road Tiraha to Near canara bank 50Pair ( 0.4 KM)				
3	GT Road Tiraha to Sabeet Road 50Pair ( 0.3 KM)				
4	Sabeet Road to Malawan Thana 200Pair ( 1.5 KM)				
5	Sabeet Road TE to Main Market 100Pair ( 0.25 KM)				
6	Sabeet Road TE to GSM degree Village 50 Pair ( 0.3 KM)				
7	Khairgarh TE to Nangla Himet 100 Pair ( 1 KM)				
8	Jasrana TE to Etah Road 50 Pair ( 1 KM)				
9	Padum TE to Etah Road 100 Pair ( 0.8 KM)				
10	Padum TE to Sikohabad Road ( Near IIT) 50 Pair ( 0.7 KM)				
11	Makkhanpur TE to Railway stn Road 50 Pair ( 1 KM)				
12	Makkhanpur TE to By Pass 50 Pair ( 1 KM)				
13	Eka TE to Mustafabad Road ( Bisli Gaon) 50 Pair ( 1 KM)				
14	Dawrai Exch to DM Office 700 Pair ( 0.2 KM)				
15	Dawrai Exch to SP Office 100 Pair ( 0.2 KM)				
16	SP Office to Rifal club 100 Pair ( 0.5 KM)				
17	DM Office to Anand Lok Colony 10 Pair ( 0.8 KM)				
18	DM Office to DM Compound 400 pair ( 0.2 KM)				
19	Rifal club to DM House 50 pair ( 1 KM)				
20	DM House to DJ House 100 pair ( 1 KM)				
21	DM office to Income Office 50 Pair( 0.5 KM)				

IV less

than 430V

Case No.: UP-521

Annexure IName of the Power Line: Jawaharpur TPS-Firozabad 400 KV DC  
Quad LineToposheet Scale : 1cm=500mts  
Total Length : 70.662 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 Volt
<b>BSNL</b>					
Reference No. DET/PTCC/ND/DV-9806/UP-922/2020-21 Dated:- 27.11.2020					
Date :					
BSNL Details					
22	Exchange Nangla Mirja to Durga Nagar 400 Pair ( 0.6 KM)				
23	Exchange Nangla Mirja to Desh Deepak 100 Pair ( 0.8 KM)				
24	Exchange Nangla Mirja to Ram Leela Ground 100 Pair ( 0.8 KM)				
25	Exchange Nangla Mirja to Police Chauki 200 Pair ( 0.5 KM)				
26	Kotla Chungi to Kotla Road gali 800Pair ( 1.2 KM)				
27	Repura mod to Tilak Nagar 50 Pairx 1 , 20 Pairx 1 ( 1.2 KM)				
28	Suhag nagar TE to Bada Bijli Ghar 800 Pair ( 0.4 KM)				
29	Suhag nagar TE to Achal Palace 800 Pair ( 0.4 KM)				
30	Achal Palace to Himayuganj Mandi 700 Pair ( 0.5 KM)				
31	Sally Pillar to Mandi Pillar 100 Pair ( 1 KM)				
32	Mandi Pillar to rattan Vihar 100 Pair ( 1.2 KM)				
33	Suhag nagar TE to Dr Fateh Singh House 200 Pair ( 0.2 KM)				
34	Bada Bijli Pole to railway fatak 400 Pair ( 0.8 KM)				
35	Railway fatak to DRM Office 500 Pair ( 0.3 KM)				
36	Raitan Vihar to Bhargav palace 100 Pair ( 1.2 KM)				
37	Exchange Nai basti to Station Road 200 Pair( 1.48 KM)				
38	Exchange Nai basti to Paimshwer Gate 400 Pair( 3.28 KM)				
39	Exchange Nai basti to jain mandir 1000 Pair x 2 ( 0.88 KM)				
40	Exchange Nai basti to jain mandir 800 Pair x 2( 0.88 KM)				

IV less

than 430V

Case No.: P-517

Annexure I

Name of the Power Line: Jawaharpur TPS-Firozabad 400 KV DC Quad Line

Toposheet Scale : 1cm=500mts  
 Total Length : 72.663 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	
41	Exchange Nai basti to emporia Jain Nagar 800 Pair( 1.25 KM)	}				
42	Exchange Nai basti to mahaveer ganj 400 Pair ( 0.35 KM)					
43	Company Bagh to arya Nagar 800 Pair( 1KM)					
44	Arya Nagar to Mathura Nagar 800 Pair(0.5KM)					
45	Exchange Nai basti to StationRoad-II 800 Pair( 0.7 KM)					
46	Exchange Nai basti to Center Talkies 1000 Pair x 1 , 800 Pair x 4 ( 0.46 KM)					
47	Exchange Nai basti to Barfkhana 800 Pair x 2 ( 0.76 KM)					
48	Barfkhana to Post office old 400 Pair ( 0.23 KM)					
49	Exchange Nai basti to Viabhav nagar 800 Pair ( 1.8 KM)					
50	Exchange Nai basti to Monark Hotel 200 pair( 1.2 KM)					
51	Barfkhana to Chauki Gate 200 Pair ( 1.3 KM)					
52	Firozabad Club to Tata paint 200 pair ( 2.8 KM)					
53	Firozabad Club to saraswati nagar 100 pair ( 1.3 KM)					
54	Firozabad Club to Vaibhav nagar-II 400 pair ( 1.2 KM)					
55	Exchange Nai basti to Rasulpur Thanal 800 Pair x 2, 400 pair x 1 (3 KM)					
56	Barfkhana to Circular Road 400 Pair ( 1.5 KM)					
57	Sadar market to Kotla Road 400 pair ( 1.5 KM)					
58	Emamuda to gali Bohran 200 pair x 1, 100 Pair x 1 ( 0.8 KM)					
59	Hapur to UrbasiChauraha 400 Pair ( 0.8 KM)					

IV less

tham

430V

तनुज / TANUJ  
 सहायक निरीक्षक-II / Asst. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.S.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

B/46937/Sigs 7(b)/1962/

01 Jun 2020

Sr. DGM  
Powergrid Jawaharpur Firozabad Transmission Limited  
House No. 91, 1st Floor, Sector-2,  
Vibhav Nagar, Firozabad-283203(U.P.)

**PTCC CLEARANCE FOR JAWAHARPUR TPS-FIROZABAD 400KV D/C QUAD LINE**

1. Ref your letter No NR-3/FZD/400 kv DC Quad/PTCC/ dt 13 Jan 2020. (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.

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

} for information

## ANNEXURE - II

Case No.: UP-521  
 Name of the Power Line: 400 kV D/C Quad Jawaharpur  
 TPS- Firozabad transmission line.

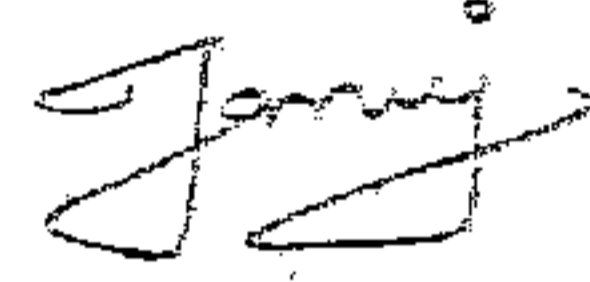
Map Scale : 1 cm = 500 m.  
 Route Length : 70.663 km  
 Soil Resistivity : 10,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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North Central Railway Ref. No. NCR/S&T/2074/telecom/PTCC (part-I) dated 03.06.2020

**Affected Blocks & Telecom Circuits Details**

1	Shikohabad to Makhanpur	Outside IV consideration zone			00
2	Makhanpur to Firozabad	13.5	0.0039	14983	58
3	Firozabad to Hirangaon	0.25	0.00003	14488	01



जनसिंह / J. Singh  
 सहायक निदेशक-III/Asst. Secy. III  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi-65