



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/UP-518 / 782-784

Date: 02.12.2020

Subject: PTCC proposal for LILO of 220 kV Firozabad (220 kV) – Agra (765 kV PG) line at 400 kV Firozabad-regd.

Ref.: (i) PGFTL Ref. No. NR-3/FZD/220 kV DC/PTCC Dated: 13.01.2020
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9808/UP-924/2020-21 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)/1959 Dated: 02.03.2020

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,

MIC

1. The DET (PTCC), BSNL, Northern Zone O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001. (Annex-I & 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, 1st Floor, Sector -2, Vibhav Nagar, Firozabad-283203.

Case No. : 27-5-18

Annexure I

Name of the Power Line: LILO of 220 KV Firozabad (220 KV) - Agra
(765 KV) Line at Firozabad

Toposheet Scale : 1cm=500mts

Total Length : 10.92 Kms

S.R. Value : 10000 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-9808/UP-924/2020-21 Dated:- 27.11.2020

Date :

BSNL Details					
1	Dawrai Exch to DM Office 700 Pair (0.2 KM)				
2	Dawrai Exch to SP Office 100 Pair (0.2 KM)				
3	SP Office to Rifal club 100 Pair (0.5 KM)				
4	DM Office to Anand Lok Colony 10 Pair (0.8 KM)				
5	DM Office to DM Compound 400 pair (0.2 KM)				
6	Rifal club to DM House 50 pair (1 KM)				
7	DM House to DJ House 100 pair (1 KM)				
8	DM office to Income Office 50 Pair(0.5 KM)				
9	Exchange Nangla Mirja to Durga Nagar 400 Pair (0.6 KM)				
10	Exchange Nangla Mirja to Desh Deepak 100 Pair (0.8 KM)				
11	Exchange Nangla Mirja to Ram Leela Ground 100 Pair (0.8 KM)				
12	Exchange Nangla Mirja to Police Chauki 200 Pair (0.5 KM)				
13	Kotla Chungi to Kotla Road gali 800Pair (1.2 KM)				
14	Repura mod to Tilak Nagar 50 Pairx 1 , 20 Pairx 1 (1.2 KM)				
15	Suhag nagar TE to Bada Bijli Ghar 800 Pair (0.4 KM)				
16	Suhag nagar TE to Achal Palace 800 Pair (0.4 KM)				
17	Achal Palace to Himayuganj Mandi 700 Pair (0.5 KM)				
18	Sally Pillar to Mandi Pillar 100 Pair (1 KM)				
19	Mandi Pillar to rattan Vihar 100 Pair (1.2 KM)				
20	Suhag nagar TE to Dr Fateh Singh House 200 Pair (0.2 KM)				
21	Bada Bijli Pole to railway fatak 400 Pair (0.8 KM)				
22	Railway fatak to DRM Office 500 Pair (0.3 KM)				
23	Rattan Vihar to Bhargav palace 100 Pair (1.2 KM)				

IV less

than 430V

Case No. : 12-5-5

Annexure I

Name of the Power Line: LIL of 220 KV Firozabad(220 KV) – Agra
(765 KV) Line at FirozabadToposheet Scale : 1cm=500mts
Total Length : 10.97 Kms
S.R Value : 10000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
24	Exchange Nai basti to Station Road 200 Pair(1.48 KM)	}			
25	Exchange Nai basti to Paimshwer Gate 400 Pair(3.28 KM)				
26	Exchange Nai basti to jain mandir 1000 Pair x 2 (0.88 KM)				
27	Exchange Nai basti to jain mandir 800 Pair x 2(0.88 KM)				
28	Exchange Nai basti to emporia Jain Nagar 800 Pair(1.25 KM)				
29	Exchange Nai basti to mahaveer ganj 400 Pair (0.35 KM)				
30	Company Bagh to arya Nagar 800 Pair(1KM)				
31	Arya Nagar to Mathura Nagar 800 Pair(0.5KM)				
32	Exchange Nai basti to StationRoad-II 800 Pair(0.7 KM)				
33	Exchange Nai basti to Center Talkies 1000 Pair x 1 , 800 Pair x 4 (0.46 KM)				
34	Exchange Nai basti to Barfkhana 800 Pair x 2 (0.76 KM)				
35	Barfkhana to Post office old 400 Pair (0.23 KM)				
36	Exchange Nai basti to Viabhav nagar 800 Pair (1.8 KM)				
37	Exchange Nai basti to Monark Hotel 200 pair(1.2 KM)				
38	Barfkhana to Chauki Gate 200 Pair (1.3 KM)				
39	Firozabad Club to Tata paint 200 pair (2.8 KM)				
40	Firozabad Club to saraswati nagar 100 pair (1.3 KM)				
41	Firozabad Club to Vaibhav nagar-II 400 pair (1.2 KM)				
42	Exchange Nai basti to Rasulpur Thanal 800 Pair x 2, 400 pair x 1 (3 KM)				

IV less

than 430V

Case No. : 253

Annexure I

Name of the Power Line: LILO of 220 KV Firozabad(220 KV) - Agra
(765 KV) Line at Firozabad

Toposheet Scale : 1cm=500mts
Total Length : 10.42 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
43	Barfkhana to Circular Road 400 Pair (1.5 KM)				
44	Sadar market to Kotla Road 400 pair (1.5 KM)				
45	Emamuda to gali Bohran 200 pair x 1, 100 Pair x 1 (0.8 KM)				
46	Hapur to UrbasiChauraha 400 Pair (0.8 KM)				

तनुज / TANUJ
सहायक निदेशक-II / Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi-68

Case No.: UP-518 Name of the Power Line: LILO of 220 kV Firozabad (220 kV) – Agra (765 kV PG) line at 400 kV Firozabad.		Map Scale : 1 cm = 500 m. Route Length : 10.921 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)

North Central Railway Ref. No. NCR/S&T/2074/telecom/PTCC (part-I) dated 03.06.2020					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Makhanpur to Firozabad	7.9	0.0046	7728	36
2	Firozabad to Hirangaon	1.1	0.0001	8364	01



तनुज / TANUJ
 सहायक निदेशक-II / Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

Tele : 23019746

UP-513
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)/1959/

02 Mar 2020

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

**PTCC CLEARANCE FOR LILO OF 220KV FIROZABAD (220KV)-AGRA (765KV PG) LINE AT
400KV FIROZABAD**

1. Ref your letter No NR-3/FZD/220kv DC/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.


(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

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for information