

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग Power Communication Development Division

No.: CEA/PCD/ PTCC/UP-512/ 74-76

Date: 28.01.2020

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 220 kV Ator-Madhuban Bapudham line on NBMC tower & D/C/M/C Monopole.

Ref.: (i) UPPTCL ref. No.1840 ETD-II/GZB

Dated: 10.10.2019 Dated: 09.01.2020

(ii) BSNL ref. No. DET/PTCC/ND/DV-9613/UP-809/2019-20
 (iii) Northern Railway ref. No. 342-SIG/1/PTCC/2019-20/10/5

Dated: 18.10.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables and block circuits of Northern Railways as per details furnished vide ref. (ii) and ref. (iii) respectively has been examined. The Soil Resistivity value has been taken as 5,000 Ohms-cm, as per data submitted by Power Authority. 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.

Telecommunication details from Defense are pending and the power authority has shown urgency for charging the line. In view of this, you are requested to issue provisional PTCC route approval.

Encl.: As above.

28.01202a

(Upendra Kumar) Chief Engineer

Copy to:

m/c

1. General Manager(S & T), Northern Railway, Headquarter Office, Baroda House, New Delhi-110001(Annex.-II only).

2. Executive Engineer, Electricity Transmission Division-II, U.P. Power Transmission Corporation Ltd., 132 kV Sub-station, Lal Kuan, B.S.R. Road, Ghaziabad-201002.

Case No.: UP - 512

Name of the Power Line: 220 KV Ator- madhuban bapudham Line (12

KM) on NBMC Tower and D/C/M/C

Monopole

Annexure |

Toposheet Scale : 1cm=500mts Total Length

12 Kms

S.R Value:

| | TATOTIOPOIE | | S.R Value: | 5,000 | Ohm-cm |
|------------------------------|--|------------|--------------|----------------------|-------------|
| \$1. No. | Name of Telecom Line | LOP in Kms | MC in Ohms | Fault Current (Amps) | IV in Volts |
| BSNL Reference Date: 0 | e No. DET/PTCC/ND/DV-9613/UP-809/2019-20 9.01.2020 | | | | |
| | BSNL Details | | | | |
| 1 | Duhai to Morta Road (100 pair) 2 KM |) | | | |
| 3 | Bahadurpur to Shamsher (100 Pair) 3 KM Bahadurpur to Nangla to Ator Road (100 pair) 4 KM | > | FV less that | 4201 | |
| 4 | Sahupur to Morta Road (100 Pair) 4 KM | } | | | |
| " | | | N.m. | | |
| | | Jours | 28.01.2120 | | |

ANNEXURE-II

| Name | No.: UP-512 of the Power line 220 KV ATOR – MA HAM ON NBMC TOWER AND D/C/M/C MC | Map Scale : 1cm=500mts Total Length : 12Km. S.R. Value : 5,000 Ohms-cm | | | |
|---------|---|--|--------------------------------|---|--------------------|
| S.No. | Telecom. Details | Length of Parallelism in Km. | Mutual Coupling in Ohms. | Effective Fault current in Amps. | I.V in Volts |
| NORTI | H RAILWAY | | | | |
| Affecte | 342-SIG / 1/PTCC /2019 - 20 / 10/5 d Blocks & Telcom Circuits Details | DATED: 18-10-2019 |) | | |
| 1 | Ghaziabad - Naya Ghaziabad | Out S | Out Side IV Consideration Zone | | |
| 2 | Naya Ghaziabad – Guldhar | 0.5 | 0.0002 | 5800 | 1 |
| 3 | Guldhar - Muradnagar | 2.5 | 0.0109 | 6600 | 72 |
| | | 1 - \/\ | m | | 1 2 |
| | | Spendak | , 2020 | | |
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