

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/DL-23 / > 7 - 31

Date: 30.03.2020

Subject:- Induced voltage calculation in respect of 220 kV D/C 1 x 1200 sq.mm U/G XLPE cable from proposed 400/220 kV S/S at Dwarka Sector-5 to proposed 220/66 kV GIS Budella Substation.

Reference:-

- (i) DTL Ref. No. F.DTL/210/DGM(P-II)A/2019-20/Opr.(Proj)/F-26/95 dated 08.11.2019
- (ii) BSNL Ref. No.DET/PTCC/ND/DV-96697/ND-226/2019-20 dated 17.03.2020
- (iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2019-20/11/9 dated 21.11.2019
- (iv) Defence Ref. No. B/46937/Sigs 7(b)/1912 dated 04.02.2020

The PTCC proposal submitted vide ref. (i) has been examined. BSNL vide ref. (ii) intimated that there are no U/G copper cable and no armoured OFC within 8 kms of proposed power line as submitted by MTNL. Hence, NOC is conveyed for this line. The LF induction on the Block and communication circuits of Northern Railway as per details furnished vide ref.(iii) has been examined. The average soil resistivity value has been taken as 2,000 ohms-cm. Voltages likely to be induced on paralleling Block and communication circuits of Northern Railway under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. NOC accorded by the Defence vide ref. (iv) above for this line, is enclosed at Annex-II.

Taking above into consideration, kindly take necessary action regarding issuance of PTCC route approval for this line.

Encl.: As above.

च्याचीन ज्याप मिट

R. P. Singh Director

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

Ple

Copy to:-

- 1. General Manager/S&T, Northern Railway, Office Headquarters, Baroda House, New Delhi-110001.(only Annex-I)
- 2. DGM (T), Proj.-IIA, DTL, Shakti Sadan, Kotla Road, New Delhi-110002.

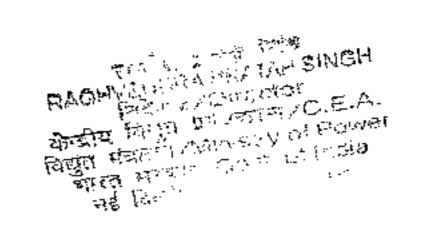
čase No.: DL-23

Name of the Power line:220 kV D/C 1 x 1200 sq.mm U/G XLPE cable from proposed 400/220 kV S/S at Dwarka Sector-5 to proposed 220/66 kV GIS Budella Substation.

Map Scale : 1cm=500mts
Total Length:8.875 km
Soil Resistivity:2,000 ohm-cm

| | NorthernRailway letter no:-342-SIG/1/PTCC/201 | 9-20/11/9 dated 21.11.2019 | |
|---|---|-------------------------------|----|
| | Affected Blocks & Telecom Circuits <u>Details</u> | | |
| | <u>Delhi- Rewari section</u> | | |
| 1 | Patel Nagar R/S to Delhi Cantt. R/S | | 0 |
| 2 | Delhi Cantt. R/S to Palam R/S | Outside IV consideration zone | 0 |
| 3 | Palam R/S to Shahabad Mohammadpur R/S | | 0 |
| | Delhi- Bathinda section | | |
| 4 | DayaBasti R/S to Shakurbasti R/S | | 0 |
| 5 | Shakurbasti R/S to Nangloi R/S | Outside IV consideration zone | 0 |
| 6 | Nangloi R/S to Gheora R/S | | 0. |

याध्येष-इ अताप मिर



Tele: 23019746

DL-23 (Annex-II)

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

B/46937/Sigs 7(b)/1912/

DGM (T) Proj-liA Delhi Transco Limited R-12, A Block, Shakti Deep Building, Jaandewalan Extn., New Delhi-110055 o 4 Feb 2020

PTCC APPROVAL OF DESIGN, ENGINEERING, SUPPLY, LAYING, JOINTING, TESTING AND COMMISSIONING OF 220KV, D/C 1X1200SQ MM U/G XLPE CABLE FROM PROPOSED 400/220KV S/STN AT DWARKA TO PROPOSED 220/66KV GIS BUDELLA SUBSTATION ON TURNKEY BASIS

- 1. Ref your letter No F.DTL/210/DGM(P-II)A/2019-20/Opr (Proj)/F-26/93 dt 08 Nov 2019 (copy ati).
- 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,
Netgi Nagar, New Delhi-/ 10023

for information