

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power विद्युत प्राधिकरण **Central Electricity Authority** विद्युतसंचारविकासप्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/DL-22 / 2-2 8

Date: 23.03.2020

Subject:- Induced voltage calculation in respect of 220 kV DC Overhead transmission line between 220 kV Shalimar Bagh S/S and proposed 220/66 kV GIS sub-station Sanjay Gandhi Transport Nagar, Delhi- regd.

Reference :-

- DTL Ref. No. F.DTL/210/DGM(P-II)A/18-19/Opr.(Proj)/F-32/41 dated 15.06.2018 (i)
- MTNL Ref. No. SDE(C)/BDL/General/2018-19 dated 06.07.2018 (ii)
- Northern Railway Ref. No. 342-SIG/1/PTCC dated 11.06.2018 (iii)
- Defense Ref. No. B/46937/Sigs 7(b)/1116 dated 02.08.2018 (iv)

The PTCC proposal submitted vide ref. (i) has been examined. MTNL vide ref. (ii) intimated that no existing cable (primary) on that route. Hence, it may be treated as NOC by MTNL 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 7,500 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 Defense 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.

Jan Rehab Lys

(Upendra Kumar)

Chief Engineer

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

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.

Tele: 23019746

Annex-II

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

B/48937/Sigs 7(b)/1116/

0 1Aug 2018

DGM (T) Project-IIA Delhi Transco Limited Room No. R-12. Shakti Deep Building Jhandewalani New Delhi - 110055

ERECTION, TESTING & COMMISSIONING OF 220KY DOUBLE CIRCUIT, OVER HEAD TRANSMISSION LINE BETWEEN 220 KY SHALIMAR BAGH SUB-STATION AND PROPOSED 220/66KV GIS SUB-STATION SANJAY GANDHI TRANSPORT

- Ref your letter No F.DTL/210/DGM (P-II)A/18-19/Opr. (Proj.)/ F 32/17 dt 07 May 2018 (copy att).
- No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
- Documents alongwith map sheets (in original) are forwarded herewith for your 3, further action.

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GSO 1 (Comn)

for SO-in-C

Enclosures (As above)

Copy to -

Dy. Director(PTCC)

Central Electricity Authority

Power Communication Development Division

NRPC Complex 18-A, Shaheed Jeel Smigh S Marg

Andrew Serai, New Delhi - 110016

- For information

une of the Power line 220KV Couble circuit. Over Head ansmission Line between 220 kv Shalimar Bagh Sub -Station and opposed 220 / 66 Kv GIS Sub -Station Sanjey Gandhi Transport Nagar			Map Scale : 1cm=500mts Total Length : 3.5 Km. S.R. Value :7,500) Ohms-om		
No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault Current in Amps.	I.V in Volts.
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