



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No.:CEA/PCD/PTCC/UP-478 *923-925*

Date: 28.08.2019

DET (PTCC), Northern Zone,
Bharat Sanchar Nigam Ltd (BSNL),
O/o PGM(N), Inspection Circle,
CTS Compund, Netaji Nagar,
New Delhi – 110023

Subject: Induced Voltage Calculation in respect of PTCC proposal for LILO of 220 kV Muradnagar – Sahibabad line at 220 kV Pratap Vihar S/S

Reference: (i) BSNL letter no. DET/PTCC/ND/DV-9425/UP-686/2019-2020 dated 03.05.2019
(ii) Northern Railway letter no. 342-SIG/1/PTCC dated 03.04.2019
(iii) Defense letter no. B/46937/Sigs 7(b)/1573 dated 03.07.2019

Sir,

The instant PTCC proposal has been examined. Low frequency induction on Block & Telecom circuits of Northern Railway with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 40,000 Ohm-cm. The voltages likely to be induced on paralleling Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. Vide ref. (i) above, BSNL have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – II).

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

Encl.: As above

अध्यक्ष
उत्तम सिंह
(R. P. Singh)
Director, PTCC

Copy to:

1. GM (S&T), Northern Railway, Headquarter Office, Baroda House, New Delhi - 110001
- (Annexure-I only)
2. Executive Engineer, Electricity Trans. Division-II, UP Power Transmission Corporation Limited, 132 kV Sub Station, LalKuan, BSR Road, Ghaziabad, Uttar Pradesh - 201002

MIC

ANNEXURE - I

Case No.: UP-478		Map Scale : 1cm=500mts			
Name of the Power line: LILO of 220 kV Muradnagar – Sahibabad line at 220 kV Pratap Vihar S/S		Total Length : 3.78 km			
		Soil Resistivity : 40,000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Northern Railway letter no. 342-SIG/1/PTCC dated 03.04.2019					
1	Anand Vihar R/S – Sahibabad R/S	1.95	0.0007	9470	7
2	Sahibabad R/S – Ghaziabad R/S	1.5	0.0058	10000	58
3	Ghaziabad R/S – Naya Ghaziabad R/S	1.55	0.0015	8670	13
4	Naya Ghaziabad R/S – Guldhar R/S	0.4	0.0005	10000	5

राघवेंद्र प्रताप सिंह
24.08.19.

राघवेंद्र प्रताप सिंह
RAGHVENDRA PRATAP SINGH
निदेशक / Director
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi-65

UP-478

Tele : 23019746

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


B/46937/Sigs 7(b)/1573/

03 Jul 2019

Office of the Executive Engineer
Electricity Transmission Division-II
U.P. Power Transmission Corporation Limited
132K.V. Sub-Station, Lalkuan
B.S.R. Road Ghaziabad-201002(U.P.)

**PTCC CLEARANCE FOR LILO OF 220KV MURADNAGAR-SAHIBABAD LINE AT 220KV
PRATAP VIHAR S/S**

1. Ref your letter No 434/ETD-II/GZB dt 15 Mar 2019. (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.

for information.