



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-471/202-204

Date: 15.02.2019

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

Subject: Induced Voltage calculation in respect of PTCC proposal of LILO of 400 kV D/C Aligarh – Sikandarabad Line at Harduaganj Thermal Power Station

Ref: (i) BSNL letter no. DET/PTCC/ND/DV-9384/UP-680/2018-19 dated 31.10.2018

(ii) Northern Railway letter no: 342-SIG/1/PTCC dated 20.06.2018

(iii) Defense letter no. B/46937/Sigs 7(b)/1193/ dated 20.11.2018

Sir,

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The Average Soil Resistivity value has been taken as 25000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(iii) for the above line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above

Yours faithfully,

M/F

(Naresh Bhandari)
Chief Engineer

Copy to:

- 1) GM(S&T), Northern Railway, Headquarter Office, Baroda House, New Delhi (Annex – II only)
- 2) Executive Engineer, UPPTCL, Electricity 400 kV Substation Division, LalDigg, Aligarh - 202001

Case No. : UP-471

Annexure I


Name of the Power Line: 400 KV D/C Aligarh-Sikandrabad Line at
Harduaganj Thermal Power Station

Toposheet Scale : 1cm=500mts
Total Length : 30.101 Kms
S.R Value : 25,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
---------	----------------------	------------	------------	----------------------	-------------

BSNL					
Reference No. DET/PTCL/ND/DV-9235/UP-680/2018-19		Date : 31/10/18			
BSNL Details					
1	Jalali TE to Akansha School	}			
2	Jalali TE to Shekha Gas Godaam				
3	Jalali TE to Shekha Village				
4	Jalali TE to Nangla Ausafali				
5	Jalali TE to Pilkhama Village				
6	Jalali TE to Sikandarpur				
7	Jalali TE to Ukavil				
8	Tala Nagri TE to Harduaganj				

IV less than 430V →


नरेश भंडारी/NARESH BHANDARI
मुख्य अभियन्ता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

Tele : 23019746

UP-471

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

B/46937/Sigs 7(b)/1193

00 Nov 2018

O/o the Executive Engineer
Uttar Pradesh Power Transmission Corporation Limited
Electricity 400kV Substation Division, LalDiggi,
Aligarh-202001

**PTCC CLEARANCE FOR 400 KV DC ALIGARH-SIKANDRABAD LINE LILO AT
HARDUAGANJ THERMAL POWER STATION**

1. Ref your letter No Lt. No. 934/E400KVD(A)/PTCC LILO dt 25 May 2018 (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

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.