



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No.: UP-572
PTCC proposal of 400 kV D/C Khurja STPP – Aligarh (PG) transmission line (35.136 km)

Reference:		
S. No.	Reference No.	Dated
(i)	PGCIL: NR-3/ALJN/400kV DC KHURJA-ALIGARH/PTCC/79	23.08.2021
(ii)	BSNL: DET/PTCC/ND/DV-9945/UP-988/2021-2022	06.09.2021
(iii)	North Central Railway: एन.सी.आर./एस एण्ड टी/2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1)	08.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2542	30.09.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on telecom cables of BSNL and block & telecom circuits of North Central Railway as per details furnished vide references (ii) and (iii) respectively has been examined. Voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of North Central Railway under single line to ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered. Vide ref. (iv) above, Defense have conveyed No Objection Certificate (a copy enclosed as Annexure-III).

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

Encl.: As above.

Signature Not Verified
Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.11.02 10:47:54 IST

Director

m/c

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001.	
2.	ASTE/ Tele	North Central Railway, HQ's Office (S&T Branch), Ganga Parisar, Subedarganj, Allahabad-211015	Only Annexure -II
3.	General Manager	PGCIL, 756/400 kV GIS Substation, Village – Keelpur, Tehsil – Khair, Dist. – Aligarh - 202141.	Copy for information

No.: UP-572

Name of the Power Line: 400 KV DC Khurja STPP-Aligarh (PG)
Transmission Line

Annexure I

Toposheet Scale : 1cm=500mts
Total Length : 35.136 Kms
S.R Value : 15,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL					
Reference No. DET/PTCC/ND/DV-9945/UP-988/2021-22 Dated:- 06.09.2021					
1	BSNL Details Chandauss to Rampur underground copper cable 200 pair (03 KM)				IV less than 430 V

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

ANNEXURE - II

CEA Case No.: UP-572		Map Scale : 1 cm = 500 m.			
Name of the Power Line: 400 kV D/C Khurja STPP – Aligarh (PG) transmission line		Route Length : 35.136 km			
		Soil Resistivity : 15,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

NORTH CENTRAL RAILWAY					
Ref. No: एन.सी.आर./एस एण्ड टी/2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1) dated 08.10.2021					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Somna – Danwar	1.9	0.0041	10800	44
2	Danwar – Khurja Jn.	2.2	0.0010	10800	11

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRINASTAVA
सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Tele : 23019746

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

B/46937/Sigs 7(b)/2542/

30 Sep 2021

General Manager
Powergrid Corporation of India Limited
765/400 GIS Substation, Village-Keelpur
Tehsil-Khair, Dist: Aligarh-202141 (U.P.)

**PTCC CLEARANCE FOR 400KV D/C KHURJA STPP-ALIGARH (PG)
TRANSMISSION LINE**

1. Refer your letter No NR-3/ALIN/400KV DC KHURJA-ALIGARH/PTCC/73 dt 23 Aug 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per 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)
Lt Col
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

The DET(PTCC), Northern Zone
O/d PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

for information

930

26/10/21