



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

Case No. : RAJ-662:

PTCC proposal of 400 kV D/C Bhadla-II to Bhadla (PG) line (Twin HTLS) associated with transmission scheme for Solar Energy Zones in Rajasthan : 48.7 km

Reference:

| S. No. | Reference No. | Dated |
|--------|---|------------|
| (i) | PGCIL : NR-1/BDL-2/TL/802 | 08.09.2020 |
| (ii) | BSNL : DET/PTCC/ND/DV-9795/Raj-1284/2020-21 | 18.12.2020 |
| (iii) | North Western Railway : SG/158/NWR/PTCC/797 | 23.11.2020 |
| (iv) | Defense : B/46937/Sigs 7(b)/2377 | 20.05.2021 |

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Western Railway with respect to details furnished vide above references (ii) & (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of North Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I & Annexure-II respectively. The screening factors, as applicable, have been considered. Vide reference (iv) above, The Defence Authority have issued No Objection Certificate (NOC) for the proposed power line.

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
Digitally signed by: P. GHVENDRA
PRATAP SINGH
Date: 2021.07.05 13:56:57 IST

Director

To,

| | | | |
|----|---|--|----------------------|
| 1. | Divisional Engineer (PTCC), Northern Zone | BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi- 110001. | Annexure-I only |
| 2. | Dy. CSTE/Tele | NWR/Jaipur, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017. | Annexure-II only |
| 3. | DGM (T/L Const.) | PGCIL; 765/400 kV Sub-station (Const.) Bhadla-II, 115 Nandpuri Colony, Nagour Road, Phalodi-342301, district-Jodhpur | Copy for information |

M/C

(Annexure - I)

S.R. = 25,000 sqm

CEA: RAJ-662
 Case no.

NAME OF THE POWER LINE - 400 KV D/C BHADLA II - BHADLA PG TL

| SL. NO | TYPE OF CABLE | NAME OF PLACE | | ALONG RAIL/ROAD | UNDER GROUND PRIMARY COPPER CABLES (U.G) | | ARMoured OPTICAL FIBRE CABLE | | ANY INTERMEDIATE TAPPING |
|--------|---------------|--------------------------------|----|-----------------|--|--------------|------------------------------|-----------------|--------------------------|
| | | FROM | TO | | SIZE & LENGTH OF CABLE | NO. OF PAIRS | SIZE | LENGTH OF CABLE | |
| | OPC | 5 km from Kangars Fardarda BHP | | Road | | | 6F | 46 mtr | IV less than 430V |

श्रीमान् / MANUJ
 Asstt. Director-II
 P. 21/20-11
 Ministry of Power
 Govt. of India
 New Delhi-65



ANNEXURE-II**Case No.:** RAJ-662**Name of the Power line:** 400 kV D/C Bhadla-II to Bhadla (PG) line (Twin HTLS) associated with transmission scheme for Solar Energy Zones in Rajasthan.**Map Scale** : 1 cm=500 m**Total Length** : 48.7 km**S.R. Value** : 25,000 ohm-cm

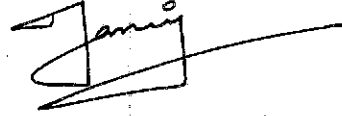
| S.No. | Telecom. Details | Length of Parallelism in Km. | Mutual Coupling in Ohms. | Effective Fault current in Amps. | I.V in Volts. |
|-------|------------------|------------------------------|--------------------------|----------------------------------|---------------|
|-------|------------------|------------------------------|--------------------------|----------------------------------|---------------|

North Western Railway Ref. No. : SG/158/NWR/PTCC/797

Dated:23.11.2020

Affected Blocks & Telecom Circuits Details

| 1 | Bap to Sird | Out of Parallelism | | | 00 |
|---|----------------|--------------------|--------|-------|----|
| 2 | Sird to Nokhra | 0.3 | 0.0001 | 14988 | 02 |



तनुज/TANUJ
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-66