

#### भारत सरकार

#### Government of India विद्युत मंत्रालय

### Ministry of Power केन्द्रीय विद्युत प्राधिकरण

## Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

## **Power Communication Development Division**

No.:CEA/PCD/PTCC/RAJ-620 /556-58

Date: 09.05.2019

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 220 kV D/C Transmission

Line from 220 kV GSS Basni to 220 kV GSS NPH Jodhpur

Reference:

(i) BSNL letter no. DET/PTCC/ND/DV-9431/Raj-1213/2019-2020 dated 08.05.2019

(ii) North Western Railway letter no. SG/158/NWR/PTCC/723 dated 14.11.2018

(iii) Defense letter no. B/46937/Sigs 7(b)/1347 dated 01.01.2019

Sir.

The instant PTCC proposal has been examined. Low frequency induction on Block & Telecom circuits of North Western Railway with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 50,000 Ohm-cm. The voltages likely to be induced on paralleling Block & Telecom circuits of North Western 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

m/c

(Naresh Bhandarí) Chief Engineer

## Copy to:

 Dy. CSTE (Tele), North Western Railway, Head Quarter Office, Room no. 136, First Floor, Near Jawahar Circle, Jaipur – 302017 (Annexure-I only)

2. Executive Engineer (PTCC), RVPNL, Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur - 302005

ANNEXURE - I

Case I	No.: RAJ-620	T	ANNEZ	UKE – I	
Name 220 kV	of the Power line: 220 kV D/C Transmission Line from / GSS Basni to 220 kV GSS NPH Jodhpur		<b>ength:</b> 6.0	m=500mts ) km 50,000 Ohm-	cm
S.No.	Telecom. Details	ength of rallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

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नरेश भंडारी/HARESH BHANDART
मुख्य अभियन्ता/Chief Engineer
कर्न्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India

Tele: 23019746

RAJ-620

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

B/46937/Sigs 7(b)/1347 /

DI Jan 2019

O/o Executive Engineer (PTCC)
Rajasthan Rajya Vidyut Prasaran Nigam Limited
Room No. 129, First Floor
Vidyut Bhawan, Janpath, Jyoti Nagar
Jaipur-302005

# PTCC CASE OF 220 KV D/C BASNI-NPH, JODHPUR(220KV GSS) LINE

- Ref your letter No RVPN/XEN (PTCC)/JPR/F.1840-A/D.271 dt 31 Oct 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

Enclosures: As above

## Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Kawaria Sarai, New Delhi - 110016

for information.