



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-631:	dt. 25.03.2021
PTCC proposal of 220 KV S/C, 2 phase transmission line on D/C towers from 400 kV GSS RVPN, Ajmer to Railway TSS Kishangarh.	

Reference:		
S. No.	Reference No.	Dated
(i)	RVPNL : RVPN/XEN(PTCC)/JPR/F.1860-A/D.166	15.01.2021
(ii)	BSNL: DET/PTCC/ND/DV-9607/Raj-1244/2020-2021	01.02.2021
(iii)	North Western Railway: SG/158/NWR/PTCC/752	24.09.2019
(iv)	Defense: B/46937/ Sigs 7(b)/1833	19.12.2019

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) and (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 and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line.

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

Encl.: As above.

Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.03.25 12:04:03 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	North Western Railway, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017	Annexure-II only
3.	Executive Engineer (PTCC), Jaipur	RVPNL, Vidyut Bhawan, Janpath, Nagar, Jaipur-302005	Jyoti Copy for information

MIC

Case No. : RAJ-631

Annexure 1

Name of the Power Line: 220 KV S/C, 2-Phase line from 400 KV GSS,
RVPN, Ajmer to Railway TSS Kishangarh
Line

Toposheet Scale : 1cm=500mts
Total Length : 4 Kms
S.R Value : 30,000 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-9607/Raj-1244/2020-21 Date : 01.02.2021					
BSNL Details					
1	Tiloniya Tele Exch to Harmade village 100 pair (6 KM)				
2	Tiloniya Tele Exch to Tiloniya village 50 pair (2 KM)				
3	Gegal Tele Exchange to Gegal Industrial Area 100 Pairs (0.6 KM)				
4	Gegal Tele Exchange to Gegal Industrial Area 100 Pairs (0.4 KM)				
5	Gegal Tele Exchange to Gegal Village 50 Pairs (1.6 KM)				
6	Gegal Tele Exchange to Untro Village 50 Pairs (6.7 KM)				

IV less than 430V

(TANUJ / TANUJ)
सहायक निदेशक-II / Asst. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi-66

ANNEXURE-II

Case No.: RAJ-631

Name of the Power line: 220 KV S/C, 2 phase transmission line on D/C towers from 400 kV GSS RVPN, Ajmer to Railway TSS Kishangarh.

Map Scale : 1 cm=500 m

Total Length : 4 km

S.R. Value : 30,000 ohms-cm

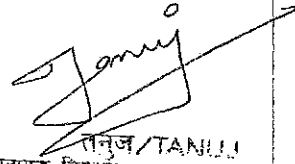
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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North Western Railway Ref. No. : SG/158/NWR/PTCC/752

Dated:24.09.2019

Affected Blocks & Telecom Circuits Details

1	Mandavariya to Kishangarh	Out of Parallelism			00
2	Kishangarh to Gegal Akhri	2.9	0.0381	7652	292
3	Gegal Akhri to Ladpura	Out of Parallelism			00
4	Ladpura to Madar Jn	Out of Parallelism			00



तनुज/TANUJ
 सहायक निदेशक-II/Asstt. Director-II
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय, Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66