



**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-645:	५७.१८.०३.२१
PTCC proposal of 765 kV D/C Ajmer to Phagi Transmission line.	

Reference:		
S. No.	Reference No.	Dated
(i)	PGCIL : N1/AJMER-PHAGI/TL-Const./01	18.07.2020
(ii)	BSNL : DET/PTCC/ND/DV-9720/Raj-1266/2020-21	24.07.2020
(iii)	North Western Railway : SG/158/NWR/PTCC/778	26.06.2020
(iv)	Defense : B/46937/Sigs 7(b)/2110	01.01.2021

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.

Digitally signed by RAJESH K. PRATAP SINGH  
Date: 2021.01.18 18:03:57

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.	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.	Power Grid Corporation of India Ltd.	765/400 kV Substation Construction Office, House No. 451, Achalvanshi Colony, Jaisalmer-345001.	Copy for information

Case No. :

RAJ-645

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 134.209 Kms

S.R Value : 25,000 Ohm-cm

Name of the Power Line: 765 KV D/C Ajmer- Phagi Transmission line

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-9720/Raj-1266/20201-21 Dated:- 24.07.2020					
Date :					
BSNL Details					
1	Mangliyawas to jethana 200 Pr ( 4.7 KM)				
2	Mangliyawas to Brickchyawas 200 Pr ( 4.9 KM)				
3	Mangliyawas to Brickchyawas Chauraha 50 Pr ( 3 KM)				
4	Mangliyawas to Lamana 100 Pr (5.4 KM)				
5	Sardhana to Kesarpura 100 Pr ( 5.8 KM)				
6	Sardhana to Makreda rail 100 Pr ( 6 KM)				
7	Sardhana to Doomara 100 Pr ( 6 KM)				
8	Hatundi to Khajpura 50 Pr ( 2.1 KM)				
9	Hatundi to Tabiji 100 Pr ( 5.1 KM)				
10	Hatundi to Kaklana 50 pr ( 4.4 KM)				
11	Sardhana to Miyapur 50 Pr (4.1 KM)				
12	Phagi TE to Phagi Village 200 Pr ( 300 Mtr)				
13	Phagi TE to Phagi Village 100 Pr ( 500 Mtr)				
14	Phagi TE to Phagi Village 50 Pr ( 2.5 KM)				
15	Choru TE to Choru Village 50 Pr ( 500 Mtr)				

IV less than 430V

Tanuj

तनुज/TANUJ

सहायक निदेशक (T/Asstt. Line work)

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-645

Name of the Power line: 765 kV D/C Ajmer to Phagi Transmission line.

Map Scale : 1 cm=500 m  
Total Length : 134.209 km  
S.R. Value : 25,000 ohms-cm

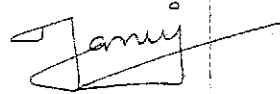
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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North Western Railway : SG/158/NWR/PTCC/778

Dated: 26.06.2020

Affected Blocks & Telecom Circuits Details

1	Ajmer to Daurai	Out of Parallelism			00
2	Daurai to Saradhana	2.9	0.0009	17637	16
3	Saradhana to Makrera	4.6	0.0037	17761	66
4	Makrera to Mangaliyawas	6.3	0.0103	18913	195
5	Mangaliyawas to Kharwa	2.4	0.0056	19404	109
6	Adarsh Nagar to Hatundi	0.9	0.0001	17004	02
7	Hatundi to Rajosi	2.9	0.0076	16119	123
8	Rajosi to Nasirabad	5.2	0.0042	16069	68
9	Nasirabad to Jharwasa	Out of Parallelism			00



रजनीश, TANKU  
 जयपुर विद्युत निगम, Jodhpur, R. O. II  
 केंद्रीय विद्युत प्राधिकरण, C.E.A.  
 विद्युत विभाग, Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली / New Delhi-66