



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-646:

PTCC proposal of LILO of Loop in portion of 765 kV Ajmer to Bikaner transmission line at Bhadla-II PS (131.411 km)

## Reference:

S. No.	Reference No.	Dated
(i)	PGCIL : NR-1/BKN/TL/LOOP IN/PTCC/102A	31.07.2020
(ii)	BSNL : DET/PTCC/ND/DV-9745/Raj-1271/2020-21	07.09.2020
(iii)	North Western Railway : SG/158/NWR/PTCC/777	30.07.2020
(iv)	Defense : B/46937/Sigs 7(b)/2098	07.10.2020

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

RAGHUVENDRA PRATAP SINGH  
Date: 2021.08.04 16:50:53 IST

Director

m/e

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.	765/400/220 kV Substation (Construction), 6B-41, Jai Narayan Vyas Colony, Bikaner-334001.	Copy for information

Case No. : RAJ-646

Name of the Power Line: LILO of Loop in portion of 765 KV D/C  
Ajmer-Bikaner Transmission Line (131.411  
KM) at Bhadla-II SS (Powergrid)

Annexure I

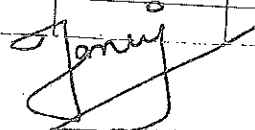
Toposheet Scale : 1cm=500mts  
Total Length : 131.411 Kms  
S.R Value : 15,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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**BSNL**

Reference No. DET/PTCC/ND/DV-9745/Raj-1271/20201-21 Dated:- 07.09.2020  
Date :

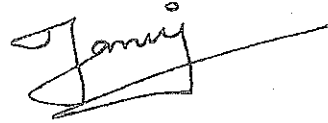
BSNL Details					
1	Kuchor ATH to Kuchor AG (Armoured OFC) 10 KM	}	IV	less	than 430 V
2	Bhanatsar to Pithrasar (armoured OFC) 6 KMs				
3	Jhujhnu Village Local internal 10 Pair 1.5 KMs, 20 pair 0.8 Kms				
4	Jhujhnu Village Local internal 20 pair 0.8 Kms				

  
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-68

**ANNEXURE-II**

<b>Case No.: RAJ-646</b> <b>Name of the Power line: LILO of Loop in portion of 765 kV</b> <b>Ajmer to Bikaner transmission line at Bhadla-II PS.</b>			<b>Map Scale : 1 cm=500 m</b> <b>Total Length : 131.411 km</b> <b>S.R. Value : 15,000 ohms-cm</b>		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>

<b>North Western Railway : SG/158/NWR/PTCC/777</b>			<b>Dated: 23.07.2020</b>		
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Palana to Deshnoke	1.1	0.0001	14913	02
2	Deshnoke to Surapura	10.6	0.0023	15482	36
3	Surapura to Nokha	0.4	0.0001	15511	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