



सत्यमेव जयते

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

No.: CEA/PCD/ PTCC/RAJ-636/489-491

Date: 31.08.2020

Subject: PTCC proposal of LILO of 220 kV S/C Sikar-Dahod line at 400 kV PGCIL GSS Bhadhadar, Dist. Sikar -regd.

Ref.:	(i) RVPNL Ref. No. RVPN/XEN(PTCC)/JPR/F.1861-A/D.10	Dated: 21.05.2020
	(ii) BSNL Ref. No. DET/PTCC/ND/DV-9608/Raj-1245/2019-2020	Dated: 08.06.2020
	(iii) North Western Railway Ref. No. SG/158/NWR/PTCC/754	Dated: 04.10.2019
	(iv) Defense Ref. No. B/46937/Sigs 7(b)/1846	Dated: 16.10.2019

The PTCC proposal submitted vide ref. (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 Soil Resistivity (SR) value has been taken as 2,000 Ohm-cm. 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 Annex-I and Annex-II respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above.

Upendra Kumar
31.08.2020
(Upendra Kumar)
Chief Engineer

To,
The Divisional Engineer (Telecom), BSNL
PTCC O/o GM (North), Inspection Circle (T & D),
CTS Compound, Netaji Nagar,
Africa Avenue, New Delhi - 110023

M/C

Copy to:-

1. The Executive Engineer (PTCC), RVPNL, Room No. 129, First Floor, Vidyut Bhawan, Jyoti Nagar, Jaipur-302005.
2. SSTE, HQ, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017. (Annex-II)

RAJ-636

Annexure I

Toposheet Scale : 1cm=500mts
Total Length : 8.5 Kms
S.R Value : 2,000 Ohm-cm

Name of the Power Line: LILO of 220 KV S/C Sikar-Dhod Line at 400 KV PGCIL GSS Bhadhar, Distt. Sikar

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-9608/Raj-1245/2019-2020
Date : 08.06.2020

BSNL Details					
1	Rasidpura to Bhadhar (50 Pair , 3 KM)				
2	Sihot Choti to Chelori (50 Pair , 3 KM))				
3	Sihot Choti to Kindoli (100 Pair , 3 KM))	} I-V less than 430V			
4	Jhghan Choti to Jhghan Badi (50 Pair , 3 KM))				
5	Rasidpura to Maulasi (20 Pair , 4 KM)				
6	Jhghan Choti to Bherampure (50 Pair , 3 KM))				
7	Jhghan Choti to Akanra (50 Pair , 3 KM))				

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

ANNEXURE - II

Case No.: RAJ-636 Name of the Power Line: LILO of 220 kV S/C Sikar-Dahod line at 400 kV PGCIL GSS Bhadhadar, Dist. Sikar		Map Scale : 1 cm = 500 m. Route Length : 8.5 km Soil Resistivity : 2,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

NORTH WESTERN RAILWAY Ref. No: SG/158/NWR/PTCC/754		DATED: 04.10.2019			
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Sikar to Nawalgarh	Outside IV consideration zone			00
2	Sikar to Lachhmangarh Sikar	3.5	0.0014	8826	13
3	Sikar to Palsana	Outside IV consideration zone			00

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत विभाग/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Tele : 23019746

RAJ-636

(Annex - III)

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

B/46937/Sigs 7(b)/1846/

16 Oct 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 LILO OF 220KV S/C SIKAR-DHOD LINE AT 400KV PGCIL GSS BHADHADAR,
DISTT. SIKAR**

1. Ref: your letter No RVPN/XEN (PTCC)/JPR/F.1861-A/D.145 dt 20 Sep 2019 (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
Katwaria Sarai, New Delhi - 110016

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS/Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information