



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-641/648-50

Date: 27.10.2020

Subject: PTCC proposal for LILO (Loop Out portion) of 765 kV D/C Ajmer – Bikaner transmission line at Bhadla – II S/S - regd

Ref: (i) PGCIL Ref. No. NR-1/BKN/TL Dated: 26.05.2020
(ii) BSNL Ref No DET/PTCC/ND/DV-9746/RAJ-1272/20-21 Dated: 22.09.2020
(iii) North Western Railway Ref. No. SG/158/NWR/PTCC/777 Dated: 30.07.2020
(iv) Defense Ref. No. B/46937/Sigs 7(b)/2075 Dated 18.09.2020

The PTCC proposal submitted vide above ref. (i) has been examined. The low frequency induction on telecom cables of BSNL and block & telecom circuits of North Western Railway as per details furnished vide ref. (ii) and (iii) respectively has been examined. The Soil Resistivity value has been taken as 15,000 Ohms-cm and 40,000 Ohms-cm. 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. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

उपेन्द्र कुमार

27.10.2020

(Upendra Kumar)
Chief Engineer

To,
The DET (PTCC), BSNL, Northern Zone,
O/o PGM (N), QA & Inspection Circle,
D-Tax Building, Eastern Court
Janpath, New Delhi 110001

M/K

Copy to:

Dr. Ramesh
RPS/2

1. Dy. CSTE/Telecom, North Western Railway, Head Quarter Office, Room no. 136, First Floor, Near Jawahar Circle, Jaipur - 302017 (with Annex-II)
2. General Manager Bhadla – II, PGCIL, H. No. 6B-41 Jai Narayan Vyas Colony, Bikaner, Rajasthan - 334003

Case No. : RAJ-64)

Annexure I

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

Toposheet Scale : 1cm=500mts
Total Length : 131.411 Kms
S.R Value : 15000 Ohm-cm and
40,000 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-9746/Raj-1272/20201-21 Dated:- 22.09.2020					
BSNL Details					
1	Kuchor ATH to Kuchor AG (Armoured OFC) 10 KM	}	IV less than	430 V	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				

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
सहायक निदेशक-II / Asst. Director-II
केंद्रीय विद्युत आयोग / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

ANNEXURE – II

Case No.: RAJ-641 Name of the Power line: LILO (Loop Out portion) of 765 kV D/C Ajmer – Bikaner transmission line at Bhadla – II S/S			Map Scale : 1cm= 500 mts Total Length : 131 Km. S.R. Value : 15,000 Ohms-cm and 40,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

NORTH WESTERN RAILWAY Ref. No. SG/158/NWR/PTCC/777 Dated: 30.07.2020					
Affected Blocks & Telcom Circuits Details					
1	Diyatra Road to Nokhra	4.5	0.0009	15800	14
2	Nokhra to Sird	17.2	0.0139	16900	235
3	Sird to Bap	4.7	0.0048	18300	88
4	Palana to Deshnoke	1.6	0.0001	13100	1
5	Deshnoke to Surpura	8.8	0.0013	14600	19
6	Surpura to Nokha	1.1	0.0001	14600	1

Prateek

प्रतीक श्रीवास्तव / PRATEEK SHRIWASTAVA
 सहायक निदेशक-II / Asst. 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-641

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

Annex III


B/46937/Sigs 7(b)/2075/

18 Sep 2020

DEVI
Power Grid Corporation of India Limited
H.No. 6B-41, Jai Narayan Vyas Colony,
Bikaner (Rajasthan)-334003

**PTCC CLEARANCE FOR LOOP OUT OF LILO OF 765KV D/C AJMER-BIKANER
TRANSMISSION LINE AT BHADLA-II PS**

1. Ref your letter No N1/BKN/PTCC/92 dt 20 Jun 2020 (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

for information

✓ The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Janpath
New Delhi-110001