



सत्यमेव जयते



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

CEA Case No. : RAJ-834		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 220kV S/C Akal-Barmer line at 220kV GSS Sheo (7.81 km)- regd.		
S. No	Reference No.	Dated
(i)	RRVPNL: RVPN/SE (QC, Insp. & Montg.)/XEN (PTCC)/F.2078-A-00349-Rajkaj No.13895598	28.02.2025
(ii)	RRVPNL: RVPN/SE (QC, Insp. & Montg.)/XEN (PTCC)/F.2078-A-00350-Rajkaj No.16270609	01.07.2025
(iii)	Email	22.07.2025
(iv)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10568/RAJ-1613/2025-26	17.07.2025
(v)	North Western Railway: SG/158/NWR/PTCC/1078	26.03.2025
(vi)	Defense: B/46937/Sigs 7(b)/4630	19.06.2025

The PTCC proposal submitted vide above references (i), (ii) and (iii) has been examined. The LF induction on Block and Telecom circuits of BSNL with respect to details furnished vide above reference (iv) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. North Western Railway has issued NOC vide reference (v) above.

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (vi) above (attached as Annexure –II).

All substations are existing therefore EPR calculations are not warranted. Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “*Deemed Energization approval*” shall be specified while issuing RAC.

Encl.: As above

Chief Engineer,

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o GM (North), QA & Inspection Circle ,D-Tax Building, Eastern Court, Janpath New Delhi-110001	
2.	Superintending Engineer (QC, Insp. & Montg.)	Vidyut Bhawan , Janpath, Jyoti Nagar, Jaipur- 302205	Copy for information

ANNEXURE-I

CEA Case No.: RAJ-834 Name of the Power line: LILO of 220kV S/C Akal – Barmer line at 220kV GSS Sheo			Map Scale : 1 cm= 500 m Total Length : 7.81 km S.R. Value : 20000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelis m in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL Letter No:DE/PTCC/NZ/ BSNL-TD/DV-10568/RAJ-1613/2025-26 Dated 17.07.2025

1.	Sheo - Bhiyad	5.2	0.0074	22946	170
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Directorate General of Signals (Signals-7)
General Staff Branch
Integrated HQ of MoD (Army)
DHQ PO, New Delhi -11

RAJ-834

B/46937/Sigs-7(b)/4630 dt 19 Jun 2025

The Superintending Engineer(QC, Insp. & Montg.),
M/s Rajasthan Rajya Vidyut Prasaran Nigam Limited
Vidyut Bhawan, Jyoti Nagar, Jaipur – 302 005
Rajasthan

**PTCC CASE FOR LILO OF 220 KV SIC BARMER- AKAL LINE AT 220KV
GSS SHEO (DISTRICT-BARMER)**

1. Ref your letter No RVPN/ SE (QC. Insp. & Montg.)/XEN (PTCC) /F.2078-A-00349-Rajkaj No 13895598 dt 23 Feb 25
2. No Objection Certificate (NOC) is **accorded** based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

Karan Dhawan

(Karan Dhawan)
Colonel
Colonel Signals-7
for Additional Director General
(Telecommunication)



Encls: As above

Copy to:-

HQ Southern Comd (Sigs)

Chief Engineer, PSCD Division
Central Electricity Authority
Room No 702 (North Wing)
Sewa Bhawan, RK Puram, Sector-1
New Delhi-110 066

for info pl.

Sh. Anshu (DD)
30/06

Diary No. *102/2025-PCD*
Date *30/06/25*