



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
Division

CEA Case No. : RAJ-754		
Induced Voltage (IV) calculation for PTCC proposal of LILO of one circuit of 400 kV Kota - Merta Transmission Line at 765 kV Beawar S/s [Length- 32.62 km]– Regd.		
S. No	Reference No.	Dated
(i)	Ref: SPTL/PKG-F/2024/122	22.07.2024
(ii)	Sterlite Power: e-Mail	08.01.2026
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10625/RAJ-1653/2025-26	26.11.2025
(iv)	North Western Railway: SG/158/NWR/PTCC/988	28.08.2024
(v)	Defense: B/46937/Sigs7(b)/4080	15.01.2025

The PTCC proposal submitted vide reference (i) and (ii) has been examined. Dy.CSTE/Tele North Western Railway vide reference (iv) and DG Signals, MoD vide reference (v) has issued No Objection Certificate (NOC).

EPR zone for proposed S/S is mentioned below:

Name of the proposed Substation	Half diagonal distance , D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
765 kV Beawar S/s	332	44.1	0.0664	1929	1164	N.A	N.A

DET-PTCC, NZ BSNL vide reference (iii) has mentioned that only Un-Armored OFC and BTS are present within 8 km boundary and hence, IV computation is not done and no telephone exchange of BSNL is falling within the EPR zone of proposed Substation.

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.

Digitally signed by
 Suman Kumar Maharana
 Date: 09-01-2026
 16:10:56
 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.	Chief Manager Beawar transmission Limited	Beawar transmission Limited House No: 112/1, Roop Nagar Jodhpur	Copy for information.