



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**

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<b>CEA Case No.: GUJ-1084</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 KV S/C line on DC amd MC tower from 220 kV SEPL (Generation switchyard located in village Bharadava, taluka Suigam, Dist. Banaskantha) to 220 kV Radhanesda PS (28.3 km)- regd.</b>		
<b>S.No.</b>	<b>Reference</b>	<b>Dated</b>
(i)	SEPL: SEPL/PTCC 220kV/001	03.12.2025
(ii)	BSNL: IC/MBI/PTCC/Offline/GUJ-3188	09.01.2026
(iii)	Western Railway: SG.158/28/12/1743	27.01.2026
(iv)	Defense: B/46937/Sigs 7(b)/5493	09.02.2026

The PTCC proposal submitted vide above reference(s) (i) has been examined. The LF induction on Block and Telecom circuits of BSNL with respect to details furnished vide above reference (ii) 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. GM (S&T), Western Railways has issued NOC vide reference (iii) above. The screening factors as applicable have been considered.

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

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220 kV SEPL Switching Yard	76	50	0.03	189	99	NA	NA

As per the details submitted by BSNL vide reference (ii) above, no telephone exchanges are falling in the EPR zone of the 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

Encl.: As above

**Chief Engineer**

**To,**

1.	DET (PTCC), Western Zone	QA & Inspection circle, 1st floor, D- wing, BSNL Admin Bldg., Juhu Tara Road, Santacruz (West), Mumbai- 400057	
2.	M/s Sprng Energy Pvt Ltd	Shell Centre, Commerzone, Block II, No. 2,200 Feet Radial Road, Pallikaranal, Chennai - 600100	Copy for information

**ANNEXURE-I**

<b>CEA Case No.:</b> GUJ-1084 Name of the Power line: 220 KV S/C line on DC and MC tower from 220 kV SEPL (Generation switchyard located in village Bharadava, taluka Suigam, Dist. Banaskantha) to 220 kV Radhanesda PS			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length:</b> 28.3 km <b>S.R. Value :</b> 10000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>BSNL Letter No:</b> IC/MBI/PTCC/Offline/GUJ-3188 Dated 09.01.2026					
<b>Suigam Exchange</b>					
1	Suigam – Local 100+5	Out of Parallelism			

Directorate General of Signals (Signals-7)  
General Staff Branch  
Integrated HQ of MoD (Army)  
DHQ PO, New Delhi -11

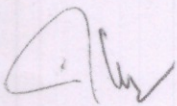
GUS-1084

B/46937/Sigs-7(b)/5493 dt 09 Feb 2026

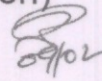
M/S SPRNG POWER EARTH PRIVATE LIMITED  
A-001, Upper Ground, P-5 Pentagon Tower  
Magarpatta City, Hadapsar, Pune-411013

**SUBMISSION OF PROPOSAL FOR PTCC ROUTE APPROVAL OF PROPOSED SPEP (GENERATION SWITCH YARD AT LOCATED IN VILLAGE-BHARADAVA, TALUKA-SUIGAM, DIST-BANASKANTHA, GUJARAT) - RADHANESDA PS 220KV S/C LINE ON D/C TOWERS, HAVING ROUTE LENGTH OF 28.3 KMS. [THE TOTAL LINE LENGTH IS 27.3 KM OUT OF WHICH ABOUT 2.3 KM FROM RADHANESDA PS END WOULD BE IMPLEMENTED AS S/C LINE ON M/C TOWER]**

1. Ref your letter No SPEPL/PTCC 220KV/001 dt 03 Dec 2025.
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.



(Puneet Lakhanpal)  
Lieutenant Colonel  
General Staff Officer Grade-1 (Communication)  
for Additional Director General (Telecommunication)

Copy to:-

HQ Southern Comd (Sigs)  
PIN -908541  
C/o 56 APO

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

For info pl.

an Anurag (DD)  
27/02

Central Electricity Authority

PSCD Division

Diary No.

Date