



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-944</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C line from 220/33 kV AEPL PSS in Khambaliya Taluk, Devbhumi Dwarka to 400/220 kV Jam Khambhaliya SS(15.672 km)- regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	Avaada: Avaada/Jam-Khambaliya/PTCC/1	04.03.2025
(ii)	BSNL: IC/MBI/PTCC/GUJ-3068	21.06.2025
(iii)	Western Railway: SG.158/28/12/1533	30.06.2025
(iv)	Defense: B/46937/Sigs 7(b)/4594	23.04.2025

The PTCC proposal submitted vide reference (i) above has been examined.

DET (PTCC), WZ, Mumbai has issued NOC vide reference (ii) above. The LF induction on communication circuits of Western Railway with respect to details furnished vide above reference (iii) have been computed. The voltage likely to be induced on paralleling communication cables of Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I. 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 substation 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
220/33 kV AEPL PSS	105.9	31.5	0.5	3773	2460	132	61

As per the details submitted by BSNL vide reference (ii) above, no telephone exchange is 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.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 <sup>st</sup> floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
2.	GM (S&T)	Western Railway, O/o PCSTE, S&T Dept., 5 <sup>th</sup> Floor, Station Building, Churchgate, Mumbai - 400020	
3.	General Manager (Avaada Energy Pvt. Ltd.)	406, 4 <sup>th</sup> Floor , Hubtown Solaris, N.S. Phadke Marg, Andheri(E), Mumbai - 400069	Copy for information

**ANNEXURE-I**

<b>CEA Case No.:</b> GUJ-944 <b>Name of the Power line:</b> 220 kV S/C line from 220/33 kV AEPL PSS in Khambaliya Taluk, Devbhumi Dwarka to 400/220 kV Jam Khambhaliya SS			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 15.672 km <b>S.R. Value</b> : 50000 Ohm-cm		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
<b>WESTERN RAILWAY Letter No. SG.158/28/12/1533 Date: 30.06.2025</b>					
1	Bhanvad – Gop Jam	Outside IV consideration zone			
2	Gop Jam - Lalpur Jam				

General Staff Branch  
Integrated HQ of MoD (Army)  
Room No  
DHQ PO, New Delhi - 110011

B/46937/Sigs-7(b)/4594

22  
Apr 2025

General Manager  
M/s Avaada Energy Pvt Ltd  
406, 4<sup>th</sup> Floor, Hubtown Solaris  
N.S.Phadke Marg, Andheri (E)  
Mumbai - 400 069

PTCC PROPOSAL FOR "M/S AVAADA ENERGY PRIVATE LIMITED  
(GENERATION POOLING STATION IN VILLAGE- LALUKA, TALUKA-  
KHAMBALIYA, DISTRICT-DEVBHUMI DWARKA) – JAM KHAMBHALIYA  
PS 220 KV S/C LINE (ON D/C TOWERS)-(LINE LENGTH 15.7 KMS)

1. Ref your letter No. Avaada/ Jam-Khambaliya /PTCC/1 dt 04 Mar 2025.
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents along with map sheets (in original) are returned herewith for your further necessary action.



9  
(Puneet Lakhnopal)  
Lieutenant Colonel  
General Staff Officer Grade-I (Communication)  
for Additional Director General (Telecom)

Encl: As above

Internal:-

HQ Southern Comd (Sigs) -- for info pl.