



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. : MRA-1237		
Induced Voltage (IV) calculation in respect of PTCC proposal for 220 kV D/C line from 220 kV Umred SS to 220 kV Umred TSS for Ms South East Central Railway Traction load of 10MW (1.953 km)- regd.		
S. No	Reference No.	Dated
(i)	MRIDC: MRIDC/Elect/ITR-NAB/10MW/2024/01/145	23.01.2024
(ii)	MSETCL: Email	26.08.2025
(iii)	MSETCL: MSETCL/CO/DESIGN/G2/TSS/220kV Umred TSS/03850	19.06.2024
(iv)	BSNL: IC/MBI/PTCC/MRA-2731/02	29.07.2025
(v)	South East Central Railway: SECR/S&T/PTCC/NOC/93	23.04.2024
(vi)	Defense: B/46937/Sigs 7(b)/3700	09.04.2024

The PTCC proposal submitted vide above references (i), (ii) and (iii) has been examined. DET (PTCC), Mumbai (BSNL) has given NOC vide reference (iv) above. South East Central Railway has issued NOC vide reference (v) above.

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

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
220kV Umred TSS	60	30	0.053	162	87	NA	NA

As per the details submitted by BSNL vide reference (iv) 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.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Juhu Tara Road, Santacruz (West), Mumbai- 400054	
2.	PCSTE/SECR	O/o Principal Chief Signal & Telecom Engineer 2nd Floor, SECR Zonal Hq Building, Bilaspur- 495004	
3.	General Manager (MRIDC)	2nd Floor , Hoechst House , Nariman Point, Mumbai- 400021	Copy for Information

E-mail: webstar@nic.in

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

B/46937/Sigs 7(b)/3700/

09 Apr 2024

Maharashtra Rail Infrastructure Development Corp Ltd
 2nd Floor, Hoechst House, Nariman Point
 Mumbai-400 021

**PTCC PROPOSAL FOR 220KV UMRED TO UMRED TSS D/C FOR M/S SOUTH
 EASTERN RAILWAY TRACTION LOAD OF 10MW AT UMRED TSS, DIST-
 NAGPUR, TO BE SET UP BY M/S MRIDC, NAGPUR, LENGTH=1.953KMS**

1. Refer your letter No MRIDC/Elect/ITR-NAB/10MW/2024/01/145 dt 23 Jan 2024 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets 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)

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
 Bharat Sanchar Nigam Limited
 O/o PGM (North), QA & Inspection Circle,
 D-Tax Building, Eastern Court, Janpath
 New Delhi-110001