



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

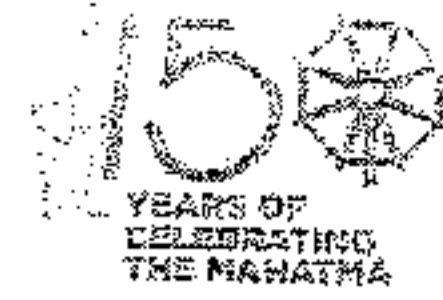
केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

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No. CEA/PCD/PTCC/MRA-1162/749-751

Date: 26.11.2020

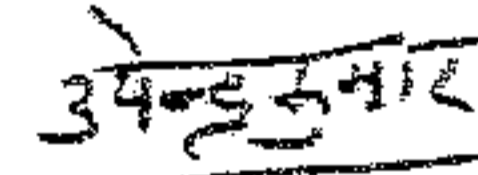
**Subject: Induced Voltage calculation in respect of PTCC proposal for LILO of 220 kV MSETCL Trombay – Nerul line at Adani Electricity Mumbai Limited (AEML) 220 kV Chembur EHV substation, length – 2.5 kms.**

- Ref:** (i) AEML letter no. AEML/TCM/Chembur 2<sup>nd</sup> Feed/19-20/004 dated 11.10.2019  
(ii) BSNL letter no. IC/MBI/PTCC/MRA-2452/06 dated 07.09.2020  
(iii) Central Railway letter no. N.153/PTCC/220kV/MAH-752 dated 09.03.2020  
(iv) Defense letter no. B/46937/Sigs 7(b)/2160 dated 05.11.2020

AEML submitted the subject proposal vide above cited reference (i). The low frequency induction on BSNL (OPGW Fiber Cable) and Railway Telecommunication circuits as per details furnished vide above cited references (ii) and (iii) respectively has been examined. The Soil Resistivity value has been taken as 75,000 Ohms-cm, as per data submitted by the Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables are less than 430 Volts. Further, voltages likely to be induced on paralleling Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref. (iv) for the above line (a copy enclosed at Annex-II).

Taking above into consideration, take necessary action regarding issue of PTCC route approval.

Enclosures: As above.

  
26.11.2020

(Upendra Kumar)  
Chief Engineer

To,  
Divisional Engineer (PTCC), Inspection Circle,  
Bharat Sanchar Nigam Limited (BSNL),  
3<sup>rd</sup> Floor, D-Wing, BSNL Admin Building  
Juhu Tara Road, Santacruz (West), Mumbai-400054

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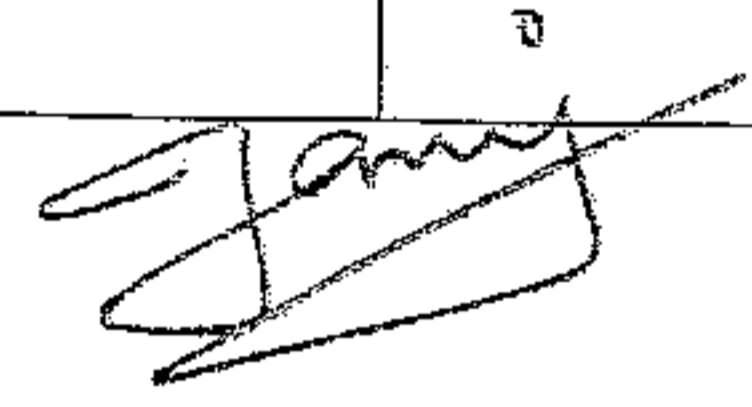
1. GM(S&T), Central Railway, CSMT Mumbai, Headquarters Office, S&T Branch, 3rd Floor, Annex Bldg, Mumbai CSMT, Mumbai-400001 (with Annexure-I).
2. Shri Sandeep Godbole, Asst. Vice-President, 220 kV Aarey EHV Sub-station, Opp. SEEPZ Gate No. 3, Aarey Colony, Goregaon (E), Mumbai - 400065

**ANNEXURE - I**

<b>Case No.: MRA-1162</b> <b>Name of the Power line: LILO of 220 kV MSETCL Trombay – Nerul line at Adani Electricity Mumbai Limited (AEML) 220 kV Chembur EHV substation.</b>		<b>Map Scale : 1cm=500mts</b> <b>Total Length : 2.5 km</b> <b>S.R. Value : 75,000 Ohms-cm</b>			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

**Central Railway**  
 Letter no. N.153/PTCC/220kV/MAH-752 dated 09.03.2020

<b>Affected Blocks &amp; Telcom Circuits Details</b>					
1	Dadar – Vikhroli	1.25	0.0004	9500	04
2	Wadala – Kurla	0.5	0.0001	9000	01
3	Wadala – Mahim	Out of Parallelism			
4	Kurla – Trombay	0.5	0.0003	9000	03
5	Kurla - Vashi	2.2	0.0025	9500	24



**तनुज / TANUJ**  
 सहायक निदेशक-II / Asstt. Dir. (A-2)  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-68

Tele : 23019746

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


B/46937/Sigs 7(b)/2160/

Nov 2020

Adani Electricity Mumbai Ltd  
220KV Aarey EHV Sub-Station  
Opp SEEPZ Gate No. 3, Aarey Colony,  
Goregaon(E), Mumbai-400 065,  
Maharashtra, India

PTCC PROPOSAL FOR LILO OF 220KV MSETCL TROMBAY-NERUL LINE AT ADANI  
ELECTRICITY MUMBAI LIMITED (AEML) 220KV CHEMBUR EHV SUBSTATION

1. Ref your letter No AEML/TCM/Chembur 2<sup>nd</sup> Feed/20-21/014 dt 02 Sep 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are forwarded herewith for your further action.

  
(A Rawat)  
Maj  
GSO 1 (Comn)  
for SO-in-C

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

The DET (PTCC), Northern Zone  
O/o PGM (North), QA & Inspection Circle,  
D-Tax Building, Janpath  
New Delhi-110001

for information

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24/11/20