



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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CEA Case No.: MRA-1172

PTCC proposal for LILO interconnecting line between 220 kV D/C transmission line (Ckt.-I) from 400 kV Waluj to Chitegaon S/S and 220 kV S/C transmission line from Padegaon to Sawangi S/S: 15.698 km

## Reference:

S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/LD/B-572/5218	07.12.2020
(ii)	BSNL: IC/MBI/PTCC/MRA-2482/02	23.03.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRMH202103RTD	31.03.2021
(iv)	Defense: B/46937/Sigs 7(b)/2250	18.01.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of South Central Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line. (a copy enclosed at Annexure-III)

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified

Digitally signed by RAGHUVENDRA PRATAP SINGH

Date: 2021.11.02 11:19:02 IST

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 <sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annexure-I & Annexure-III only
2.	SSTE/TELE/HQ	South Central Railway; Head Quarters office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad-500025.	Annexure-II only
3.	Chief Engineer (Projects Schemes)	MSETCL; O/o Chief Engineer, Projects Schemes Department, "Prakashganga", Plot No. C-19, E Block, Bandra-Kurla Complex, Bandra (East), Mumbai-400051.	Copy for information

m/c



**ANNEXURE-II**

Case No.: MRA - 1172

Name of the Power line: LILO Interconnecting line between 220 kV D/C transmission line (Ckt.-1) from 400 kV Waluj to Chitegaon S/S and 220 kV S/C transmission line from Padegaon to Sawangi S/S.

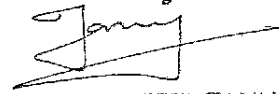
Map Scale : 1 cm=500 m  
Total Length : 15.698 km  
S.R. Value : 15,000 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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South Central Railway Ref. No: SG.85/4/3/PTCC/SCRMH202103RTD Dated: 11-09-2020

**Affected Blocks & Telecom Circuits Details**

S.No.	Block	Length in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
1	Lasur to Potul				00
2	Potul to Daultabad	3.9	0.0011	9963	11
3	Daultabad to Aurangabad	4.6	0.0042	10193	43

तनुज / TAMUJ  
सहायक निदेशक-II / Asstt. Director II  
केन्द्रीय विद्युत प्राधिकरण / C.E.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi-110006

Tele : 23019746

(Annexure-III)  
MAX-1172

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


B/46937/Sigs 7(b)/2250/

18 Jan 2021

Office of the Superintending Engineer,  
Projects Schemes Department  
Maharashtra State Electricity Transmission Company Ltd  
"Prakashganga", Plot No C-19, 'E' Block,  
Bandra - Kurla Complex, Bandra (East),  
Mumbai-400051

PTCC PROPOSAL FOR 220KV DC INTERCONNECTION (LENGTH=15.698KMS)  
BETWEEN (1) 220KV DC LINE (CKT 1) FROM 400KV WALUJ TO CHITEGAON S/S  
AND (2) 220KV SC LINE FROM PADEGAON TO SAWANGI S/S

1. Ref your letter No MSETCL/CO/PS/PTCC/220kV/LD/B-572/No 05218 dt 07 Dec 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