

I/26651/2023



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : MRA-1212		
PTCC approval for LILO of one circuit of 220 kV Boisar (PGCIL) – Nalasopara D/C line (loc. no. 203) at proposed 220 kV Palghar substation - regd.		
S. No	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-593/08301	24.11.2022
(ii)	MSETCL: Email	10.02.2023
(iii)	MSETCL: Email	01.03.2023
(iv)	BSNL: IC/MBI/PTCC/MRA-2572/03	19.12.2022
(v)	Western Railway: SG. 158/28/9/331	14.02.2023
(vi)	Defense: B/46937/Sigs 7(b)/3158	02.02.2023

The PTCC proposal and details submitted vide reference (i), (ii) & (iii) have been examined. Vide above reference (iv), BSNL has communicated NIL telecom details, hence, IV is not required for BSNL telecom cables. The LF induction on communication circuits of Western Railway with respect to details furnished vide above reference (v) has been computed. The voltages likely to be induced on paralleling communication circuits of Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. Defense has issued No Objection Certificate (NOC) vide above reference (vi) (copy enclosed 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 Palghar substation	100.75	50	0.07	719.31	441.75	NIL	NIL

As per the details submitted by BSNL vide reference (iii) above, no telephone exchanges are falling in the EPR zone of the proposed 220 kV Palghar S/S.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
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2.	General Manager (S&T)	Western Railway, O/o PCSTE, S&T Dept., 5 th floor, Station Building, Churchgate, Mumbai - 400020	
3.	Superintending Engineer (Project Schemes)	MSETCL, O/o Superintending Engineer (Project Schemes Dept.), Prakashganga, P. No. C19, #E, BKC, Bandra (East), Mumbai - 400051	Copy for information

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ANNEXURE-I

CEA Case No.: MRA-1212 Name of the Power line: LILO of one circuit of 220 kV Boisar (PGCIL) – Nalasopara D/C line (loc. no. 203) at proposed 220 kV Palghar substation		Map Scale : 1 cm= 500 m Total Length : 0.339 km S.R. Value : 20000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Western Railway Letter No: SG. 158/28/9/331 Date: 14.02.2023					
Affected Block & Telecom Circuits					
1	Kelve Road - Palghar	Out of parallelism			0
2	Palghar - Umroli	0.3	0.0008	15734	13
3	Umroli - Boisar	Out of parallelism			0

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Tele : 23019746

Annexure-II

MRA-1212

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


B/46937/Sigs 7(b)/3158/

02 Feb 2023

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

**PTCC PROPOSAL FOR 220KV DC LINE, LILO ON ONE OF CKTS OF 220KV
BOISAR (PGCIL)-NALASOPARA DC LINE AT PROPOSED 220KV PALGHAR
S/S, LENGTH=0.339KMS**

1. Refer your letter No MSETCL/CO/PS/PTCC/In/B-593/No 08301 dt 24 Nov 2022 (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.


(SP Choyal)
Lt Col
GSO 1 (Coord)
for Offg ADG T

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



AD - PM
LK
2023