

I/24119/2022



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

Date: 17.10.2022

CEA Case No. : MRA-1199
PTCC proposal for LILO on existing 220 kV Kharghar - ONGC line between loc. No. 2 & 3 to 220 kV Panvel TSS (0.8 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-590/03249	05.05.2022
(ii)	MSETCL: Email	12.10.2022
(iii)	BSNL: IC/MBI/PTCC/MRA-2542	02.08.2022
(iv)	Central Railway: N.153/PTCC/220kV/MAH-809	26.07.2022
(v)	Defense: B/46937/ Sigs 7(b)/2880	11.07.2022

The PTCC proposal and details submitted vide reference (i) & (ii) have been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of Central Railway with respect to details furnished vide above reference (iii) and (iv) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I & II respectively. The screening factors, as applicable, have been considered. Vide reference (v) above, The Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

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

Encl.: As above.

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annex-I & III
2.	GM (S&T)	Central Railway, O/o Principal Chief Signal & Telecom Engineer, 3 rd floor, Annex Building, CSMT Mumbai – 400001	Annex-II
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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विद्युत संचार विकास प्रभाग
Power Communication Development Division

दिनांक: 17.10.2022

के.वि.प्रा. केस सं. : MRA-1199
पी.टी.सी.सी. प्रस्ताव मौजूदा 220 केवी खारघर – ओएनजीसी लाइन के लोकेशन नं. 2 & 3 के बीच से 220 केवी पनवेल टीएसएस पर लीलो (0.8 कि.मी.)

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	एमएसईटीसीएल: MSETCL/CO/PS/PTCC/In/B-590/03249	05.05.2022
(ii)	एमएसईटीसीएल: ईमेल	12.10.2022
(iii)	बीएसएनएल: IC/MBI/PTCC/MRA-2542	02.08.2022
(iv)	मध्य रेल: N.153/PTCC/220kV/MAH-809	26.07.2022
(v)	रक्षा: B/46937/ Sigs 7(b)/2880	11.07.2022

संदर्भ (i) एवं (iii) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव एवं विवरण की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (iii) एवं (iv) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किट पर प्रेरित वोल्टेज गणना क्रमशः अनुलग्नक -I एवं II में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (v) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है (अनुलग्नक- III में संलग्न)।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

मुख्य अभियंता

सेवा में,

1.	डिवीज़नल इंजिनियर (पीटीसीसी), पश्चिम क्षेत्र	बीएसएनएल, इंस्पेक्शन सर्किल, तीसरा तल, डी विंग, बीएसएनएल एडमिन बिल्डिंग, जुहू तारा रोड, सांताक्रुज (वेस्ट), मुंबई -400054.	अनुलग्नक - I & III
2.	महाप्रबंधक (एस एंड टी)	मध्य रेल, प्रधान मुख्य संकेत एवं दूरसंचार अभियंता का कार्यालय, तीसरा तल, एनेक्स बिल्डिंग, सीएसएमटी मुंबई - 400001	अनुलग्नक - II
3.	सुपरसुपरिन्टेडिंग इंजिनियर (प्रोजेक्ट स्कीमस)	एमएसईटीसीएल, सुपरसुपरिन्टेडिंग इंजिनियर का कार्यालय (प्रोजेक्ट स्कीमस डिप्ट), प्रकाशगंगा, पी. सं. C19, #E, बीकेसी, बांद्रा (ईस्ट), मुंबई - 400051	जानकारी हेतु

I/24119/2022

Annexure-I

CEA Case No.: MRA-1199 Name of the Power line: LILO on existing 220 kV Kharghar - ONGC line between loc. No. 2 & 3 to 220 kV Panvel TSS			Map Scale : 1 cm=500 m Total Length : 0.8 km S.R. Value : 15,000 Ω-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Sl. No.	AREA MANAGER	Exch/RSU	CABLE TYPE	No. of Cable
1	AM(BELAPUR)	CBD BELAPUR	Primary	1
2	AM(BELAPUR)	CBD BELAPUR	Primary	1
3	AM(BELAPUR)	CBD BELAPUR	Primary	1
4	AM(BELAPUR)	CBD BELAPUR	Primary	1
5	AM(BELAPUR)	CBD BELAPUR	Primary	1
6	AM(BELAPUR)	CBD BELAPUR	Primary	1
7	AM(BELAPUR)	CBD BELAPUR	Primary	1
8	AM(BELAPUR)	CBD BELAPUR	Primary	1
9	AM(BELAPUR)	CBD BELAPUR	Primary	1
10	AM(BELAPUR)	CBD BELAPUR	Primary	1
11	AM(BELAPUR)	CBD BELAPUR	Primary	1
12	AM(BELAPUR)	CBD BELAPUR	Primary	1
13	AM(BELAPUR)	CBD BELAPUR	Primary	1
14	AM(BELAPUR)	CBD BELAPUR	Primary	1
15	AM(BELAPUR)	CBD BELAPUR	Primary	1
16	AM(BELAPUR)	CBD BELAPUR	Primary	1
17	AM(BELAPUR)	CBD BELAPUR	Primary	1
18	AM(BELAPUR)	CBD BELAPUR	Primary	1
19	AM(BELAPUR)	CBD BELAPUR	Primary	1
20	AM(BELAPUR)	CBD BELAPUR	Primary	1
21	AM(BELAPUR)	Old Panvel	Primary	2
22	AM(BELAPUR)	Old Panvel	Primary	3
23	AM(BELAPUR)	Old Panvel	Primary	2
24	AM(BELAPUR)	Old Panvel	Primary	2
25	AM(BELAPUR)	Old Panvel	Primary	2
26	AM(BELAPUR)	New Panvel	Primary	2
27	AM(BELAPUR)	New Panvel	Primary	5
28	AM(BELAPUR)	New Panvel	Primary	3
29	AM(BELAPUR)	Kalamboli	Primary	1
30	AM(BELAPUR)	Kalamboli	Primary	2
31	AM(BELAPUR)	Kalamboli	Primary	1
32	AM(BELAPUR)	Kalamboli	Primary	1
33	AM(BELAPUR)	Kalamboli	Primary	1
34	AM(BELAPUR)	Kalamboli	Primary	1
35	AM(BELAPUR)	Kalamboli	Primary	1
36	AM(BELAPUR)	Kalamboli	Primary	1
37	AM(BELAPUR)	Kalamboli	Primary	1
38	AM(BELAPUR)	Kalamboli	Primary	1
39	AM(BELAPUR)	Kalamboli	Primary	1
40	AM(BELAPUR)	Taloja	Primary	1
41	AM(BELAPUR)	Taloja	Primary	1
42	AM(BELAPUR)	Taloja	Primary	1
43	AM(BELAPUR)	Taloja	Primary	1
44	AM(BELAPUR)	Taloja	Primary	3
45	AM(BELAPUR)	Taloja	Primary	2

IV LESS THAN
430 V*Prateek*

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
सहायक निदेशक-I/Asstt. Director-I
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Min. of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

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Annexure-I

CEA Case No.: MRA-1199 Name of the Power line: LILO on existing 220 kV Kharghar - ONGC line between loc. No. 2 & 3 to 220 kV Panvel TSS		Map Scale : 1 cm=500 m Total Length : 0.8 km S.R. Value : 15,000 Ω -cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

AREA MANAGER	Exch/RSU	CABLE TYPE	No. of Cable
AM(BELAPUR)	Taloja	Primary	2
AM(BELAPUR)	Kamothe	Primary	1
AM(BELAPUR)	Kamothe	Primary	1
AM(BELAPUR)	Kamothe	Primary	1
AM(BELAPUR)	Kamothe	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1
AM(BELAPUR)	KHARGHAR	Primary	1

IV LESS THAN
430 V

Note:- As per the data submitted by MSETCL, Panvel exchange, MIDC exchange, New Panvel Exchange and GST Exchange are coming under 430 V EPR zone of Panvel TSS. It is requested to take necessary protective measures.

Prateek
 प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
 सहायक निदेशक-I/Asstt. Director-I
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Min. of Power
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ANNEXURE – II

CEA Case No.: MRA-1199 Name of the Power line: LILO on existing 220 kV Kharghar - ONGC line between loc. No. 2 & 3 to 220 kV Panvel TSS			Map Scale : 1 cm=500 m Total Length : 0.8 km S.R. Value : 15,000 Ω-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

CENTRAL RAIWAY		Ref. No: N.153/PTCC/220kV/MAH-809		Dated: 26.07.2022	
<u>Affected Blocks & Telecom Circuits Details</u>					
Seawoods –Panvel Section					
1	Seawoods - Belapur	Out of parallelism			0
2	Belapur – Kharghar				0
3	Kharghar – Mansarovar				0
4	Mansarovar - Khandeshwar				0
5	Khandeshwar - Panvel				0
Panvel - Taloje Section					
1	Panvel - Kalamboli	Out of parallelism			0
2	Kalamboli – Taloje				0
Panvel – Apta					
1	Panvel – Somtane	0.8	0.0084	16630	140
2	Somtane – Apta	Out of parallelism			0
Panvel – Mohape					
1	Panvel – Mohape	0.8	0.0084	16630	140
Panvel – Jasai					
1	Panvel – Dapoli	0.8	0.0092	16630	153
2	Dapoli - Jasai	Out of parallelism			0

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
 सहायक निदेशक-I/Asstt. Director-I
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Min. of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

/24119/2022 Tele : 23019746

Annexure-III

MRA - 1199

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


B/46937/Sigs 7(b)/2880/

11 Jul 2022

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 EXISTING 220KV KHARGHAR-
ONGC LINE FOR PROPOSED 220KV PANVEL TSS, LENGTH=0.8KMS**

1. Refer your letter No MSETCL/CO/PS/PTCC/In/B-590/No 03249 dt 05 May 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 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, Eastern Court, Janpath
New Delhi-110001

- for information

