

I/23983/2022



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

10.10.2022

Date: 03.10.2022

CEA Case No. : MRA-1196
PTCC proposal for 220 kV Khandeshwar GIS to Panvel GIS (Timber Market) UG cable (3.2 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-587/02040	23.03.2022
(ii)	MSETCL: Email	28.09.2022
(iii)	BSNL: IC/MBI/PTCC/MRA-2537	02.08.2022
(iv)	Central Railway: N.153/PTCC/220kV/MAH-806	21.07.2022
(v)	Defense: B/46937/ Sigs 7(b)/2829	10.05.2022

The PTCC proposal submitted vide reference (i) has 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 (ii) and (iii) 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 (iv) 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.

Prateek
 Assistant Director
 for 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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Government of India
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Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

10.10.2022

दिनांक: 03.10.2022

के.वि.प्रा. केस सं. : MRA-1196
पी.टी.सी.सी. प्रस्ताव खंडेश्वर जीआईएस से पनवेल जीआईएस (टिम्बर मार्केट) तक 220 केवी भूमिगत केबल (3.2 कि.मी.)

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	एमएसईटीसीएल: MSETCL/CO/PS/PTCC/In/B-587/02040	23.03.2022
(ii)	एमएसईटीसीएल: ईमेल	28.09.2022
(iii)	बीएसएनएल: IC/MBI/PTCC/MRA-2537	02.08.2022
(iv)	मध्य रेल: N.153/PTCC/220kV/MAH-806	21.07.2022
(v)	रक्षा: B/46937/ Sigs 7(b)/2829	10.05.2022

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव 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 (ii) एवं (iii) 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 (iv) 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

Prateek
 Assistant Director
 for 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/23983/2022

Annexure-I

CEA Case No.: MRA-1196 Name of the Power line: 220 kV Khandeshwar GIS to Panvel GIS (Timber Market) UG cable		Map Scale : 1 cm=500 m Total Length : 3.2 km S.R. Value : 3,000 Ω-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Sr. No.	Zone	AREA MANAGER	Exch/RSU	CABLE TYPE	No. of Cable
	Z-5	AM(BELAPUR)	Nerul	Primary	2
	Z-5	AM(BELAPUR)	Nerul	Primary	2
	Z-5	AM(BELAPUR)	Nerul	Primary	2
	Z-5	AM(BELAPUR)	Nerul	Primary	3
	Z-5	AM(BELAPUR)	Nerul	Primary	4
	Z-5	AM(BELAPUR)	Nerul	Primary	2
	Z-5	AM(BELAPUR)	Nerul	Primary	3
	Z-5	AM(BELAPUR)	SUKHKARTA	Primary	4
	Z-5	AM(BELAPUR)	Parsik Hill RSU	Primary	1
	Z-5	AM(BELAPUR)	Parsik Hill RSU	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	CBD BELAPUR	Primary	1
	Z-5	AM(BELAPUR)	Old Panvel	Primary	2
	Z-5	AM(BELAPUR)	Old Panvel	Primary	3
	Z-5	AM(BELAPUR)	Old Panvel	Primary	2
	Z-5	AM(BELAPUR)	Old Panvel	Primary	2
	Z-5	AM(BELAPUR)	Old Panvel	Primary	2
	Z-5	AM(BELAPUR)	Old Panvel	Primary	2
	Z-5	AM(BELAPUR)	New Panvel	Primary	2
	Z-5	AM(BELAPUR)	New Panvel	Primary	5
	Z-5	AM(BELAPUR)	New Panvel	Primary	3
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	2
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1

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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

I/23983/2022

Annexure-I

CEA Case No.: MRA-1196 Name of the Power line: 220 kV Khandeshwar GIS to Panvel GIS (Timber Market) UG cable			Map Scale : 1 cm=500 m Total Length : 3.2 km S.R. Value : 3,000 Ω-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

No.	Zone	AREA MANAGER	Exch/RSU	CABLE TYPE	Cable
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Kalamboli	Primary	1
	Z-5	AM(BELAPUR)	Taloja	Primary	1
	Z-5	AM(BELAPUR)	Taloja	Primary	1
	Z-5	AM(BELAPUR)	Taloja	Primary	1
	Z-5	AM(BELAPUR)	Taloja	Primary	1
	Z-5	AM(BELAPUR)	Taloja	Primary	3
	Z-5	AM(BELAPUR)	Taloja	Primary	2
	Z-5	AM(BELAPUR)	Taloja	Primary	2
	Z-5	AM(BELAPUR)	Kamothe	Primary	1
	Z-5	AM(BELAPUR)	Kamothe	Primary	1
	Z-5	AM(BELAPUR)	Kamothe	Primary	1
	Z-5	AM(BELAPUR)	Kamothe	Primary	1
	Z-5	AM(BELAPUR)			
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1
	Z-5	AM(BELAPUR)	KHARGHAR	Primary	1

IV LESS THAN
430 V*Prateek*

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
सहायक निदेशक-1/Asstt. Director-1
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Min. of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

I/23983/2022

ANNEXURE – II

CEA Case No.: MRA-1196 Name of the Power line: 220 kV Khandeshwar GIS to Panvel GIS (Timber Market) UG cable			Map Scale : 1 cm=500 m Total Length : 3.2 km S.R. Value : 3,000 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-806		Dated: 21.07.2022	
<u>Affected Blocks & Telecom Circuits Details</u>					
Vashi –Panvel Section					
1	Vashi - Sanpada	Out of parallelism			0
2	Sanpada – Jui Nagar				0
3	Jui Nagar - Nerul				0
4	Nerul - Seawoods				0
5	Seawoods - Belapur				0
6	Belapur – Kharghar				0
7	Kharghar – Mansarovar				0
8	Mansarovar - Khandeshwar	0.4	0.0004	23780	10
9	Khandeshwar - Panvel	2.8	0.0011	23780	26
Panvel - Taloje Section					
1	Panvel - Kalamboli	1.1	0.0001	21160	2
2	Kalamboli – Taloje	Out of parallelism			0
3	Taloje – Nilaje				0
Panvel – Somtane					
1	Panvel – Somtane	Out of parallelism			0
Panvel – Mohape					
1	Panvel – Mohape	Out of parallelism			0
Panvel – Jasai					
1	Panvel – Dapoli	Out of parallelism			0
2	Dapoli - Jasai				0

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
सहायक निदेशक-I/Asstt. Director-I
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विद्युत मंत्रालय/Min. of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-65

I/23983/2022

Tele : 23019746

MRA - 1196
 Directorate General of Signals
 Signals 7
 General Staff Branch
 Integrated HQ of MoD (Army)
 DHQ PO, New Delhi - 110011


B/46937/Sigs 7(b)/2829/

10 May 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 U/G CABLE LAYING FROM
 KHANDESHWAR GIS-PANVEL (TIMBER MARKET) GIS, LENGTH=3.2KMS**

1. Refer your letter No MSETCL/CO/PS/PTCC/In/B-587/No 02040 dt 28 Mar 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.


 (Anurag Mishra)
 Lt Col
 GSO 1 (Comm)
 for SO-in-C

Enclosures : As above

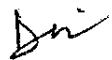
Copy to :-

✓ 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

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 17/05/22


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