

I/24159/2022(2)



**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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Date: 19.10.2022

CEA Case No. : MRA-1197
PTCC proposal for 220 kV UG LILO on Kalwa – TIFFIL transmission line tower no. 40 to Pawane GIS S/S (0.5 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-588/02612	08.04.2022
(ii)	MSETCL: Email	06.10.2022
(iii)	BSNL: IC/MBI/PTCC/MRA-2538	24.05.2022
(iv)	Central Railway: N.153/PTCC/220kV/MAH-807	21.07.2022
(v)	Defense: B/46937/ Sigs 7(b)/2841	20.05.2022

The PTCC proposal and details submitted vide reference (i) & (ii) 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 (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 <sup>rd</sup> 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 <sup>rd</sup> 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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**Power Communication Development Division**  
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दिनांक: 19.10.2022

<b>के.वि.प्रा. केस सं. : MRA-1197</b>
पी.टी.सी.सी. प्रस्ताव कालवा – टीआईएफएफआईएल ट्रांसमिशन लाइन के टावर सं. 40 से पवने जीआईएस उपकेन्द्र पर 220 केवी भूमिगत लीलो (0.5 कि.मी.)

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	एमएसईटीसीएल: MSETCL/CO/PS/PTCC/In/B-588/02612	08.04.2022
(ii)	एमएसईटीसीएल: ईमेल	06.10.2022
(iii)	बीएसएनएल: IC/MBI/PTCC/MRA-2538	24.05.2022
(iv)	मध्य रेल: N.153/PTCC/220kV/MAH-807	21.07.2022
(v)	रक्षा: B/46937/ Sigs 7(b)/2841	20.05.2022

संदर्भ (i) एवं (ii) 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 (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

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CEA Case No.: MRA-1197 Name of the Power line: 220 kV UG LILO on Kalwa – TIFFIL transmission line tower no. 40 to Pawane GIS S/S						Map Scale : 1 cm=500 m Total Length : 0.5 km S.R. Value : 30,000 Ω-cm			
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 LENGTH (Mtr)	LOCATION/ Stretch				
	Z-5	AM(VASHI)	VASHI	560	SEC-9, SEC-10 AND SEC-15				
	Z-5	AM(VASHI)	VASHI	290	SEC-9				
	Z-5	AM(VASHI)	VASHI	280	SEC-9A AND SEC-16				
	Z-5	AM(VASHI)	VASHI	760	SEC-15				
	Z-5	AM(VASHI)	VASHI	440	SEC-9 AND SEC-9A				
	Z-5	AM(VASHI)	VASHI	550	SEC-9, SEC-9A, SEC-10, SEC-11 AND SEC-12				
	Z-5	AM(VASHI)	VASHI	1200	SEC-18				
	Z-5	AM(VASHI)	VASHI	1220	SEC-19				
	Z-5	AM(VASHI)	VASHI	1200	SEC-19				
	Z-5	AM(VASHI)	VASHI	290	SEC-9, SEC-9A AND SEC-10				
	Z-5	AM(VASHI)	VASHI	750	SEC-14 AND SEC-15				
	Z-5	AM(VASHI)	VASHI	1450	SEC-12, SEC-14 AND SEC-29				
	Z-5	AM(VASHI)	VASHI	1250	SEC-14, SEC28 AND SEC-29				
	Z-5	AM(VASHI)	VASHI	160	SEC-14, SEC-15, SEC-16 AND SEC-16A				
	Z-5	AM(VASHI)	VASHI	1350	SEC-18				

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 विद्युत मंत्रालय/Min. of Power  
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Z-5	AM(VASHI)	VASHI	160	SEC-14, SEC-15, SEC-16 AND SEC-16A
Z-5	AM(VASHI)	VASHI	1200	SEC-14, SEC-15, SEC-16 AND SEC-29
Z-5	AM(VASHI)	VASHI	550	SEC-9, SEC-9A, SEC-10 AND SEC-11
Z-5	AM(VASHI)	VASHI	1200	SEC-19
Z-5	AM(VASHI)	VASHI	550	SEC-9, SEC-9A, SEC-10, SEC-10A, SEC-11, SEC-12, AND SEC-14
Z-5	AM(VASHI)	VASHI	160	SEC-16 AND SEC-16A
Z-5	AM(VASHI)	VASHI	400	SEC-17
Z-5	AM(VASHI)	VASHI	400	SEC-17
Z-5	AM(VASHI)	VASHI	720	SEC-17
Z-5	AM(VASHI)	VASHI	350	SEC-17
Z-5	AM(VASHI)	VASHI	400	SEC-17
Z-5	AM(VASHI)	VASHI	200	SEC-17
Z-5	AM(VASHI)	VASHI	560	SEC-9, SEC-9A, SEC-10, SEC-11 AND SEC-12
Z-5	AM(VASHI)	VASHI	780	SEC-14, SEC-15, AND SEC- 29
Z-5	AM(VASHI)	VASHI	1100	SEC-19
Z-5	AM(VASHI)	VASHI	780	SEC-15 AND SEC-28
Z-5	AM(VASHI)	VASHI	1500	SEC-19 AND SEC-29
Z-5	AM(VASHI)	VASHI	1000	SEC-14 AND SEC-29
Z-5	AM(VASHI)	VASHI	1710	SEC-14 AND SEC-29
Z-5	AM(VASHI)	VMART	1100	SEC-28
Z-5	AM(VASHI)	SANPADA	1000	Zunka Bhakar, Opp Parsik Bank Rd. Sec 4 Sanpada

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Z-5	AM(VASHI)	SANPADA	500	Golden Palace Pillar ,Sec 5 Sanpada
Z-5	AM(VASHI)	VASHI RLY STN	1500	Bhumiraj Costarica,palm beach rd, Sec 15 Sanpada
Z-5	AM(VASHI)	VASHI RLY STN	400	Center One Mall,Sec 30 Vashi
Z-5	AM(VASHI)	VASHI RLY STN	650	Balaji Towers,Sec 30 Vashi
Z-5	AM(VASHI)	VASHI RLY STN	175	Haware Fantasia sec 30,vashi (direct)
Z-5	AM(VASHI)	VASHI RLY STN	150	Maithili BSEL Tech Park sec 30 ,vashi (direct)
Z-5	AM(VASHI)	VSI Sec 7	2000	Galaxy Building Sec 2 Vashi
Z-5	AM(VASHI)	VSI Sec 7	600	F Type Market Sec 6 Vashi
Z-5	AM(VASHI)	TURBHE	4000	Pawane MIDC
Z-5	AM(VASHI)	TURBHE	4000	Pawane MIDC
Z-5	AM(VASHI)	TURBHE	2500	LP junction shirone
Z-5	AM(VASHI)	TURBHE	1000	Gargi company Midc TRB
Z-5	AM(VASHI)	TURBHE	3000	Indira nagar
Z-5	AM(VASHI)	TURBHE	1500	Amines and plastic MIDC TRB
Z-5	AM(VASHI)	TURBHE	1800	Punit,TRB store MIDC
Z-5	AM(VASHI)	TURBHE	500	Fish Market TRB
Z-5	AM(VASHI)	TURBHE	1000	Lubrizol Midc
Z-5	AM(VASHI)	TURBHE	4000	Khairne Midc
Z-5	AM(VASHI)	TURBHE	500	Khairne Midc Nr CETP Plopt
Z-5	AM(VASHI)	TURBHE	650	Khairne Midc Nr NFDC cold storage
Z-5	AM(VASHI)	TURBHE	300	Khairne midc Nr HK

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Z-5	AM(VASHI)	EL ZONE RSU	400	NR EL -87	
Z-5	AM(VASHI)	EL ZONE RSU	1000	global electronics EL Zone	
Z-5	AM(VASHI)	EL ZONE RSU	200	Gold star EL zone	
Z-5	AM(VASHI)	EL ZONE RSU	150	Near EL Zone RSU	
Z-5	AM(VASHI)	EL ZONE RSU	400	EL Zone EL-87	
Z-5	AM(VASHI)	EL ZONE RSU	200	Nelco EL zone	
Z-5	AM(VASHI)	Rabale	650	Nr goandevi Mandir, Opp R-855, Gothivali Goan	
Z-5	AM(VASHI)	Rabale	500	Deepti , Bhushan hotel, Ghansoli Sect-6	
Z-5	AM(VASHI)	Rabale	650	Bindal Society, Patel Dairy	
Z-5	AM(VASHI)	Rabale	800	Reliance Gate No-7, DAV School Parijat Society	
Z-5	AM(VASHI)	Rabale	550	Airoli Circle, Dominoz Pizza	
Z-5	AM(VASHI)	MBP	500		
Z-5	AM(VASHI)	MBP	500		
Z-5	AM(VASHI)	MBP	300	Jhumka bhakar ,pillar no 0312	
Z-5	AM(VASHI)	MBP	100	Pillar no-0314, near A781	
Z-5	AM(VASHI)	MBP	20	Repro pillar, near Repro company	
Z-5	AM(VASHI)	MBP	100	Sector -3,pillar 10103	
Z-5	AM(VASHI)	MBP	316	Ramada pillar-10102,near Ramada hotel.	
Z-5	AM(VASHI)	MBP	50	MIDC pillar-10104,Near MIDC office.	
Z-5	AM(VASHI)	MBP	1000	Graden pillar-near ,A 220	

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Z-5	AM(VASHI)	MBP	1000	Tie pillar, near A412
Z-5	AM(VASHI)	MBP	1000	sShiv kripa pillar, Shiv kripa hotel
Z-5	AM(VASHI)	MBP	500	Technocity pillar ,near Technocity , under bridge
Z-5	AM(VASHI)	MBP	104	MBP to Ashirvad hotel,pillar no-0101
Z-5	AM(VASHI)	MBP	1458	MBP to Hexaware,MBP
Z-5	AM(VASHI)	MBP	2270	MBP to Fire station
Z-5	AM(VASHI)	APMC	5000	Janta Market Sec-22, Sec-19E and Sec26
Z-5	AM(VASHI)	APMC	2400	Sec-24 & Sec 19
Z-5	AM(VASHI)	KKR	6000	Sector-1, 2 3,4,14,16 17 ,18,19,20, 22,23
Z-5	AM(VASHI)	KKR	2400	Sector- 4,5,6,7,8,11,12,19C
Z-5	AM(VASHI)	KKR	1200	Sector 9,10,11
Z-5	AM(VASHI)	KKR	600	BALAJI GARDEN
Z-5	AM(BELAPUR)	Nerul	2000	SHIRVANEGAON ,SEC 1 ,2,DY PATIL HOSPITAL
Z-5	AM(BELAPUR)	Nerul	3000	SEC 2 ,SEC 23,24,25 JUINAGAR
Z-5	AM(BELAPUR)	Nerul	1800	SEC 4 ,SEC 6 ,PALM BEACH SIDE ROAD
Z-5	AM(BELAPUR)	Nerul	1200	SEC 9 ,SEC 11, SEC 15 ARMY COLONY
Z-5	AM(BELAPUR)	Nerul	1000	SEC 19,SEC 21,SEC 23
Z-5	AM(BELAPUR)	Nerul	1600	SEC 27 PROGRESSIVE SCHOOL
Z-5	AM(BELAPUR)	Nerul	1500	SEC 20,SEC 28 NERUL WEST GAON
Z-5	AM(BELAPUR)	SUKHKARTA	1600	SEC 38.40,42,46,48 ,SEC 50 SEAWOOD

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Z-5	AM(BELAPUR)	KHARGHAR	3500	KGR Exch Sec20 to Raj tower, sec 19 KGR serving P0101/P0102/P0103/P0104/P0105/Daily Bazar/P0601 RAF Qtrs	
Z-5	AM(BELAPUR)	KHARGHAR	3000	KGR Exch to Sec3, Sec7, Sec4, Sec11,Sec5 & Sec6 KGR servingP0303/P0306/P0305/P0210/P0209/P0501/P0502	
Z-5	AM(BELAPUR)	Parsik Hill RSU	1400	Serving Pillars 103, 104	
Z-5	AM(BELAPUR)	Parsik Hill RSU	1600	Serving Pillars 101, 102, 105	
Z-5	AM(BELAPUR)	CBD BELAPUR	1600	Serving Pillars 408, 401, 308, 310, 201, 204, 205	
Z-5	AM(BELAPUR)	CBD BELAPUR	1800	Serving Pillars 416, 403, 404, 405, 410, 411, 412, 413	
Z-5	AM(BELAPUR)	CBD BELAPUR	560	Serving Pillars 402,417	
Z-5	AM(BELAPUR)	CBD BELAPUR	1400	Serving Pillars 101, 108, 106	
Z-5	AM(BELAPUR)	CBD BELAPUR	1600	Serving Pillars 403, 406, 410, 411	
Z-5	AM(BELAPUR)	CBD BELAPUR	750	Serving Pillars 401, 301, 308	
Z-5	AM(BELAPUR)	CBD BELAPUR	1500	Serving Pillars 101, 102, 103,104,204	
Z-5	AM(BELAPUR)	CBD BELAPUR	1700	Serving Pillars 308, 101, 201, 204, 110, 105, 109	
Z-5	AM(BELAPUR)	CBD BELAPUR	1500	Serving Pillars 421, 409, 411, 501	
Z-5	AM(BELAPUR)	CBD BELAPUR	1500	Serving Pillars 101, 202, 203, 206, 102, 105, 107	
Z-5	AM(BELAPUR)	CBD BELAPUR	1000	Serving Pillars 408, 409, 407	
Z-5	AM(BELAPUR)	CBD BELAPUR	1800	Serving Pillars 404, 405, 302, 309, 410, 411, 412, 413, 414	
Z-5	AM(BELAPUR)	CBD BELAPUR	1500	Serving Pillars 101, 102, 103, 108, 105, 106, 107	
Z-5	AM(BELAPUR)	CBD BELAPUR	1500	Serving Pillars 501	
Z-5	AM(BELAPUR)	CBD BELAPUR	1800	Serving Pillars 411, 418, 412, 414	
Z-5	AM(BELAPUR)	CBD BELAPUR	4200	Serving Pillars 302, 422, 419, 420	
Z-5	AM(BELAPUR)	CBD BELAPUR	1800	Serving Pillars 401, 102, 103, 104, 105, 106, 107, 501	
Z-5	AM(BELAPUR)	CBD BELAPUR	1600	Serving Pillars 206, 203, 207, 205	

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 विद्युत मंत्रालय/Min. of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi-66

Note: As per the details submitted by MSETCL, exchanges falling under 430V EPR zone of Pawane GIS are EL-Zone, MBP, KKR, KKR-13, VAS-14, VAS-7, Vashi, APMC, Vashi Rly Stn, Sanpada and Turbhe. Necessary protection may be taken.



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ANNEXURE – II

<b>CEA Case No.: MRA-1197</b> <b>Name of the Power line:</b> 220 kV UG LILO on Kalwa – TIFFIL transmission line tower no. 40 to Pawane GIS S/S		<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 0.5 km <b>S.R. Value</b> : 30,000 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-807		Dated: 21.07.2022	
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
Mankhurd – Kharghar Section					
1	Mankhurd - Vashi	Out of parallelism			0
2	Vashi - Sanpada				0
3	Sanpada – Jui Nagar				0
4	Jui Nagar - Nerul				0
5	Nerul - Seawoods				0
6	Seawoods - Belapur				0
7	Belapur – Kharghar				0
Airoli – Sanpada Section					
1	Airoli - Rabale	Out of parallelism			0
2	Rabale - Ghansoli				0
3	Ghansoli – Kopar Khairane				0
4	Kopar Khairane - Turbhe	0.15	0.0002	26550	5
5	Turbhe – Sanpada	Out of parallelism			0
Kalamboli – Diva Section					
1	Kalamboli - Taloje	Out of parallelism			0
2	Taloje – Nilaje				0

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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/24159/2022(2)

MRA - 102/1197

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)/2841/

20 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 LILO  
POINT (L.NO. 40) TO PROPOSED 220KV PAWANE GIS, LILO ON ONE  
OF CKTS OF EXISTING 220KV KALWA TIFIL DC LINE AT PROPOSED  
220KV PAWANE GIS, LENGTH=0.51KMS**

1. Refer your letter No MSETCL/CO/PS/PTCC/In/B-588/No 02612 dt 08 Apr 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.

  
(Suresh Pal 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/c PGM (North), QA & Inspection Circle,  
D-Tax Building, Eastern Court, Janpath  
New Delhi-110001

- for information

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