



आजादी का  
अमृत महोत्सव

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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के.वि.प्रा. केस सं. : MRA-1179 / 52-54
पी.टी.सी.सी. प्रस्ताव Reorientation of 220 kV lines – 4 nos. (220 kV Chinchwad Parvati, 220 kV Chinchwad Urse, 220 kV Chinchwad Hinjewadi & 220 kV Chinchwad flagship lines) at 220 kV Chinchwad SS: 0.826 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/B-578/01850	23.03.2021
(ii)	BSNL: IC/MBI/PTCC/MRA-2494	17.09.2021
(iii)	Central Railway: N.153/PTCC/220kV/MAH-775	19.07.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2393	28.05.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं मध्य रेल के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) और (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 और टेलीकॉम सर्किट पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I एवं अनुलग्नक -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: ऊपरोक्त अनुसार

सचिव प्रमाण विभाग  
28.1.22  
निदेशक

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.
2.	GM (S&T).	Central Railway, Headquarters Office, S&T Branch, 3 <sup>rd</sup> Floor, Annex Bldg., Mumbai CSMT
3.	Superintending Engineer (Project Schemes)	MSETCL, O/o Superintending Engineer (Project Schemes Dept.), Prakashganga, P. No. C19, #E, BKC, Bandra (East), Mumbai - 400051

Annexure-I only

Copy for information

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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-1179 / 52-54  
PTCC proposal of Reorientation of 220 kV lines – 4 nos. (220 kV Chinchwad Parvati, 220 kV Chinchwad Urse, 220 kV Chinchwad Hinjewadi & 220 kV Chinchwad flagship lines) at 220 kV Chinchwad SS: 0.826 km

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/B-578/01850	23.03.2021
(ii)	BSNL: IC/MBI/PTCC/MRA-2494	17.09.2021
(iii)	Central Railway: N.153/PTCC/220kV/MAH-775	19.07.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2393	28.05.2021

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 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 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. 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.

राधाकृष्ण प्रसाद सिंह  
Director 28.1.22

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.	
2.	GM (S&T).	Central Railway, Headquarters Office, S&T Branch, 3 <sup>rd</sup> Floor, Annex Bldg., Mumbai CSMT.	Annexure-II only
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

CFA Case No.: MRA-1179

Annex-I

B578

Cable details of B578 No 1850 Dt 230321 Reori of 4 nods 220 KV CHD

SR-10000 R-cm

No	Name of the exchange/ No of cables	Length of parallellism in KMs	Mutual coupling in Ohms	Fault current in Amps	Induced voltage in Volts
1	Akurdi				
	1200 Pr X 10 No	0.5 Km			
	800 Pr X 8 Nos	1 Km			
	400 Pr X 28 Nos	1 Km			
2	Yamunanagar				
	400 Pr X 11 Nos	1 Km			
	800 Pr X 7 Nos	0.5 Km			
	1200 Pr X 6 No	0.5 Km			
3	Chinchwadgaon				
	400 Pr X 4 Nos	1 Km			
	800 Pr X 1 Nos	0.8 Km			
	1200 Pr X 5 No	0.5 Km			
4	Talwade				
	800 Pr X 13 Nos	0.8 Km			
5	Bhosari				
	400 Pr X 3 Nos	1.5 Km			
	800 Pr X 1 Nos	0.5 Km			
	1200 Pr X 15 No	0.8 Km			
6	Dapodi				
	400 Pr X 3 Nos	0.5 km			
	800 Pr X 5 Nos	0.5 Km			
	1200 Pr X 3 No	0.5 Km			
7	Panjarpol				
	400 Pr X 2 Nos	0.5 km			
	1200 Pr X 1 No	0.5 Km			
8	Chinchwad				
	800 Pr X 7 Nos	1 km			
	1200 Pr X 8 No	0.5 Km			
9	Shewale Complex				
	400 Pr X 7 Nos	0.8 km			
	1200 Pr X 1 No	0.5 Km			
10	Kharalwadi				
	800 Pr X 7 Nos	1 km			
	1200 Pr X 8 No	0.5 Km			
11	HAL				
	400 Pr X 4 Nos	0.8 km			
	800 Pr X 2 No	0.5 Km			
12	RTTC				
	400 Pr X 6 Nos	1 km			
13	Viveknagar				
	400 Pr X 4 Nos	0.8 km			

IV less

than 930 V

*Prateek*

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श्री प्रदीप प्रदीप प्रदीप प्रदीप

	800 Pr X 5 Nos	1 km			
	1200 Pr X 6 No	0.5 Km			
15	Hinjewadi				
	400 Pr X 5 Nos	1.5 Km			
	800 Pr X 1 Nos	0.5 Km			
	1200 Pr X 1 No	0.8 Km			
16	Pimprigaon				
	800 Pr X 3 Nos	0.5 Km			
	1200 Pr X 11 No	0.5 Km			
17	Katepuram				
	400 Pr X 3 Nos	1.5 Km			
	800 Pr X 1 Nos	0.5 Km			
	1200 Pr X 2 No	0.8 Km			
18	Sanghavi				
	800 Pr X 1 Nos	0.5 Km			
	1200 Pr X 7 No	0.8 Km			
19	Dehuroad				
	1200 Pr X 4 Nos	1 KM			
	800 Pr X 2 Nos	1 KM			

IV less than  
930V

*P. Vastava*

प्रतीक शंकर/Pr. VASTAVA  
 सहायक निदेशक-II - Assn. Director-II  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत विभाग/Ministry of Power  
 नई दिल्ली/Govt. of India  
 New Delhi

## ANNEXURE - II

CEA Case No.: MRA-1179				Map Scale : 1 cm=500 m	
Name of the Power line: Reorientation of 220 kV lines - 4 nos. (220 kV Chinchwad Parvati, 220 kV Chinchwad Urse, 220 kV Chinchwad Hinjewadi & 220 kV Chinchwad flagship lines) at 220 kV Chinchwad SS				Total Length : 0.826 km	
				S.R. Value : 10,000 $\Omega$ -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-775			Dated: 19.07.2021		
<u>Affected Blocks &amp; Telecom Circuits Details</u>					
1	Shelarwadi - Dehu Rd	Out of Parallelism			0
2	Dehu Rd - Akurdi				0
3	Akurdi - Chinchwad	0.3	0.0004	10000	4
4	Chinichwad - Pimpri	Out of Parallelism			0
5	Pimpri - Dapodi				0
6	Dapodi - Khadki				0

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
सहायक निदेशक : Asstt. Director-II  
केंद्रीय विद्युत प्राधिकरण / C.E.A.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Tele : 23019746

MRA-1179

Annex-III

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

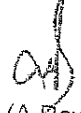
26 May 2021

B/46937/Sigs 7(b)/2393/

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 RE-ORIENTATION OF 4 NOS. OF 220KV DC LINES AT  
220KV CHINCHWAD S/S VIZ. 220KV CHINCHWAD-PARVATI LINE,  
220KV CHINCHWAD-URSE LINE, 220KV CHINCHWAD-HINJEWADI LINE &  
220KV CHINCHWAD-FLAGSHIP LINE, LENGTH=0.826KMS

1. Refer your letter No MSETCL/CO/PS/PTCC/220KV/B-578/No 01850 dt 23 Mar 2021 (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)  
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 M  
Katwaria Sarai, New Delhi - 110016

The DET(PTCC)  
01-

MTC-111 