



असतो मा सद्गमय
शुभं कुरुते

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

के.वि.प्रा. केस सं. : MRA-1166
पी.टी.सी.सी. प्रस्ताव 220 kV S/C line on D/C tower from Shirsupal to proposed 220 kV Shirsai TSS (3.228 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/LD/B-571/No. 03343	10.09.2020
(ii)	BSNL: IC/MBI/PTCC/MRA-2466	13.08.2021
(iii)	Central Railway: N.153/PTCC/220kV/MAH-757	06.10.2020
(iv)	Defense: D/46937/ Sigs 7(b)/ forwarded by MSETCL through email dated 12.01.2022	24.12.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं मध्य रेल के ब्लॉक और टेलिकॉम 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 टेलिकॉम 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: उपरोक्त अनुसार

प्रमुख निदेशक
30/11/22
निदेशक

To,			
1.	Divisional Engineer (PTCC), Western Zone	BSNL, Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santaacruz (West), Mumbai-400054.	
2.	GM (S&T).	Central Railway, Headquarters Office, S&T Branch, 3 rd 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

m/c



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Power Communication Development Division

CEA Case No. : MRA-1166
PTCC proposal of 220 kV S/C line on D/C tower from Sidrsupal to proposed 220 kV Shir sai TSS (3.228 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MS/TCI/CO/PS/PTCC/220kV/LD/B-571/No. 03343	10.09.2020
(ii)	BSNL: IC/MBI/PTCC/MRA-2466	13.08.2021
(iii)	Central Railway: N.153/PTCC/220kV/MAH-757	06.10.2020
(iv)	Defense: B/46937/ Sigs 7(b)/ forwarded by MSETCL through email dated 12.01.2022	24.12.2021

The PTCC proposal submitted vide reference (i) has been examined. The J.F 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 conditional 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.

Incl: As above.

Proposed route finally kept
22.12.2022
Director

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.	
2.	GM (S&T)	Central Railway, Headquarters Office, S&T Branch, 3 rd 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

Annex-I

CEA office case No. RAB A-1166	Map scale - 1:50000
DDI (PTCC) office case No-	Route length- 3.225
Highway office case no.	Soil resistivity- 10000 Ω-cm
Name of the power line	Proposed 220 KV SC line from existing 220 KV Shirsufal S/S to propose 220 KV TSS near Shisai Rly station

Sl. No.	Name of the Telecom line / cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induced Voltage in Volts	
A. Gajbavi Exchange						
1	200 Pairs X 1	0.5	} IV less than 430V			
2	50 Pairs X 1	1.5				
3	50 Pairs X 2	1				
B. Shirsufal Exchange						
1	100 Pair X 2	1				
2	100 pair X 1	0.5				
C. Undewadi Exchange						
1	100 Pairs X 2	3.5				
2	50 Pairs X 1	1				
D. Karkhel Exchange						
1	100 Pairs X 2	2.2 & 1.8				
2	50 Pairs X 2	1.2 & 1.5				

Patel

DDI (PTCC) Office Case No. RAB A-1166
 Proposed 220 KV SC line from existing 220 KV Shirsufal S/S to propose 220 KV TSS near Shisai Rly station
 Date: 10/10/2014
 At: Mumbai

ANNEXURE - II

CEA Case No.: MRA-1166 Name of the Power line: 220 kV S/C line on D/C tower from Shirsupal to proposed 220 kV Shirsa TSS		Map Scale : 1 cm=500 m Total Length : 3.228 S.R. Value : 10,000 Ω-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in Volts.

CENTRAL RAILWAY		Ref No: N.153/PTCC/220kV/MAH-757		Dated: 06.10.2020	
Affected Blocks & Telecom Circuits Details					
1	Daund - Maladgaon (Halt Stn)	Outside IV consideration zone			0
2	Maladgaon (Halt Stn) - Shirsa (Halt Stn)	1.4	0.0010	8100	8
3	Shirsa (Halt Stn) - Sirsupal (Halt Stn)	0.5	0.0003	7500	2
4	Sirsupal (Halt Stn) - Katphal (Halt Stn)	0.6	0.0012	10000	12
5	Katphal (Halt Stn) - Baramati	Outside IV consideration zone			0

Pratibha

220 kV S/C line on D/C tower from
 Shirsa to proposed 220 kV Shirsa TSS
 Length 3.228 km. S.R. Value 10,000 Ω-cm
 S.R. Value 10,000 Ω-cm
 IV Consideration Zone

Annex - III

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)

21 Dec 2021

Office of the Superintending Engineer
(Project Schemes Department)
Maharashtra State Electricity Transmission Company Ltd.
Prakashganga Plot No C- 19,
'E' Block, Bandra - Kuria Complex
Bandra (East), Mumbai - 400051

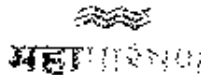
PTCC CLEARANCE

1. Reference your letter No MSETCL/CO/PS/PTCC/Def.NOC/No.07039 dt 25 Nov 2021.
2. Details sought vide your letter under reference are as listed below:-
 - (a) The cases at S.No. 1 & 2 were again processed, for re-consideration from your Corporation vide your letter No MSETCL/CO/PS/PTCC/Def. NOC/04775 dt 17 Aug 2021, have been perused by this office and "NOC is accorded subject to manual digging at the places of crossing of NFS OFC trenches".
 - (b) NOC in r/o of the case at S.No. 3 has been forwarded vide this office letter No. B/46937/Sigs 7(b)/2345 dt 01 Dec 2021 (copy encl).
 - (c) NOC in r/o the case at S.No. 4 has been forwarded vide this office letter No. B/46937/Sigs 7(b)/2464 dt 21 Oct 2021 (copy encl).
 - (d) Reply in r/o the case at S.No. 5 has already been forwarded vide this office letter No. B/46937/Sigs 7(b)/2517 dt 01 Dec 2021 (copy encl).

(Rakesh Kumar)
Lt Col
GSO 1 (Comn)
for SO-in-C

Enc: As above

Thyagaraj
Maha



DPA

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

CIN 1401003MH2005SGC15366

From the office of

The Superintending Engineer (Projects Schemes Department).

C.O., 'Prakashganga', P. No. C/19, # E, BKC, Bandra (East), Mumbai - 400051.

922- 26595130 / 5131.

se [prj]@mahatransco.in, seprj1@gmail.com, ea2prj@mahatransco.in

MSETCL/CO/PS/PTCC/Def. NOC/ **No 07039**

Date: **25 NOV 2021**

To
The Lt. Col. GSC (Comm),
Directorate General of Signals,
Signal 7, General Staff Branch,
Integrated HQ of MoD, (Army),
DHQ PO, New Delhi - 110011

(By R.P.A.D)

Subject : NOCs by Defense awaited for PTCC proposals RACs release pertaining Pune region

Ref : T.O. Ltr. MSETCL/CO/PS/PTCC/Def. NOC/No.4773. Dtd.17-8-2021

This office has already requested for Defense NOCs vide letter under reference for release of Final PTCC RACs of the following

- (1) 220kV DC line from Shirasphal to prop. 220kV Shirasai TSS, 3.22kms.
- (2) 132kV DC line, LHO on exist. 132kV Chinchwad(LHO) - Chakaa(P-II) line for 132kV Airquisite India Holding Ltd., Chakan MIDC, Sawadari, 6.842 kms.

Further, following cases are also pending only for Defense NOCs against Final PTCC RACs

- (3) Conversion work of exist. 132kV NCL-Kothrud DC o'n line into u/g DC cable due to Metro alignment at Vazir (Kothrud), Pune in the span between L.No.50 to 52, 0.677 kms.
- (4) Diversion of 132kV Phursungi - Mundhwa line between Loc. No. 31 to 37 for M's Amanora Park at Madhapur, Tal. -Haveli, Dist. - Pune, 1.5 kms.
- (5) 132kV DC u/g cable from existing 220kV Chinchwad S/s to proposed 132kV Pimpri Metro TSS (Pune Metro Rail Project), 5.03 kms.
- (6) 132kV DC u/g cable from existing 132kV Ganeshkhind S/s to proposed 132kV Range Hill Metro TSS (Pune Metro Rail Project), 3.43 kms.

It is thus again requested kindly to discuss in this regard with CEA, New Delhi and issue NOCs of such cases pending only for want of Defense NOCs for Final PTCC RACs issuance.

Thanking you.

[Signature]
Superintending Engineer
(Projects Schemes)

Copy s.w.r to :
The Director (CLPTCC),
PCDD, CEA,
NRPC, 18-A, Shahid Jeet Singh Marg, Katwaria Sarai,
New Delhi - 110016

[Handwritten notes and signatures]

[Handwritten signatures]