



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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CEA Case No. : MRA-1178 / 78-21  
PTCC proposal of 220 kV D/C Koradi-II to Uppalwadi substation (OH line from CTT-I to CTT-II and UG cable from 400/220 kV Koradi-II substation to CTT-I & CTT-II to 220 kV Uppalwadi substation); 6.795 km (OH - 2.797 km & UG - 3.998 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/B-576/1754	18.03.2021
(ii)	BSNL: IC/MBI/PTCC/MRA-2490	25.11.2021
(iii)	Central Railway: N.153/PTCC/220kV/MAH-776	19.07.2021
(iv)	South East Central Railway: SECR/S&T/PTCC/TD/330	11.08.2021
(v)	Defense: B/46937/ Sigs 7(b)/2391	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 & South East Central Railway with respect to details furnished vide above references (ii), (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 & South East Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I, Annexure-II and Annexure-III 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-IV).  
Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.  
Encl.: As above.

राजेश कुमार सिंह  
3.2.22  
Director

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.	Dy. CSTE	South East Central Railway, O/o of PCSTE, 2 <sup>nd</sup> floor, SECR Zonal HQ Building, Bilaspur - 495004	Annexure-III only
4.	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

CEA Case No. 2 PARA-1170

Annex-I

PTCC Office Case No		Map Scale	1:50,000		
DET(PTCC) Office Case No		Route Length	2.797 Km (O/H)		
			3.998 Km (U/G)		
Railway Office Case No		Soil Resistivity	10000 $\Omega$ -cm		
Name of Power Line	220 KV Koradi II - Uppalwadi DC Line (Length - 2.797 Km (O/H), 3.998 Km (U/G))				
Sr. No.	Name of Telephone Line/Cable	Length of Parallelism in Kms	Mutual Coupling in Ohms	Fault Current in Amps	Induced Voltage in Volts
1	Telephone Exchange	0.200	9		
2	Koradi P Panjara		6 TV	less than	
3				430 V	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

*Prateek*

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

**ANNEXURE - II**

<b>CEA Case No.: MRA-1178</b> <b>Name of the Power line:</b> 220 kV D/C Koradi-II to Uppalwadi substation (OH line from CTT-I to CTT-II and UG cable from 400/220 kV Koradi-II substation to CTT-I & CTT-II to 220 kV Uppalwadi substation)		<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 6.795 km(OH-2.797 km & UG-3.998 km) <b>S.R. Value</b> : 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-776		Dated: 19.07.2021	
<b>Affected Blocks &amp; Telecom Circuits Details</b>					
1	Ajni – Nagpur	Outside IV consideration zone			0
2	Nagpur – Godhani	2.7	0.0005	7500	4
3	Godhani – Bharatwada	0.8	0.0001	10000	1
4	Bharatwada - Kalmeshwar	Outside IV consideration zone			0

*Prateek*

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

**ANNEXURE - III**

<b>CEA Case No.: MRA-1178</b>		<b>Map Scale : 1 cm=500 m</b>			
<b>Name of the Power line: 220 kV D/C Koradi-II to Uppalwadi substation (OH line from CTT-I to CTT-II and UG cable from 400/220 kV Koradi-II substation to CTT-I &amp; CTT-II to 220 kV Uppalwadi substation)</b>		<b>Total Length : 6.795 km(OH-2.797 km &amp; UG-3.998 km)</b>			
		<b>S.R. Value : 10,000 <math>\Omega</math>-cm</b>			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

<b>SOUTH EAST CENTRAL RAIWAY Ref No: SECR/S&amp;T/PTCC/TD/330 Dated: 11.08.2021</b>					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Kanhan - Kamptee	Outside IV consideration zone			0
2	Kamptee - Kalumna	Out of parallelism			0
3	Kalumna - Itwari	0.2	0.000002	10000	0
4	Itwari - Nagpur	Outside IV consideration zone			0
5	Kalumna - Nagpur	0.2	0.000002	10000	0
6	Itwari - Kuhi	0.2	0.000002	10000	0

*Prateek*

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

Tele : 23019746

**MRA-1178**

**Annex-IV**

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

**8** May 2021

B/46937/Sigs 7(b)/2391/

Office of the Superintending Engineer,  
Projects Schemes Department  
Maharashtra State Electricity Transmission Co. Ltd.  
"Prakashganga", Plot No C-19,  
3<sup>rd</sup> Floor, Bandra - Kurla Complex, Bandra (East),  
Mumbai-400051

**PTCC PROPOSAL FOR 220KV DC LINE FROM KORADI-II TO UPPALWADI O/H  
TRANSMISSION LINE FROM CTT (CABLE TERMINATION TOWER)-1 TO CTT-2  
AND U/G CABLE FROM 400/220KV KORADI-II S/S TO CTT-1 & CTT-2 TO 220KV  
UPPALWADI-S/, LENGTH-O/H-2.797KM & U/G-3.998KM**

1. Refer your letter No MSETCL/CO/PS/PTCC/220KV/B-576/No 01754 dt 18 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**  
(A Rawat)  
Lt Col  
GSO 1 (Comn)  
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/p PGM (North), QA & Inspection Circle  
D/Tax Building, Eastern Court, Janpath  
New Delhi-110001

for information



**A** 235  
MTC-11  
25/5  
**Del**  
**25/5**