



**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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<b>CEA Case No. : KNK-960</b>
<b>PTCC proposal of 220 kV SC line on DC tower with 2 phase drake conductor from the existing 220/110/11 kV substation Kudachi to the proposed 220/25 kV traction substation at Chinchli Railway Station in Belagavi district (4.626 km)</b>

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3145/12036-44	04.02.2021
(ii)	BSNL: SR-PTCC/SKT-2929/4	18.05.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3145/2135	09.04.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2339 received through e-mail on 25.02.2022	06.04.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of South Western Railway with respect to details furnished vide above reference (ii) and reference (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of South Western 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.

*Raghendra Pratap Singh*  
03.03.2022  
Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	PCSTE	South Western Railway, Rail Soudha, Gadag Road, Hubballi - 20	Annex-II only
3.	Chief Engineer Electricity	KPTCL, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009	With an advice to submit PTCC proposals of lines owned by KPTCL only

File No.CEA-PS-17-11(14)/16/2022-PCD Division / 222-224



आजादी का  
अमृत महोत्सव

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Power Communication Development Division  
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के.वि.प्रा. केस सं. : KNK-960
पी.टी.सी.सी. प्रस्ताव 220 kV SC line on DC tower with 2 phase drake conductor from the existing 220/110/11 kV substation Kudachi to the proposed 220/25 kV traction substation at Chinchli Railway Station in Belagavi district (4.626 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CEE/SLDC/PTCC/F-3145/12036-44	04.02.2021
(ii)	BSNL: SR-PTCC/SKT-2929/4	18.05.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3145/2135	09.04.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2339 received through e-mail on 25.02.2022	06.04.2021

सन्दर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं दक्षिण पश्चिम रेलवे के ब्लॉक एंड टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त सन्दर्भ (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 दक्षिण पश्चिम रेलवे के ब्लॉक एंड टेलिकॉम सर्किटों पर प्रेरित वोल्टेज क्रमशः अनुलग्नक - I एवं II में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त सन्दर्भ (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

राघवेंद्रु प्रताप सिंह  
निदेशक 03.03.2022

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	PCSTE	South Western Railway, Rail Soudha, Gadag Road, Hubballi - 20	Annex-II only
3.	Chief Engineer Electricity	KPTCL, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009	With an advice to submit PTCC proposals of lines owned by KPTCL only

CEA Case no. : KNK-960

Annex - I

Case No.SKT-2929/F-3145		SSA: Bengaluru			
Name of the power line: PTCC proposal for Proposed 220KV Transmission lines on DC Towers with 2 phase Drake conductor from existing 220/110/11 KV SS at Kudachi to the proposed 220/25 KV Traction Sub Station at Chinchli Railway Station in Belagavi District.					
Length:	4.626	Kms			
SR value: 2000 Ohm-cms					
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I (P)	PARAMANANDWADI telephone exchange				
1	Exge to Suttati Cross (P1-P2)				
2	Exge to Shiragur (P1-P3)				
II (C)	CHINCHALI telephone Exchange		IV	less	
1	Exge to Station road (C-C1)				
2	Exge to Kodi (C-C2)		thor	930 V	
3	Exge to Local Area Towards Morab (C-C3)				
4	Exge to Bhiradi (C-C4)				
5	Exge to Kudchi Road (C-C5)				
III (K)	KUDACHI telephone exchange				
1	Exge to Circle (K-K1)				
2	Exge to Jamakhandi Road (K-K1-K2)				
3	Exge to Ugar Road (K-K1-K3)				
4	Exge to Railway Station Road (K-K1-K4)				
5	Exge to KEB Station (K-K1-K5)				

Prateek

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

\* S.R. value has been taken based on Soil Resistivity Report submitted by POWERGRID through email dated 0.2/03/2022

**ANNEXURE-II**

<b>CEA Case No.: KNK-960</b> <b>Name of the Power line:</b> 220 kV SC line on DC tower with 2 phase drake conductor from the existing 220/110/11 kV substation Kudachi to the proposed 220/25 kV traction substation at Chinchli Railway Station in Belagavi district			<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 4.626 km <b>S.R. Value*</b> : 2,000 $\Omega$ -cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

SOUTH WESTERN RAILWAY Ref. No: SG/SWR/PTCC/F-3145/2135 Dated: 09.04.2021					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Kudachi - Chinchali	4.5	0.0049	10000	49

\*S.R. Value has been taken based on Soil Resistivity Report submitted by POWERGRID through email dated 02.03.2022

*Prateek*  
प्रतीक प्रभाकर शर्मा  
सहायक निदेशक-II / Asstt. Director-II  
केन्द्रीय विद्युत निदेशक / C.E.A.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Annex-III

Tele 23019745

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


B/46937/Sigs 7(b)/2339

06 Apr 2021

Office of the Chief Engineer Electricity,  
Karnataka Power Transmission Corporation Limited  
State Load Despatch Centre,  
# 2B, R.C. Cross Road,  
Bengaluru - 560 009

**PROPOSED 220KV TRANSMISSION LINES ON DC TOWERS WITH 2 PHASE  
DRAKE CONDUCTOR FROM EXISTING 220/110/11KV SS AT KUDACHI TO THE  
PROPOSED 220/25KV TRACTION SUBSTATION AT CHINCHLI RAILWAY  
STATION IN BELAGAVI DISTRICT**

1. Refer your letter No CEE/SLDC/ PTCC/F-3145/12036-44 dt 04 Feb 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 returned herewith for your further necessary action.

  
(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 Jeeb Singh Marg  
Katwaria Sarai, New Delhi - 110016

for information

The DET(PTCC), Northern Zone  
O/o PGM (North), QA & Inspection Circle,  
D-Tax Building, Eastern Court, Janpath  
New Delhi-110001

✓