



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. : KNK-977: 241-243.5
पी.टी.सी.सी. प्रस्ताव 220 kV D/C transmission line on D/C towers from existing 220/66/11 kV KPTCL S/S at Chitradurga to proposed 220/25 kV M/s RVNL Railway Traction S/S at Madakaripura Village in Chitradurga Taluk and district: 3.903 km

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CEE/SLDC/PTCC/F-3231/5402-10	19.08.2021
(ii)	BSNL: SR-PTCC/SKT-3526/4	18.02.2022
(iii)	South Western Railway: SG/SWR/PTCC/F-3231/2211	27.09.2021
(iv)	Defense: B/46937/Sigs 7(b)/2530	18.10.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भ (ii) और (iii) में दिए गए विवरणों के संबंध में बीएसएनएल के दूरसंचार केबलों और दक्षिण पश्चिम रेलवे के ब्लॉक और दूरसंचार सर्किटों पर क्रमशः कम आवृत्ति प्रेरण की गणना की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत बीएसएनएल और दक्षिण पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट के समानांतर दूरसंचार केबलों पर प्रेरित होने की संभावना वाले वोल्टेज क्रमशः अनुलग्नक- I और अनुलग्नक- II में संलग्न हैं। स्क्रीनिंग कारकों पर विचार कर लिया गया है। उपरोक्त संदर्भ (iv) द्वारा, रक्षा प्राधिकरण ने अनापत्ति प्रमाण पत्र (एनओसी) जारी किया है। (एक प्रति अनुलग्नक-III के रूप में संलग्न है)

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।

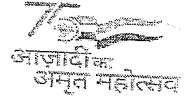
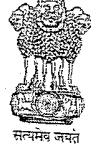
संलग्न: उपरोक्त अनुसार

राष्ट्रिय प्रताप सिंह
निदेशक 9.3.22

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032.	अनुलग्नक-I & अनुलग्नक-III
2.	ASTE/TELE/HQ	SWR O/o Principal Chief Signal & Telecom Engineer, 1st floor, West Block, Rail Soudha, Gadag Road, Hubli-580020.	अनुलग्नक-II
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009.	जानकारी हेतु

MLC



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Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : KNK-977 : 1241-243
PTCC proposal of 220 kV D/C transmission line on D/C towers from existing 220/66/11 kV KPTCL S/S at Chitradurga to proposed 220/25 kV M/s RVNL Railway Traction S/S at Madakaripura Village in Chitradurga Taluk and district: 3.903 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3231/5402-10	19.08.2021
(ii)	BSNL: SR-PTCC/SKT-3526/4	18.02.2022
(iii)	South Western Railway: SG/SWR/PTCC/F-3231/2211	27.09.2021
(iv)	Defense: B/46937/Sigs 7(b)/2530	18.10.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of South Western 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 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 above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

राजवेंद्र प्रताप सिंह
Director 9.3.22

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032.	Annexure-I & Annexure-III
2.	ASTE/TELE/HQ	SWR O/o Principal Chief Signal & Telecom Engineer, 1st floor, West Block, Rail Soudha, Gadag Road, Hubli-580020.	Annexure-II
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009.	Copy for information

CEA: FNK-977

(Annexure-I)

Case No. SKT-3526

SSA: Davangere

Name of the power line: PTCC proposal for construction of 220KV DC line on DC towers from existing 220/66/11KV KPTCL R/s at Chitradurga to the proposed 220/25KV of M/s RVNL Railway Traction SS at Madakaripura Village in Chitradurga Taluk and District

Length of Power Line 3.903 Kms

Average SR value : 26376 ohm-cms

25,000-22

Type of BSNL cable: PIJF

Sl.No.	Name of Telecom line	LOP in KMS	MC in Ohms	FC in Amps	IV in Volts
I (A)	Hosakallahalli Exchange Cables				
1	Exge to Challaker Main Road (A-A1)				
II(B)	Doddasiddavanahalli Exchange Cables				
1	Exge To J N Kote Road (B-B1)				
2	Exge To Ingaladal Road (B-B2)				
3	Exge To DS Halli Main Road (B-B3)				
III(C)	Chitradurga Main Telephone Exge Cables				
1	Exge To Malapanahatty Main Road (C-C1)				
2	Exge To Holalkere Main Road (C-C2)				
3	Exge To Matadakurabara Hatty Main Road (C-C3)				
4	Exge To Gopalpura Main Road (C-C4)				
5	Exge To Doddapete Main Road (C-C5)				
IV(D)	JCR RSU Telephone Exchange Cables				
1	Exge To Pillekerenahalli (D-D1)				
2	Exge To NH-4 Service Road (D-D2)				
3	Exge To Bank Colony (D-D3)				
V(E)	Jogimatti RSU Telephone Exge Cables				
1	Exge To Old NH-4 (E-E1)				
2	Exge To Challaker Gate Industrial Area (E-E2)				
3	Exge To Jogimatti road (E-E3)				
4	Exge To Fort Road (E-E4)				

IV less than 430V

TANUJ
 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-66

Annexure - III

Tele: 23015746

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

B/46837/Sigs 7(c)/2530

10 Oct 2021

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

**PTCC PROPOSAL FOR CONSTRUCTION OF 220KV DC LINE ON DC TOWERS
FROM EXISTING 220/65/11KV KPTCL R/S AT CHITRADURGA TO THE
PROPOSED 220/25KV OF M/S RVNL RAILWAY TRACTION SS AT
MADAKARIPURA VILLAGE IN CHITRADURGA TALUK AND DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-32311-5402-10 dt 19 Aug 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A. Rawal)
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 Jeeb Singh Marg
Katwaria Sara, New Delhi - 110016

for information

ANNEXURE - II**CEA Case No.: KNK- 977****Name of the Power Line:** 220 kV D/C transmission line on D/C tower from existing 220/66/11 kV KPTCL S/S at Chitradurga to proposed 220/25 kV M/s RVNL Railway Traction S/S at Madakaripura Village in Chitradurga Taluk and district.Map Scale : 1 cm = 500 m.
Route Length : 3.903 km
Soil Resistivity : 25,000 ohm-cm

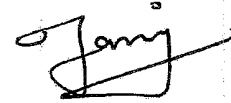
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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South Western Railway: SG/SWR/PTCC/F-3231/2211

Dated : 27.09.2021

Affected Blocks & Telecom Circuits Details

1.	HLV to CTA	Out of Parallelism			00
2.	CTA to BAHI	1.3	0.0093	7527	70
3.	BAHI to CHKE	Outside IV Consideration Zone			00



तनुज/TANUJ
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-68

तनुज/TANUJ
सहायक निदेशक-II/Asstt. Director-II
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नई दिल्ली/New Delhi-68