

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

CEA Case No. : KNK-937 : 170-172
PTCC proposal for 2nd circuit in the existing 220 kV S/C transmission line between existing 400/220 kV S/S at Guttur to existing 220/66/11 kV S/S at Neelagunda [additional circuit on M/C Towers from 400 kV S/S at Guttur to Tower No. 36 and up to Tower No. 121, further from Tower No. 121 to existing 220/66/11 kV S/S at Neelagunda] in Harapuzhal Taluk, Ballari District ; 31.313 km

Reference:

S. No.	Reference No.	Dated
(i)	KPTCL: CEF/SLEDC/PTCC/F-3036/21565-74	20.03.2020
(ii)	BSNL: SR-PTCC/SKT-2737	13.10.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3036/2032	19.11.2020
(iv)	Defence: E/46937/Sigs 7(b)/2040	18.09.2020

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.

Rajivendra Prasad Singh
21/02/22

Director

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.	ASIE/TEU/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



वास्तविक
असत महोत्सव

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Power Communication Development Division

के.वि.प्रा. केस नं. : KNK-837: /170-172

पी.टी.सी.सी. प्रस्ताव 2nd circuit in the existing 220 kV S/C transmission line between existing 400/220 kV S/S at Guttur to existing 220/66/11 kV S/S at Neelagunda [additional circuit on M/C Towers from 400 kV S/S at Guttur to Tower No. 36 and up to Tower No. 121, further from Tower No. 121 to existing 220/66/11 kV S/S at Neelagunda] in Harapanahalli Taluk, Ballari District : 31.313 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CDR/SLDC/PTCC/F-3036/21565-74	20.03.2020
(ii)	BSNL, SR-PTCC/SKT-2737	13.10.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3036/2032	19.11.2020
(iv)	Defence: S/46937/Sigs 7(b)/2040	18.09.2020

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 श्रेणियों 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 अनापति प्रमाण पत्र (एनओसी) जारी किया है। (एल प्रति अनुलग्नक-III के रूप में संलग्न है)

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

संलग्न: उपरोक्त अनुसार

निदेशक 21.02.22

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-II
2.	ASTR/TRLB/HQ	SWR O/o Principal Chief Signal & Telecom Engineer, 1st floor, West Block, Raj 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

CEA: FNR-939

(Annexure - I)

Case No. SRT7797		SSA: Davangere			
Name of the power line: PTEC Proposal for Proposed 2nd circuit in the existing 220KV SC line between existing 400/220KV SS at Guttur to existing 220/66/11KV SS at Neelagunda [Additional circuit on MC Towers from 400KV SS at Guttur to Tower No.35, and up to Tower no.121, further from Tower No. 121 to existing 220/66/11KV SS at Neelagunda] in Harapanahalli Taluk, Ballari District.					
Length of Power Line		31.345 Kms			
Average SR value: 28691.35 ohm-cms		Type of BSNL cable: PLIF			
Sl.No.	Name of Telecom line	LOP in Kms	MC in Ohms	FC in Amps	IV in Volts
I(A)	Harihara Telephone Exchange Cables				
1	Exge to PE Road (A-A1)				
2	Exge to Kalidasa Nagara (A-B-B2)				
3	Exge to Shimoga Circle (A-A2)				
4	Exge to AK colony (A-A2-A3)				
5	Exge to Industrial Estate (A-A2-A3-A4)				
6	Exge to Guttur colony (A-A2-A3-A5)				
7	Exge to Bridge, Kumarapatnam Road (A-A2-A6)				
8	Exge to Vidhya Colony (A-A2-A6-A7)				
9	Exge to Kumarapatnam (A-A2-A6-A8)				
10	Exge to Shimoga Circle (A-A9)				
11	Exge to Vidhyanagara, Temple Rd (A-A9-A10)				IV less than 430V
12	Exge to Vidhyanagara, Govt. Hospital Road (A-A9-A10-A11)				
II(G)	Avaragolla telephone Exchange Cables				
1	Exge to Kakkaragolla Village (G-G1)				
III(D)	Doddabathi Telephone Exchange Cables				
1	Exge to Forensic Lab (D-D1)				
2	Exge to Doddabathi Main CC Road (D-D2)				
3	Exge to Doddabathi Village (D-D3)				
IV(S)	Sarathi Telephone Exchange Cables				
1	Exge to Corp Bank (S-S1)				
V(K)	Kondaji Telephone Exchange Cables				
1	Exge to SBI Bank, Kondaji (K-K1)				

(1/2)

Signature
 11/07/2011
 PTEC Proposal - Davangere District
 Ballari Taluk
 Dept. of Public Utility of Power

ANNEXURE - II

CEA Case No.: KNK- 937

Name of the Power Line: 2nd circuit in the existing 220 kV S/C transmission line between existing 400/220 kV S/S at Guttur to existing 220/66/11 kV S/S at Neelagunda [additional circuit on M/C Towers from 400 kV S/S at Guttur to Tower No. 36 and up to Tower No. 121, further from Tower No. 121 to existing 220/66/11 kV S/S at Neelagunda] in Harapanahalli Taluk, Ballari District.

Map Scale : 1 cm = 500 m
Route Length : 31.313 km
Soil Resistivity : 30,000 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-3036/2032

Dated: 19.11.2020

Affected Blocks & Telecom Circuits Details

1	DVG to AVC	3.7	0.0013	8064	11
2	AVC to HRR	2.3	0.0008	9193	08
3	HRR to KMPS	Out of Parallelism			00
4	KMPS to CLI	Out of Parallelism			00

Director,
South Western Railway, Bangalore
Railway Board, Bangalore
P.O. No. 1000/10000 of Power
Supply Deptt./Govt. of India
Bangalore-56

Tele : 23019748

RNK-937
(Annexure-III)

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


B/46937/Sigs 7(b)/2040

18 Sep 2020

Karnataka Power Transmission Corporation Limited
Office of the Chief Engineer Electricity,
State Load Despatch Centre,
28, R.C. Cross Road,
Bangalore - 560 008

**PROPOSED 2ND CIRCUIT IN THE EXISTING 220KV SC LINE BETWEEN EXISTING
400/220KV SS AT GUTTUR TO EXISTING 220/66/11KV SS AT NEELAGUNDA IN
HARAPANAPALLI TALUK, BALLARI DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-3036/-21585-74 dt 20 Mar 2020 (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)
Maj
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
Kadwaria Sarai, New Delhi - 110016

The DFT(PTCC), Northern Zone
O/c PGM (North), QA & Inspection Circle,
D-Tax Building, Janpath
New Delhi-110001

for information