



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-935 / 46-48
PTCC proposal of 220 kV 2 nd circuit from existing 220/66 kV S/S at Yarandahalli (on the existing corridor of 220 kV Somanahalli to Yarandahalli S/C line) up to Location No. 11 of existing 220 kV Somanahalli to Devarabisanahalli (Vikas Tech Park) D/C line (ckt-1) & also connecting the Somanahalli to Yarandahalli existing line to ckt-2 for providing independent supply from Somanahalli to Yarandahalli by disconnecting supply towards Devarabisanahalli (Vikas Tech Park) S/S in Bangalore Urban District: 6.497 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3019/16965-73	08.01.2020
(ii)	BSNL: SR-PTCC/SKT-2690/4	12.01.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3019/2017	07.02.2020
(iv)	Defense: B/46937/Sigs 7(b)/1969	02.03.2020

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 Annex-III).

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

Encl: As above.

राजेश्वर प्रसाद सिंह
28.1.22
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.	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

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आजादीक
अमृत महोत्सव

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Government of India
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Power Communication Development Division

के.वि.प्रा. केस सं. : KNK-935: / 46-48
पी.टी.सी.सी. प्रस्ताव 220 kV 2 nd circuit from existing 220/66 kV S/S at Yarandahalli (on the existing corridor of 220 kV Somanahalli to Yarandahalli S/C line) up to Location No. 11 of existing 220 kV Somanahalli to Devarabisanahalli (Vikas Tech Park) D/C line (ckt-1) & also connecting the Somanahalli to Yarandahalli existing line to ckt-2 for providing independent supply from Somanahalli to Yarandahalli by disconnecting supply towards Devarabisanahalli (Vikas Tech Park) S/S in Bangalore Urban District: 6.497 km

क्रमांक	सन्दर्भ सं.	दिनांक
(v)	KPTCL: CBE/SLDC/PTCC/F-3019/16965-73	08.01.2020
(vi)	BSNL: SR-PTCC/SKT-2690/4	12.01.2021
(vii)	South Western Railway: SG/SWR/PTCC/F-3019/2017	07.02.2020
(viii)	Defense: B/46937/Sigs 7(b)/1969	02.03.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भों (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: ऊपरोक्त अनुसार

श्रीवेंकट सुब्रह्मण्यम्
निदेशक
28.1.22

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

अनुलग्नक-I & अनुलग्नक-III

अनुलग्नक-II

जानकारी हेतु

FNK-935

(Annexure-I)

SF-2690/192

Case No.SKT-2690/F3019

SSA: Bengaluru

Name of the power line: PTCC Proposal for 220KV 2nd Circuit from existing 220/66 KV SS at Yarandanahalli [on the existing corridor of 220KV Somanahalli-Yarandanahalli SC Line] up to location No.11 of 220KV Somanahalli-Devarabisanahalli DC line and connecting Somanahalli-Yarandanahalli line for providing independent supply from Somanahalli to Yarandanahalli by disconnecting supply towards Devarabisanahalli SS in Bengaluru Urban District.

Length:

6.497

Kms

Average SR value : 26887.75 Ohms-cms

Type of BSNL cables: PLJF

Sl.No.	Name of Telecom line	LOP In KMS	MC In Ohms	FC In Amps	IV In Volts
I JIG					
Jigani Exchange					
1	Exge to Bandenasandra (JIG-J11)				
2	Exge to Koppa (JIG-J12)				
3	Exge to Harapanahalli (JIG-J13)				
4	Exge to Hulinangala (JIG-J14)				
II APOTEX					
Apotex Exchange					
1	Exge to Srirampura (APOTEX-AP1)				
2	Exge to Yelmara Mandir (APOTEX-AP2)				
III EC					
Electronics City Exchange					
1	Exge to SBI (EC-EC1)				
2	Exge to Chikka Thogur (EC-EC2)				
3	Exge to Chikka Thogur (EC-EC3)				

IV less than 450V

SH-2690/29-2

IV CKNR		Chennakeshvanagar Exchange							
1	Exge to Singasandra (CKNR-CN1)								
2	Exge to Novel (CKNR-CN2)								
3	Exge to Royal County (CKNR-CN3)								
4	Exge to Chikka Thogur (CKNR-CN4)								
5	Exge to Bharat Shell (CKNR-CN5)								
6	Exge to Central Jail (CKNR-CN6)								
V HBG		Hebbagudi Exchange							
1	Exge to KIADB (HBG-HB1)								
2	Exge to Chandapur (HBG-HB2)								

IV JRS from 430V



राष्ट्रीय विद्युत निदेशक-11
केन्द्रीय विद्युत निदेशक-11 / Director-II
विद्युत मंत्रालय / Ministry of Power
नई दिल्ली / New Delhi-06

राष्ट्रीय विद्युत निदेशक-11
केन्द्रीय विद्युत निदेशक-11 / Asstt. Director-II
विद्युत मंत्रालय / Ministry of Power
नई दिल्ली / New Delhi-06

ANNEXURE - II

CEA Case No.: KNK-935 Name of the Power Line: 220 kV 2 nd circuit from existing 220/66 kV S/S at Yarandahalli (on the existing corridor of 220 kV Somanahalli to Yarandahalli S/C line) up to Location No. 11 of existing 220 kV Somanahalli to Devarabisanahalli (Vikas Tech Park) D/C line (ckt-1) & also connecting the Somanahalli to Yarandahalli existing line to ckt-2 for providing independent supply from Somanahalli to Yarandahalli by disconnecting supply towards Devarabisanahalli (Vikas Tech Park) S/S in Bangalore Urban District.	Map Scale : 1 cm = 500 m. Route Length : 6.497 km Soil Resistivity : 25,000 ohm-cm
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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: Ref No: SG/SWR/PTCC/F-3019/2017		Dated: 07.02.2020			
Affected Blocks & Telecom Circuits Details					
1	Karmelaram to Heelalige	1.1	0.0002	9899	012
2	Anekal Road to Heelalige	Out of Parallelism			00

Jany

सहायक निदेशक/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

Tele : 23019746

(Annexure-III)
KNK-935

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


B/46937/Sigs 7(b)/1969

02 Mar 2020

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

PROPOSED FOR CONSTRUCTION OF 220KV 2ND CIRCUIT FROM EXISTING 220/66KV SS AT YARANDANAHALLI UPTO LOCATION NO 11 OF EXISTING 220KV SOMANAHALLI-DEVARABISANAHALLI DC LINE (CKT-1) & ALSO CONNECTING THE SOMANAHALLI-YARANDANAHALLI EXISTING LINE TO CKT-II FOR PROVIDING INDEPENDENT SUPPLY FROM SOMANAHALLI TO YARANDANAHALLI BY DISCONNECTING SUPPLY TOWARDS DEVARABISANAHALLI SS IN BENGALURU URBAN DISTRICT

1. Ref your letter No CEE/SLDC/ PTCC/F-3019/-16965-73 dt 08 Jan 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
Katwaria Sarai, New Delhi - 110016

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji-Nagar, New Delhi-110023

for information

2-323

28/1