



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

Case No. : KNK-920 :	07.23.02-21
PTCC proposal of 220 kV S/C UG cable from proposed 220/66 kV Kumbalagodu S/S to existing 220/66 kV S/S at Vrushabhavathi Valley, Bengaluru.	

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-2910/1031-40	06.05.2019
(ii)	BSNL: SR-PTCC/SKT-2440/05	16.09.2020
(iii)	South Western Railway: SG/SWR/PTCC/F-2910/1902/14	03.07.2019
(iv)	Defense: B/46937/Sigs 7(b)/1597	24.06.2019

The PTCC proposal submitted vide ref. (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.

Signature Not Verified
 Digitally signed by RAGHUPENDRA PRATAP SINGH
 Date: 2021.02.23 14:05:48 IST

Director

To,

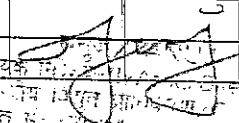
1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	Annexure-I & Annexure-III
2.	ASTE/TELE/HQ	SWR O/o Principal Chief Signal & Telecom Engineer, 1st floor, West Block, Rail Soudha, Gadag Road, Hubli-580020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

MIC

Annexure - I

Case No. F2910 /SKT-2440		SSA: Bengaluru			
Name of the power line: Proposal of 220 KV 1200 Sq.mm Single Core Single Circuit UG Cable from proposed 220/66 KV SS at Kumbalagodu to the Existing 220/66 KV SS at Vrushabhavathi Valley in Bengaluru Urban District.					
Length:	12.265 Kms				
Average SR value : $25,000 \frac{\Omega \cdot \text{cm}}{\text{km}}$ 25254.57 Ohms-cms			Type of BSNL cable: PIJF		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I NGB	NAGARABHAVI EXCHANGE				
1	Exge to Kottigepalya (NG-NG1)				
2	Exge to Magadi Road (NG-NG2)				
3	Exge to Ullal cross (NG-NG3)				
4	Exge to Nagarabhavi 2nd cross (NG-NG4)				
II ANR	ANJANAGER EXCHANGE				
1	Exge to Beggar Colony (AN-AN1)				
2	Exge to Gollahalli (AN-AN2)				
3	Exge to Ullal (AN-AN3)				
III KEN	KENGERI EXCHANGE				
1	Exge to Babasapalya (KE-KE1)				
2	Exge to Kommaghatta (KE-KE2)				
3	Exge to Mariyappanapalya (KE-KE3)				
4	Exge to Uttarahalli Road (KE-KE4)				
IV KBG	KUMBALAGOD EXCHANGE				
1	Exge to Babasapalya (KB-KB1)				
2	Exge to Lakkanapalya (KB-KB2)				
3	Exge to Hejjala (KB-KB3)				
V CLO	CHANDRA L/O EXCHANGE				
1	Exge to BTS Garage (CL-CL1)				
2	Exge to Canara Bank (CL-CL2)				
3	Exge to Nagarabhavi Circle (CL-CL3)				
VI JB	JNANABHARATHI EXCHANGE				
1	Exge to Jnanabharath IRS (JB-JB1)				
2	Exge to Nagadevanahalli (JB-JB2)				
VII RMH	RAMOHALLI EXCHANGE				
1	Exge to Malagondanahalli (RM-RM1)				
2	Exge to Bimanakuppe (RM-RM2)				
VIII EGL	EAGLETON EXCHANGE				
1	Exge to Bimasahalli (EG-EG1)				
2	Exge to Barendoddi (EG-EG2)				
IX CHN	CHUNCHUNA EXCHANGE				

IV
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 ಕೆ.ಆರ್.ಪೇಟೆ ವಿಭಾಗ
 ವಿದ್ಯುತು ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ
 ಮಂಡಳಿ, ಬೆಂಗಳೂರು
 ನವೆಂಬರ್ 2018

1	Exge to Kurabarapalya (CH-CH1)		
2	Exge to Ajjanahalli (CH-CH2)		
3	Exge to D-Alladamarappa Palya (CH-CH3)		
X RRN	RAJARAJESHWARI NAGER EXCHANGE		
1	Exge to Pattanagere (RR-RR1)		
2	Exge to Pantherpalya (RR-RR2)		
3	Exge to Bangarappanager (RR-RR3)		
4	Exge to Utterhalli (RR-RR4)		
5	Exge to Srinivasa (RR-RR5)		
XI HSK	HOSAKEREHALLI EXCHANGE		
1	Exge to PES College (HS-HS1)		
2	Exge to Girinager (HS-HS2)		
3	Exge to BSK 3rd Stage (HS-HS3)		
4	Exge to HSK Village (HS-HS4)		
XII TGP	TALAGHATTAPURA EXCHANGE		
1	Exge to Doddakallasandra (TP-TP1)		
2	Exge to Agara cross (TP-TP2)		
XIII CMK	CHENNAMMAKERE EXCHANGE		
1	Exge to Bank Colony (CM-CM1)		
2	Exge to Ittamiadu (CM-CM2)		
3	Exge to Padmanabhanagar (CM-CM3)		
4	Exge to Ramaraol/o (CM-CM4)		
XIV PNB	PADMANABHANAGER EXCHANGE		
1	Exge to Uttarahalli Rd (PN-PN1)		
2	Exge to Gaundanapalya (PN-PN2)		
3	Exge to BSK 2nd stage (PN-PN3)		
XV KRS	KARESANDRA EXCHANGE		
1	Exge to Padmanabhanager (KR-KR1)		
2	Exge to Jayanager 7th Bk (KR-KR2)		
3	Exge to Banashankari (KR-KR3)		
4	Exge to Kaderanahalli (KR-KR4)		
XVI KSLO	KUMARASWAMY L/O EXCHANGE		
1	Exge to Subramanyapura (KS-KS1)		
2	Exge to Vasanthpura (KS-KS2)		
3	Exge to Konankunte (KS-KS3)		
XVII JAY	JAYANAGER EXCHANGE		
1	Exge to East End C Main (JN-JN1)		
2	Exge to Raghavendra Temple (JN-JN2)		
3	Exge to Kanakapura Ring Road (JN-JN3)		
4	Exge to SBI Colony KNK Rd (JN-JN4)		

IV

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THAN

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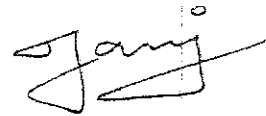
Jay

रतुज/TANUJ
 सहायक निदेशक-II/Asstt. Dir. for-II
 केंद्रिय शिक्षा प्राधिकरण/C.E.A.
 विद्यापीठ, मुंबई, Maharashtra
 शाखा, मुंबई-400 004
 तार. 022-26112000

ANNEXURE - II

Case No.: KNK- 920					
Name of the Power Line: 220 kV S/C UG cable from proposed 220/66 kV Kumbalagodu S/S to existing 220/66 kV S/S at Vrushabhavathi Valley, Bengaluru.		Map Scale : 1 cm = 500 m. Route Length : 12.265 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)

SOUTH WESTERN RAILWAY					
Ref. No: SG/SWR/PTCC/F-2910/1902 /14			DATED: 03-07-2019		
<u>Affected Blocks & Telecom Circuits Details</u>					
1	NYH to KGI	5.4	0.0004	5416	3
2	KGI to HJL	6.1	0.0004	5833	3



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

Annexure-III KWK-920

Tele : 23019746

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


B/46937/Sigs 7(b)/1597

24 Jun 2019

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

**PROPOSED 220KV 1200SQMM SINGLE CORE SINGLE CIRCUIT UG CABLE FROM
PROPOSED 220/66KV SS AT KUMBALAGODU TO THE EXISTING 220/66KV SS AT
VRUSHABHAVATHI VALLEY IN BENGALURU URBAN DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-2910/-1031-40 dt 06 May 2019 (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

for information.