



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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CEA Case No. : KNK-946 : / 69 - 71
PTCC proposal of 220 kV D/C line partly by MCMV Towers on existing corridor of 66 kV Anchepalya to Yadiyur S/C line from existing 220/66 kV S/S at Anchepalya to Loc No. 75 and D/C line on D/C Towers from Loc No. 75 to proposed 220/66 kV Karadahalli (Nagamangala) S/S in Nagamangala Taluk, Mandya District: 50.401 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3082/4947-56	14.08.2020
(ii)	BSNL: SR-PTCC/SKT-2802/4	02.08.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3082/2070	19.10.2020
(iv)	Defense: B/46937/Sigs 7(b)/2118	26.10.2020

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.

राजवेंद्र प्रसाद सिंह  
31.1.22  
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

CEA : KNK-946

(Annexure-I)

Case No. SKT2802		SSA: Tumkur			
Name of the power line: PTCC Proposal for Proposed 220KV DC line partly by MCMV Towers on existing corridor of 66KV Anchepalya-Yediyur SC line from the existing 220/66KV SS at Anchepalya to Loc.No.75 and DC Line on DC Tower from Loc.No.75 to proposed 220/66/11KV SS at Karadahalli (Nagamangala) in Nagamangala Taluk Mandya District					
Length of Power Line		50.401 Kms			
Average SR value : 25029.42 ohm-cms					
SI No.		Name of Telecom line		Type of BSNL cable: PIJF	
				MC in Ohms	FC in Amps
I (K)		Kunigal RSU Telephone Exchange Cables		IV in Volts	
1		Exge towards Anchepalya (K-K1)			
2		Exge towards Kottagere (K-K2)			
3		Exge towards Alappanagudde (K-K3)			
4		Exge towards Agrahara (K-K4)			
5		Exge towards Railway Station (K-K5)			
6		Exge towards Gavimata (K-K6)			
7		Exge towards Gavimata (K-K7)			
8		Exge towards Housing Board (K-K8)			
9		Exge towards Doddapete (K-K9)			
II (A)		Alappanagudde Exchange Cables			
1		Exge towards Kallegowdanapalya (A-A1)			
2		Exge towards Nademavinapura (A-A2)			

IV less than 430V

(1/2)

महानगर विद्युत निगम/Ministry of Power  
 नया दिल्ली/New Delhi-69

Case No. SKT2802

SSA: Mandya

Name of the power line: PTCC Proposal for Proposed 220KV DC line partly by MCMV Towers on existing corridor of 66KV Anchepalya-Yedyur SC line from the existing 220/66KV SS at Anchepalya to Loc No 75 and DC Line on DC Tower from Loc No.75 to proposed 220/66/11KV SS at Karadahalli (Nagamangala) in Nagamangala Taluk Mandya District.

Length of Power Line 50.401 Kms

Average SR value: 25029.42 ohm-cms

Sl.No.	Name of Telecom line	LOP in KMs	Type of BSNL cable: PIJE		
			MG in Ohms	FC in Amps	IV in Volts
III (A1)	Nagamangala Telephone Exchange Cables				
1	Exge to Palagrahara Pillar (A1-A2)				
2	Exge to Library Pillar (A1-A3)				
3	Exge to Mandya Circle (A1-A3-A4)				
4	Exge to Temple (A1-A3-A4-A5)				
5	Exge to KEB Pillar (A1-A3-A6)				
6	Exge to PWD (A1-A3-A6-A7)				
7	Exge to Upperahalli (A1-A3-A6-A8)				
8	Exge to BGS College (A1-A3-A6-A9)				
IV(B1)	Brahmadevarahalli Exchange Cables				
1	Exge to Manahalli Pillar (B1-B2)				
V(C1)	Devalapura Exchange Cables				
1	Exge to Post Office (C1-C2)				
2	Exge to MDCC Pillar (C1-C3)				
VI (D1)	Mylarpatra Telephone Exchange cables				
1	Exge to Govt. College (D1-D2)				

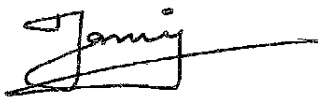
IV less than 430V

(2/2)

*[Signature]*  
 Asst. Director  
 केंद्र, विद्युत प्राधिकरण/ C.E.A.  
 बिजुत विभाग / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-60

<b>CEA Case No.: KNK- 946</b> <b>Name of the Power Line:</b> 220 kV D/C line partly by MCMV Towers on existing corridor of 66 kV Anchepalya to Yadiyur S/C line from existing 220/66 kV S/S at Anchepalya to Loc No. 75 and D/C line on D/C Towers from Loc No. 75 to proposed 220/66 kV Karadahalli (Nagamangala) S/S in Nagamangala Taluk, Mandya District.		<b>ANNEXURE - II</b>  Map Scale : 1 cm = 500 m. Route Length : 50.401 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: SG/SWR/PTCC/F-3082/2070		Dated : 19.10.2020			
<u>Affected Blocks &amp; Telecom Circuits Details</u>					
1	Solur to Thippasandra	Out of Parallelism			00
2	Thippasandra to Kunigal	6.3	0.0079	8886	70
3	Kunigal to Yedyur	11.2	0.0022	8663	19
4	Yedyur to BG Nagar	Outside IV Consideration Zone			00

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