



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-943 :  
PTCC proposal for LILO of 220 kV D/C transmission line from 220 kV Haveri to Guttur (circuit-2) at existing 220/110/33/11 kV R/S Ranebennur in Ranebennur Taluk, Haveri District [on the existing corridor of 220 kV Shiralkoppa to Ranebennur LILO line] : 4.885 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3086/5413-21	25.08.2020
(ii)	BSNL: SR-PTCC/SKT-2805/4	10.12.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3086/2075	19.11.2020
(iv)	Defense: B/46937/Sigs 7(b)/2147	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 Annexure-III).

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

**Encl.:** As above.

*Prakash Prasad 845*  
04.05.22

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



आजादी का  
अमृत महोत्सव

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-943 :  
पी.टी.सी.सी. प्रस्ताव LILO of 220 kV D/C transmission line from 220 kV Haveri to Guttur (circuit-2) at existing 220/110/33/11 kV R/S Ranebennur in Ranebennur Taluk, Haveri District [on the existing corridor of 220 kV Shiralkoppa to Ranebennur LILO line] : 4.885 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CEE/SLDC/PTCC/F-3086/5413-21	25.08.2020
(ii)	BSNL: SR-PTCC/SKT-2805/4	10.12.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3086/2075	19.11.2020
(iv)	Defense: B/46937/Sigs 7(b)/2147	26.10.2020

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

प्रमाणित

निदेशक 04.05.22

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

( Annexure - I / अनुलग्नक - I )

KNK-943

Case No. SKT-2805		SSA: Hubli			
Name of the power line: Proposed 220KV LILO line on MC Towers on the existing 220KV Shiralakoppa-Ranebennur LILO line corridor from existing 220KV Haveri-Guttur DC line [Ckt-II] to the existing 220/110/33/11KV RS at Ranebennur in Ranebennur Taluk Haveri District.					
Length of Power Line		4.885 Kms			
Average SR value : 24753.67 ohm-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 (R)	Ranebennur Exchange Cables				
1	Exge to Harihar Road (R-R1)				
2	Exge to Halageri Road (R-R2)				
3	Exge to Haaveri Road (R-R3)				
4	Exge to Devargudda Road (R-R4)				
5	Exge to Station Road (R-R5)				
6	Exge to Medleri Road (R-R6)				
II (H)	Halageri Telephone Exchange Cables				
1	Exge to KOD Road (H-H1)				
2	Exge to Tumminakatti Road (H-H2)				
3	Exge to Itagi Road (H-H3)				
4	Exge to Ranebennur Road (H-H4)				
III (J)	Joyisarahalli Telephone Exchange Cables				
1	Exge to Sunkabidari Road (J-J1)				
2	Exge to Ukkunda Road (J-J2)				
3	Exge to Ranebennur Road (J-J3)				
IV (I)	Itagi Telephone Exchange Cables				
1	Exge to Chicken Factory (I-I1)				
2	Exge to Kamadod Village (I-I2)				
3	Exge to Magod Road (I-I3)				

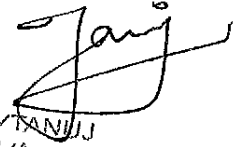
IV less than 430V

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-66

**ANNEXURE - II / अनुलग्नक-II**

<b>CEA Case No.: KNK- 943</b> <b>Name of the Power Line:</b> LILO of 220 kV D/C transmission line from 220 kV Haveri to Guttur (circuit-2) at existing 220/110/33/11 kV R/S Ranebennur in Ranebennur Taluk, Haveri District [on the existing corridor of 220 kV Shiralkoppa to Ranebennur LILO line].			Map Scale : 1 cm = 500 m. Route Length : 4.885 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-3086/2075			Dated : 19.11.2020		
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1.	CLI to RNR	Out of Parallelism			00
2.	RNR to DAD	0.9	0.0007	6700	05

  
 तनुज / TANUJ  
 सहायक निदेशक-II / Asst. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-68

Tele : 23019746

(Annexure-III / 37 नल ० नक-III)

KNK-943  
Directorate General of Signals  
Signals - 7  
General Staff Branch  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2147

26 Oct 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 220KV LILO LINE ON MC TOWERS ON THE EXISTING 220KV SHIRALAKOPPA-RANEBENNUR LILO LINE CORRIDOR FROM EXISTING 220KV HAVERI-GUTTUR DC LINE [CKT-II] TO THE EXISTING 220/110/33/11KV RS AT RANEBENNUR IN RANEBENNUR TALUK HAVERI DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-3086/-5413-21 dt 25 Aug 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

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

- for information