



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-932 : / 49-51
PTCC proposal of 200 kV Double LILO line (partially OH on MC towers and partially UG cable) from existing 220 kV Hoody to Manyatha Tech Park DC line to proposed 400/220 kV Hardware Park S/S (U/C), Devanahalli [by constructing 220 kV Double LILO line on MC towers from LILO T.No. 86 to T.No. 1 (on existing corridor of 66 kV Peenya-Vidyanagar-Hoskote 66 kV DC line)] in Bangalore Rural District: 17.073 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3012/15824/33	24.12.2019
(ii)	BSNL: SR-PTCC/SKT-2681/4	18.05.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3012/2011	07.02.2020
(iv)	Defense: B/46937/Sigs 7(b)/1944	17.02.2020

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 सुताप निर
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



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-932:
पी.टी.सी.सी. प्रस्ताव 200 kV Double LILO line (partially OH on MC towers and partially UG cable) from existing 220 kV Hoody to Manyatha Tech Park DC line to proposed 400/220 kV Hardware Park S/S (U/C), Devanahalli [by constructing 220 kV Double LILO line on MC towers from LILO T.No. 86 to T.No. 1 (on existing corridor of 66 kV Peenya-Vidyanagar-Hoskote 66 kV DC line)] in Bangalore Rural District: 17.073 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CEE/SLDC/PTCC/F-3012/15824/33	24.12.2019
(ii)	BSNL: SR-PTCC/SKT-2681/4	18.05.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3012/2011	07.02.2020
(iv)	Defense: B/46937/Sigs 7(b)/1944	17.02.2020

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: उपरोक्त अनुसार

राधेबन्धु ड्राफ्टिंग
28.1.22
निदेशक

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

CEA: KNR-932

(Annexure-I)

Case No SKT-2681/F3012

SSA: Bengaluru

Name of the power line: PTCC proposal for construction of 220KV Double LLO line [partially OH on MC Towers and Partially UG Cable] from existing 220KV Hoody-Manyatha Teck Park DC Line to proposed 400/220KV Hard Ware Park SS [Under Construction] at Devanahalli [By constructing 220KV Double LLO line on MC Towers from LLO T.No.86 to T.No.1 on the existing corridor of 66KV Peenya-Vidyanagar-Hoskote DC line] in Bengaluru Rural District.

Length: 17.073 Kms

Average SR value : 32934.78 Ohms-cms
25,000.00

Type of BSNL cable: PUF

SL.No.	Name of Telecom line	LOP In KMS	MC In Ohms	FC In Amps	IV In Volts
I CKI					
CHIKKALALA EXGE cables (CKI)					
1	Exge to Vidyanagar cross (CKI-CK1)				
2	Exge to Betahalasur (CKI-CK2)				
3	Exge to Sadahalli (CKI-CK3)				
4	Exge to Doddajala (CKI-CK4)				
II BGR					
BAGAIUR EXGE cables (BGR)					
1	Exge to Maralakunte (BGR-BG1)				
2	Exge to Chokkanahalli (BGR-BG2)				
3	Exge to Miltaganahalli (BGR-BG3)				
4	Exge to Rasakpalya (BGR-BG4)				
III BDG					
BUDIGERE EXGE cables (BDG)					
1	Exge to Hiltarhalli (BDG-BD1)				
2	Exge to Manchoppanahalli (BDG-BD2)				
3	Exge to Choudappanahalli (BDG-BD3)				

IV Loss from 430V

[Signature]
 Director (Program-II)
 Director, Field Directorate/C.E.A.
 Ministry of Power
 Govt. of India
 New Delhi-110002

(112)

Page 2 - SFT 2681/F3012

IV	HOR	HORAMAVU EXGE cables (HOR)					
	1	Exge to Babusapalya (HOR-HO1)					
	2	Exge to Horamavu Village (HOR-HO2)					
	3	Exge to Kalkere (HOR-HO3)					
	4	Exge to Horamavu E4 (HOR-HO4)					
V	KNR	KOTHANUR EXGE cables (KNR)					
	1	Exge to Channasandra (KNR-KN1)					
	2	Exge to Horamau (KNR-KN2)					
	3	Exge to Kamanahalli (KNR-KN3)					
	4	Exge to Narayanpura (KNR-KN4)					
VI	THN	THANISANDRA EXGE cables (THN)					
	1	Exge to Nagavara Side (THN-TH1)					
	2	Exge to Palya (THN-TH2)					
	3	Exge to YNK Side (THN-TH3)					
	4	Exge to Telecom I/O (THN-TH4)					
VII	YNK	VELAHANKA EXGE cables (YNK)					
	1	Exge to Judicial I/O (YNK-YN1)					
	2	Exge to Maruthnager RSU (YNK-YN2)					
	3	Exge to Attur I/O (YNK-YN3)					
	4	Exge to Ananthapura (YNK-YN4)					
	5	Exge to Heritage DLC (YNK-YN5)					

IV Yes from 430V



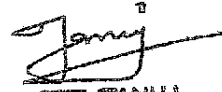
ಶ್ರೀಮತಿ /TANUJ
 ಸಹಾಯಕ ನಿರ್ದೇಶಕಿ-II/Asstt. Director-II
 ಸರ್ಕಾರಿ ನಿರ್ದೇಶನಾಲಯ/C.E.A.
 ಸರ್ಕಾರಿ ನಿರ್ದೇಶನಾಲಯ/Ministry of Power
 ಸರ್ಕಾರಿ ನಿರ್ದೇಶನಾಲಯ/Govt. of India
 ಸರ್ಕಾರಿ ನಿರ್ದೇಶನಾಲಯ/New Delhi-66

(2/2)

ANNEXURE - II

CEA Case No.: KNK- 932 Name of the Power Line: 200 kV Double LILO line (partially OH on MC towers and partially UG cable) from existing 220 kV Hoody to Manyatha Tech Park DC line to proposed 400/220 kV Hardware Park S/S (U/C), Devanahalli [by constructing 220 kV Double LILO line on MC towers from LILO T.No. 86 to T.No. 1 (on existing corridor of 66 kV Peenya-Vidyanagar-Hoskote 66 kV DC line)] in Bangalore Rural District.		Map Scale : 1 cm = 500 m. Route Length : 17.073 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/E-3012/2011		Dated: 07.02.2020			
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Lottegollahalli to Yelahanka Junction	Out of Parallelism			00
2	Yelahanka Junction to Rajankunti	0.8	0.0002	7648	02
3	Yelahanka Junction to Devanahalli	4.1	0.0001	9889	01
4	Yelahanka Junction to Channasandra	5.6	0.0013	9892	13
5	Krishnarajapuram to Whitefield	Out of Parallelism			00
6	Channasandra to Baiyyappanhalli	Out of Parallelism			00
7	Baiyyappanhalli to Krishnarajapuram	Out of Parallelism			00
8	Baiyyappanhalli to Bengaluru Cant.	Out of Parallelism			00
9	Bengaluru Cant. To KSR Bengaluru	Out of Parallelism			00
10	Lottegollahalli to Hebbal	Out of Parallelism			00
11	Hebbal to Banaswadi	Out of Parallelism			00
12	Banaswadi to Baiyyappanhalli	Out of Parallelism			00
13	Baiyyappanhalli to Karmelaram	Out of Parallelism			00


 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

23019746

KNK-932
(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)/1944

17 Feb 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 DOUBLE LILO LINE FROM EXISTING 220KV
HOODY-MANYATHA TECK PARK DC LINE TO PROPOSED 400/220KV HARD WARE PARK
SS AT DEVANAHALLI IN BENGALURU URBAN DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-3012/-15824-33 dt 24 Dec 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

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

for information