

I/26144/2023



सत्यमेव जयते



ONE EARTH - ONE FAMILY - ONE FUTURE

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-1014		
PTCC approval for regularization of 220 kV S/C line (on D/C towers and partly M/C towers) from existing 220/66 kV substation Chitradurga to existing 400/220 kV PGCIL substation Hiriyur (Beerelahalli) (45.687 km) – regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3482/6361-69	03.11.2022
(ii)	KPTCL: CEE/SLDC/PTCC/CEA/F-3481 & F-3482/8031-32	29.12.2022
(iii)	KPTCL: Email	30.12.2022
(iv)	South Western Railway: SG/SWR/PTCC/F-3482/2452	15.12.2022
(v)	This Office: Letter of even no.	30.12.2022
(vi)	BSNL: SR-PTCC/SKT 4375/06	29.12.2022
(vii)	Defense: B/46937/Sigs 7(b)/3109	03.01.2023

Further, to this office letter cited at S. No. (v) above, the LF induction on telecom cables of BSNL with respect to details furnished vide above reference (vi) have been computed. The voltage likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. IV calculation in respect of block & telecom circuits of South Western Railway furnished vide reference (iv) above, have been issued vide reference (v). Vide reference (vii) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-II).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl:- As above.

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, R.C. Cross Road, Bangalore - 560009	Copy for information

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ANNEXURE-I

CEA Case No.: KNK-1014		Map Scale : 1 cm= 500 m			
Name of the Power line: Regularization of 220 kV S/C line (on D/C towers and partly M/C towers) from existing 220/66 kV substation Chitradurga to existing 400/220 kV PGCIL substation Hiriyur (Beerenahalli)		Total Length : 45.687 km			
		S.R. Value : 25000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No: SR-PTCC/SKT 4375/06 Date: 29.12.2022					
I A	HIRIYUR TELEPHONE EXCHANGE				
1	Exchange to Huliyar Road (A-A1)	1.25	0.0010	12400	12
2	Exchange to TB Circle (A-A2)	1.8	0.0019	10526	20
3	Exchange to TT Road (A-A3)	0.9	0.0009	7778	7
4	Exchange to LIC Office (A-A4)	0.9	0.0008	7110	6
5	Exchange to Lakkavvanahalli (A-A5)	0.9	0.0011	10213	11
II B	ADIVALA TELEPHONE EXCHANGE				
1	Exchange to Patrehalli (B-B1)	Outside IV consideration zone			
2	Exchange to Adivala Village (B-B2)				
III C	YARABALLI TELEPHONE EXCHANGE				
1	Exchange to Yaraballi Village (C-C1)	0.5	0.0005	9829	5
2	Exchange to Challakere Road (C-C2)	1.0	0.0008	10190	8
IV D	AIMANGALA TELEPHONE EXCHANGE				
1	Exchange to towards Bangalore Road (D-D1)	0.5	0.0009	13333	12
2	Exchange to Aimangala Vollage area (D-D2)	0.7	0.0014	12143	17
V E	DODDASIDDAVANAHALLI TELEPHONE EXCHANGE/BTS				
1	Exchange to Kunchiganhal Road (E-E1)	2.25	0.0618	18786	1161
2	Exchange to Dandina Kurubarahatty (E-E2)	0.75	0.0324	18796	609

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VI F	CHITRADURGA JOGIMATTI RSU				
1	RSU to Madakaripura (F-F1)	0.1	0.0017	21500	37
2	RSU to IUDP Layout (F-F2)	Out of parallelism			
VII G	CHITRADURGA JCR RSU				
1	JCR RSU to Pillekerenahalli Road (G-G1)	Out of parallelism			
2	JCR RSU to Bank colony (G-G2)				
3	JCR RSU to NH4 (G-G3)				
VIII H	CHITRADURGA MAIN TELEPHONE EXCHANGE/BTS				
1	Exchange to Malappanahatti Road (H-H1)	Out of parallelism			
2	Exchange to Garehatti (H-H2)				
3	Exchange to Gopalapura road (H-H3)	0.1	0.0005	21500	11
4	Exchange to Anebagilu Road (H-H4)	Out of parallelism			
5	Exchange to Chelagodda (H-H5)				
6	Exchange to Medehalli Road (H-H6)	0.1	0.0003	21500	6
E	VANIVILASAPURA GSM BTS	IV not required			
F	NH4 GSM BTS				
G	ALUR GSM BTS				
H	UDUVALLI GSM BTS				
I	HALEYALANADU GSM BTS				
J	MYAKLURUHALLI GSM BTS				

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Tele : 23019746

Directorate General of Signals

Signals 7

General Staff Branch

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi - 110011

KNK-1014

B/46937/Sigs 7(b)/3109/

03 Jan 2023

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
#28, Race Course Cross Road,
Bengaluru - 560 009

**PTCC PROPOSAL FOR REGULARISATION OF 220KV SC LINE DC TOWERS
FROM EXISTING 220/66KV STATION AT CHITRADURGA TO EXISTING 400/220KV
PGCIL STATION HIRIYUR (BEERENAHALLI) IN CHITRADURGA DISTRICT IN
EXISTING CORRIDOR**

1. Refer your letter No CEE/SLDC/PTCC/F-3482/-6361-69 dt 03 Nov 2022 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(SK Sharma)

Lt Col

GSO 1 (Comn)

for Offg ADG T

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

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

AD - P. Sharma & J. P. U. K.
16/1/23

