



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पावर कम्युनिकेशन डवलपमेंट प्रभाग
Power Communication Development Division

No.: CEA/PCD/ PTCC/KNK-929/137-138

Date: 20.02.2020

The Divisional Engineer (PTCC), Southern Zone,
Bharat Sanchar Nigam Limited (BSNL),
O/o DET (PTCC), Inspection Circle,
1st Floor, Raj Bavan Exchange No. 26,
Sardar Patel Road, Guindy, Chennai-600032

Subject: Induced voltage calculation in respect of 220 kV LILO line from existing 220 kV Guddadahalli (PGCIL)-Kayani Steels(Ferro) limited SC line to proposed 220/11 kV Switchyard S/S of M/S Mukund Sumi Special Steel Limited in Hosa Kanakapura village in Koppala taluk & district.

Ref. : (i) KPTCL Ref. No. CEE/SLDC/PTCC/F-3000/13958-65 Dated: 25.11.2019
(ii) BSNL Ref. No. SR-PTCC/SKT-2659/3 Dated: 27.12.2019
(iii) South Western Railway Ref. No. SG/SWR/PTCC/F-3000/1999 Dated: 26.12.2019
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1907 Dated: 16.01.2020

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables and block circuits of South Western Railways as per details furnished vide ref. (ii) and ref. (iii) respectively has been examined. The Soil Resistivity value has been taken as 30,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL cables and Railway block circuits under single line to ground fault condition are enclosed at Annex-I and Annex- II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

Upendra Kumar
20.2.2020
(Upendra Kumar)
Chief Engineer, PCD

Copy to:

1. ASTE/TELE/HQ, O/o Principal Chief Signal & Telecommunication Engineer, South Western Railway, Rail Soudha, Gadag Road, Hubballi-580020. (Annex-II only)
2. Chief Engineer, KPTCL O/o Chief Engineer Electricity, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009.

M/C

KNK-929

Annex-I

Case No.F-3000/SKT-2659

SSA: Raichur

Name of the power line: Proposed 220KV LILO line from Existing 220KV Guddadahalli [PGCIL]-Kalyani Steels (ferro) Limited SC line to Proposed 220/11 KV Switch yard SS of M/s Mukund Sumi Special Steel limited in Hosa Kanakapura Village in Koppal Taluk & district.

Length:

Average SR value : 30,000 ohm cms 0.078 Kms

Type of BSNL cable: PIJF

Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I H Halahalli Exge UG Cables					
① HALAHALLI	Exge to Kaltavargera village H-H1	}	out	of	Parallelism
② HALAHALLI	Exge to Kaltavargera village H-H2				
③ HALAHALLI	Exge to Halahalli village H-H3				
II A Hitnal Exge UG cables					
HITNAL ①	Exge to Shivapur Road A-A1	}	out	of	Parallelism
HITNAL ②	Exge to Kampasagar A-A2				
HITNAL ③	Exge to Durgamma temple A-A3				
HITNAL ④	Exge to Hosalli A-A4				
HITNAL ⑤	Exge to Huligemma Devi Temple A-A5				
III F Ginigera Exge UG cables					
GINIGERA ①	Exge to Kirloskar Factory F-F1	}	IV	less	than 430V
GINIGERA ②	Exge to Guladahalli F-F2				
GINIGERA ③	Exge to Cinema Talkies F-F3				
GINIGERA ④	Exge to Allanagar F-F4				
GINIGERA ⑤	Exge to Renuka Poultry Farm F-F5				
GINIGERA ⑥	Exge to Ginigera village F-F6				
GINIGERA ⑦	Exge to Basapur F-F7				
IV B Hirebagnal Exge UG cables					
① HIREBAGNAL	Exge to Kasanakandi Road B-B1	}	out	of	Parallelism
② HIREBAGNAL	Exge to Xindia Steels Limited Road B-B2				
③ HIREBAGNAL	Exge to Allanagar Village B-B3				
④ HIREBAGNAL	Exge to Thakur Industries B-B4				
V K Kunikera Exge UG cables					
KUNIKERA ①	Exge to Kunikera thanda K-K1	}	out	of	Parallelism
KUNIKERA ②	Exge to Kunikera Village K-K2				
KUNIKERA ③	Exge to Kunikera Village K-K3				
KUNIKERA ④	Exge to Druvadesh Factory K-K4				

U/E
20/2/2007

मुख्य अभियंता / Chief Engineer
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

Case No.: KNK-929

ANNEXURE -II

Name of the Power line: 220 kV LILO line from existing 220 kV Guddadahalli(PGCIL) -Kayani steels(Ferro) limited SC line to proposed 220/11 KV Switchyard S/S of M/S Mukund Sumi Special Steel Limited in Hosa Kanakapura village in Koppala taluk & district.

Map Scale : 1 cm=500 mts
Total Length : 0.078 km
Soil Resistivity : 30,000 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
-------	------------------	------------------------------	--------------------------	----------------------------------	---------------

South Western Railway letter no:- SG/SWR/PTCC/F-3000/1999 dated 26/11/2019

Affected Blocks & Telecom Circuits Details					
1	Munirabad – Ginigera	0.07	0.00004	9800	0

Handwritten signature and date
25/12/2019

मुख्य अभियंता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Tele : 23019746

Annex-III

KNF-929

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


16 Jan 2020

B/46937/Sigs 7(b)/1907

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 FROM EXISTING 220KV GUDDADAHALLI [PGCIL]-KAYANI
STEELS (FERRO) LIMITED SC LINE TO PROPOSED 220/11KV SWITCHYARD SS OF M/S
MUKUND SUMI SPECIAL STEEL LIMITED IN HOSA KANAKAPURA VILLAGE IN KOPPAL
TALUK & DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-3000/13958-65 dt 25 Nov 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


20.1
31 2331
MTC. LA
27/1/20

104
27/1/20