



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-909/926-927

Date :28.08.2019

DET (PTCC),
QA & Inspection (T&D) Circle, BSNL
1 Floor, Raj Bhavan Exchange,
No. 26, Sardar Patel Road,
Guindy, Chennai – 600032

Subject: Induced Voltage Calculation in respect of PTCC proposal for 220 kV SC line on DC towers from proposed 220/11 kV SS for KLIS IInd stage at Balakundi village to proposed 220/11 kV SS for KLIS Ist stage at Marola village

Reference: (i) BSNL letter no. SR-PTCC/SKT-2201/07 dated 26.07.2019
(ii) South Western Railway letter no. SG/SWR/PTCC/F-2794/1797/34 dated 29.10.2018
(iii) Defense letter no. B/46937/Sigs 7(b)/1261 dated 21.12.2018

Sir,

The instant PTCC proposal has been examined. Low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. Vide ref. (ii) above, South Western Railway have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – II).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above

राष्ट्रीय विद्युत प्राधिकरण
28-08-19
(R.P. Singh)
Director, PTCC

Copy to:

Chief Engineer Electricity, KPTCL, State Load Despatch Centre, No. 28, R.C. Cross Road, Bengaluru - 560009

M/C

CEA Case No.: KNK-909

Annex-I

Case No:SKT-2201		SSA: Vijayapura(Bijapur)			
Name of the power line		Proposed 220 KV SC line on DC towers from proposed 220/11 KV SS for KLIS II nd stage at Balakundi Village to proposed 220/11 KV SS for KLIS I st Stage at Marola Village (Partially on the proposed 220 KV Bagalakot - Balakundi SC line corridor for a distance of 21.217 Kms from Balakundi SS to T.No.171) & rest of the line on new corridor in SC line on DC towers) in Hungund Taluk, Bagalakot District.			
Length:	37.747	Kms			
Soil Resistivity Value : 25000.00		Type of BSNL Cable: PIJF cable			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I	A) HUNGUND Exge UG cables				
1	Exge to Bus Stand to Nagur Cross to Nagur Village(A -A1 - A2-A4)	} IV	Less than	430	V
2	Exge to Amaravathi (A-A3)				
II	B) ILKAL Exge UG cables				
1	Exge to Main Circle (B-B1)	} IV	Less than	430	V
2	Exge to President Chowk (B-B2)				
III	C) DHANNUR Exge UG cables				
1	Exge to Village Chowk (C-C1)	} IV	Less than	430	V
2	Exge to Main Road(C-C2)				
IV	D) KUDAL SANGAM Exge UG cables				
1	Exge to Sangameshwar Temple(D-D1)	} IV	Less than	430	V
2	Exge to SBI Bank(D-D2)				
V	G) AMINGAD Exge UG cables				
1	Exge to Bustand(G-G1)	} IV	Less than	430	V
2	Exge to Sulibhavi(G-G2)				
3	Exge to Hulihal(G-G3)				

21/08/19

राघवेंद्र प्रताप सिंह
RAGHENDRA PRATAP SINGH
निदेशक/Director
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

KNR 909
Tele : 23019746

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

B/46937/Sigs 7(b)/1261

21 Dec 2018

Karnataka Power Transmission Corporation Limited
Office of the Chief Engineer Electricity,
State Load Despatch Centre,
28, R.C. Cross Road,
Bengaluru - 560009

PROPOSED 220KV SC LINE ON DC TOWERS FROM PROPOSED 220/11KV SS FOR KLIS IInd STAGE AT BALAKUNDI VILLAGE TO PROPOSED 220/11KV SS FOR KLIS Ist STAGE AT MALROLA VILLAGE [PARTIALLY ON THE PROPOSED 220KV BAGALKOT-BALAKUNDI SC LINE CORRIDOR FOR A DISTANCE OF 21.217 KMS FROM BALAKUNDI SS TO T.NO. 171) & REST OF THE LINE ON NEW CORRIDOR IN SC LINE ON DC TOWERS] IN HUNGUND TALUK, BAGALKOT DISTRICT

1. Ref your letter No CEE/SLDC/PTCC/F-2794/-9515-23 dt 11 Sep 2018 (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.

(AV Umdekar)
Lt Col
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

for information.