



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-915 /812-813

Date :17.07.2019

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 DC LILO line on MC towers from existing Belagavi – Chikkodi 220 kV DC line to the proposed 220/110/11 kV SS of M/s AEQUS SEZ PVT Ltd at Hattargi village in Hukkeri taluk, Belagavi District

Reference: (i) BSNL letter no. SR-PTCC/SKT-2305/03 dated 29.04.2019
(ii) South Western Railway letter no. SG/SWR/PTCC/F-2834/1838/31 dated 11.04.2019
(iii) Defense letter no. B/46937/Sigs 7(b)/1421 dated 02.04.2019

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

m/c

राज्यवेन्दु उत्तम सिंह
17.07.19
(R.P. Singh)
Director, PTCC

Copy to:

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

एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: nbnareshbhandari@gmail.com

NRPC Building, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: nbnareshbhandari@gmail.com Website: www.cea.nic.in

CEA Case No. : KNK-915

Annex-I

| | | | | | |
|--------------------------------|--|---|---------------------------|------------|-------------|
| Case No:SKT-2305 | | SSA:Belagavi | | | |
| Name of the power line | | Proposed 220 KV DC LILO line on MC towers from existing Belagavi - Chikkodi 220 KV DC line to the proposed 220/110/11 KV SS of M/s AEQUUS SEZ Pvt Limited at Hattargi Village in Hukkeri Taluk,Belagavi District. | | | |
| Length: | 5.637 | Kms | Map Scale : 1cm = 500 mts | | |
| SR Value : 25,000 Ω -cm | | 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 | Y)YAMKANMARDI Exge UG cables | | | | |
| 1 | Exge to Hattargi(Y-Y2) | } | IV | LESS | THAN 430 V |
| 2 | Exge to Indiranagar(Y-Y3) | | | | |
| 3 | Exge to Yamkanmardi Local to Village (Y-Y1-Y4) | | | | |

राघवेंद्र प्रताप सिंह 17.07.19
 RAGHVEN德拉 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

Annex - 11

RNK-90

Tele : 23019746

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

B/46937/Sigs 7(b)/1421

32 Apr 2019

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 DC LILO LINE ON MC TOWERS FROM EXISTING BELAGAVI-CHIKKODI
220KV DC LINE TO THE PROPOSED 220/110/11KV SS OF M/S AEQUS SEZ PVT LIMITED AT
HATTARGI VILLAGE IN HUKKERI TALUK, BELAGAVI DISTRICT**

1. Ref your letter No CEE/SLDC/PTCC/F-2834/-16936-44 dt 17 Jan 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

for information.