

भारत सरकार

Government of India विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No./CEA/PCD/PTCC/TNG-55/502-03

The Divisional Engineer Telecom (PTCC), QA & Inspection (T&D) circle, BSNL, 1st 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 line on MC towers from 400/220/132kV Kethireddypally SS to 132/33 kV Kanakamamidi SS

Reference: i) BSNL letter no. SR-PTCC/STS-2098/04 dated 03.07.2018

ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS01201819 RC dated 30.04.2018

iii) Defense letter no. B/46937/Sigs 7(b)/1098 dated 26.07.2018

Sir.

The instant PTCC proposal has been examined. The low frequency induction on BSNL Telecom circuits with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 30,000 Ohm-cm. The voltages likely to be induced on paralleling telecom circuits of BSNL under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide ref.(ii) above, South Central 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

Yours faithfully,

Date: 16.04.2019

(Naresh Bhandari) Chief Engineer

Copy to:

Chief Engineer, Construction, TSTRANSCO, Vidyut Soudha, Hyderabad-500082

MIC

Case No.: TNG-55

Name of the Power Line: 220 KV DC Line on 220 KV MC Line from 400/220/132 KV SS Kethireddy Pally to proposed 132/33 KV SS Kanakamamidi

मानवित्र स्केल : 1 सेमी=500 मीटर **कुल लम्बाई** : 5.00 कि.मी.

एस. आर. मान : **30**,000 ओम- सेमी

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| | BSNL DETAIL | |
|----------------|--|--|
| | Ref. No: SR-PTCC/STS-2098/04 DATED | 0: 03-07-2018 |
| A | Pllagutta Exchange | |
| Al | Exchange to Tolkatta | |
| A2 | Exchange to Malkapur IV less than 430 Volts. | |
| A3 | Exchange to Mudimial | |
| В | Chavella Evahanca | |
| <u>в</u> В1 | Chevella Exchange | 77.1 d 420.77 f |
| BI | Exchange to Keşaram | IV less than 430 Volts. |
| | | 60 |
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| | | नरेश भंडारी/NARESH BHANDARI मुख्य अभियन्ता/Chief Engineer कन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत गंगालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ली /New Delhi-Go |
| | | मुख्य अभियन्ता/Chief Engineer |
| | | कन्द्राय विद्युत प्राथकरण/८.व.न. |
| | | भारत सरकार/Govt. of India |
| | | नई दिल्ली /New Delhi-65 |
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ANNEXURE -II TNG-55

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)/1098 /

26 Jul 2018

Chief Engineer Construction,
Transmission Corporation of Telangana Limited
TSTRANSCO
Vidyuth Soudha
Hyderabad-500 082

ERECTION OF 220KV DC LINE ON NARROW BASED MC TOWERS FROM 400/220/132KV KETHIREDDYPALLY SS TO 132/33KV KANAKAMAMIDI SS IN RANGA REDDY DIST.

- 1. Reference your letter No. CPT 130/SE-Const/F.Kanakamamidi SS & lines/D.No.239/18 dt 11 Apr 2018 (copy att).
- 2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet 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

Copy to :-

Central Electricity Authority
Power Communication Development Division
NRPC Complex,18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi – 110016

- For information.