



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

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No.: CEA/PCD/PTCC/TNG-84/537-38

Date: 14.09.2020

**Subject:** PTCC proposal for 220 kV SMDC line from Akkaram 220/11 kV SS to Markook 220/11 kV SS in Siddipet District -regd.

**Ref.:** (i) TSTRANSCO Ref. no. CE(LIS)/SE(LIS)/DE3/AE/e-TSTLI-02/2017-18/PTCC/D.No.185/2019 dated 26.04.2019  
(ii) BSNL Ref. no. SR-PTCC/STS/2460/04 dated 18.10.2019  
(iii) South Central Railway Ref. no. SG.85/4/3/PTCC/SCRSTS202003 RC dated 03.02.2020  
(iv) Defense Ref. no. B/46937/Sigs 7(b)/1601 dated 24.06.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables, as per details furnished vide ref. (ii), has been examined. The Soil Resistivity value has been taken as 10,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. South Central Railway, vide ref. (iii) above, has issued NOC for this line. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

**Encl.:** As above.

*Upendra Kumar*  
14.09.2020

(Upendra Kumar)  
Chief Engineer

*MIC*

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

**Copy to:**

Chief Engineer, Lift Irrigation Schemes, TSTRANSCO, Vidyut Soudha, Hyderabad - 500082

Scale: 1 : 50000

Name of Power line: (I) 220 KV SMDCLine from 220/11 KV Akkaram SS to 220/11 KV Markook SS  
 (II) 220/11 KV SS at Markook under Package-14 of Kaleshwaram Lift Irrigation  
 Scheme in Siddeipet - LF comments.

Length: 9.15 KMs

Average SR value : 10000 R-cm

Type of Cable: PIJF

| No  | Name of telecom line             | LOP in KMs           | MC in Ohms          | FC in Amps | IV in Volts | Safe Separation Distance |  |
|-----|----------------------------------|----------------------|---------------------|------------|-------------|--------------------------|--|
| 1   | <b>Kodakandla Exchange</b>       |                      |                     |            |             |                          |  |
| 1   | Exchange to Rimmanaguda (a)      | } Out of parallelism |                     |            |             |                          |  |
|     | Exchange to Rimmanaguda (b)      |                      |                     |            |             |                          |  |
|     | Exchange to Rimmanaguda (c)      |                      |                     |            |             |                          |  |
| 1A  | Exchange to Kukurpally (a)       |                      |                     |            |             |                          |  |
|     | Exchange to Kukurpally (b)       |                      |                     |            |             |                          |  |
| 1B  | Exchange to Kodakandla Local (a) |                      |                     |            |             |                          |  |
|     | Exchange to Kodakandla Local (b) |                      |                     |            |             |                          |  |
|     | Exchange to Kodakandla Local (c) |                      |                     |            |             |                          |  |
| 1C  | Exchange to Prasad seeds (a)     |                      |                     |            |             |                          |  |
|     |                                  |                      |                     |            |             |                          |  |
| II  | <b>Thigul Exchange</b>           |                      |                     |            |             |                          |  |
| 2   | Exchange to Chebarthy (a)        | } IV less than 430V  |                     |            |             |                          |  |
|     | Exchange to Chebarthy (b)        |                      |                     |            |             |                          |  |
|     | Exchange to Chebarthy (c)        |                      |                     |            |             |                          |  |
| 2A  | Exchange to Akkaram (a)          |                      |                     |            |             |                          |  |
|     | Exchange to Akkaram (b)          |                      |                     |            |             |                          |  |
| 2B  | Exchange to Thigul Local (a)     |                      |                     |            |             |                          |  |
|     | Exchange to Thigul Local (b)     |                      |                     |            |             |                          |  |
|     | Exchange to Thigul Local (c)     |                      |                     |            |             |                          |  |
|     |                                  |                      |                     |            |             |                          |  |
| III | <b>Jagadevapur Exchange</b>      |                      |                     |            |             |                          |  |
| 3   | Exchange to Allirajpet (a)       | } IV less than 430V  |                     |            |             |                          |  |
|     | Exchange to Allirajpet (b)       |                      |                     |            |             |                          |  |
|     | Exchange to Allirajpet (c)       |                      |                     |            |             |                          |  |
| 3A  | Exchange to Lingareddypally (a)  |                      |                     |            |             |                          |  |
| 3B  | Exchange to Itikyala (a)         |                      |                     |            |             |                          |  |
|     | Exchange to Itikyala (b)         |                      |                     |            |             |                          |  |
| 3C  | Exchange to Yerravally(a)        |                      |                     |            |             |                          |  |
|     | Exchange to Yerravally(b)        |                      |                     |            |             |                          |  |
|     |                                  |                      |                     |            |             |                          |  |
| IV  | <b>Gajwel Exchange</b>           |                      |                     |            |             |                          |  |
| 4   | Exchange to Darmareddypally (a)  | } Out of parallelism |                     |            |             |                          |  |
|     | Exchange to Darmareddypally (b)  |                      |                     |            |             |                          |  |
| 4A  | Exchange to Jaligama (a)         |                      |                     |            |             |                          |  |
|     | Exchange to Jaligama (b)         |                      |                     |            |             |                          |  |
| 4B  | Exchange to Kyasaram (a)         |                      |                     |            |             |                          |  |
|     | Exchange to Kyasaram (b)         |                      |                     |            |             |                          |  |
| 4C  | Exchange to Pidched (a)          |                      |                     |            |             |                          |  |
|     | Exchange to Pidched (b)          |                      |                     |            |             |                          |  |
|     | Exchange to Pidched (c)          |                      |                     |            |             |                          |  |
| 4D  | Exchange to Srigiripally (a)     |                      | } IV less than 430V |            |             |                          |  |
|     | Exchange to Srigiripally (b)     |                      |                     |            |             |                          |  |
|     | Exchange to Srigiripally (c)     |                      |                     |            |             |                          |  |
| 4E  | Exchange to Pregnapur & RBL (a)  |                      |                     |            |             |                          |  |
|     | Exchange to Pregnapur & RBL (b)  |                      |                     |            |             |                          |  |
|     | Exchange to Pregnapur & RBL (c)  |                      |                     |            |             |                          |  |

Prateek  
 Prateek SRIVASTAVA  
 Asst. Director II  
 CEA  
 Ministry of Power  
 Govt. of India  
 New Delhi



Tele : 23019746

(Annexure-II) TNG-84

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

B/46937/Sigs 7(b)/1601

29 Jun 2019

Chief Engineer,  
Lift Irrigation Schemes,  
Transmission Corporation of Telangana Limited  
TSTRANSCO  
Vidyut Soudha,  
Hyderabad - 500 082

**SUPPLY OF MATERIAL/EQUIPMENT, ERECTION, TESTING & COMMISSIONING,  
CONSTRUCTION, & CIVIL WORKS OF (I) 220KV SMDC LINE FROM 220/11KV AKKARAM SS  
TO 220/11KV MARKOOK SS (II) 220/11KV SUB-STATION AT MARKOOK UNDER PACKAGE-  
14 OF KALESHWARAM LIFT IRRIGATION SCHEME IN SIDDIPET DISTRICT ON TURNKEY  
BASIS-PTCC PROPOSALS-APPROVAL-REQUESTED-REG**

1. Ref your letter No Lr. No. CE(LIS)/SE(LIS)/DE3/AE/e-TSTLI-02/2017-18/PTCC/D.No. 185/2019 dt 26 Apr 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
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.