



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : TNG-124 : 13/0 - 3/2
PTCC proposal for LILO of 400 kV TMDC D/C Mamidipally to Khammam transmission line at Choutuppal S/S under Yadadri Thermal Power Evacuation Scheme : (8.11+ 8.578) km

| Reference: | | |
|------------|---|------------|
| S. No. | Reference No. | Dated |
| (i) | TSTRANSCO:CE/400kV/SE-II/400kV/D1-A2/e-EHVT-04/19-20/D.No. 864/21 | 27.09.2021 |
| (ii) | BSNL: SR-PTCC/STS-3790/5 | 27.04.2022 |
| (iii) | South Central Railway: SG.85/4/3/PTCC/SCRTS202149 RTD | 24.01.2022 |
| (iv) | Defense: B/46937/Sigs 7(b)/2653 | 24.12.2021 |

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide above reference (ii) has intimated that no BSNL telecom lines/cables or assets existing or proposed within 6 months in paralleling distance of 8 km from proposed power line and has conveyed its NOC. The LF induction on telecom cables of Block & Telecom circuits of South Central Railway with respect to details furnished vide above reference (iii) has been computed. The voltages likely to be induced on paralleling telecom cables of Block & Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. Vide above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annexure-II).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

राधकेशु प्रताप सिंह
Director 28.04.22

To,

| | | | |
|----|---|---|----------------------|
| 1. | Divisional Engineer (PTCC), Southern Zone | BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032. | Annexure-II only |
| 2. | SSTE/TELE/HQ | SCR, Head Quarters Office, Signal & Telcomm Branch, Rail Nilayam, Secunderabad-500025. | Annexure-I only |
| 3. | Chief Engineer/400 kV | TSTRANSCO, Vidyut Soudha, Hyderabad-500082. | Copy for information |



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के.वि.प्रा. केस सं. : TNG-124 :
पी.टी.सी.सी. प्रस्ताव LILO of 400 kV TMDC D/C Mamidipally to Khammam transmission line at Choutuppal S/S under Yadadri Thermal Power Evacuation Scheme : (8.11+ 8.578) km

| क्रमांक | सन्दर्भ सं. | दिनांक |
|---------|---|------------|
| (i) | TSTRANSCO:CE/400kV/SE-II/400kV/D1-A2/e-EHVT-04/19-20/D.No. 864/21 | 27.09.2021 |
| (ii) | BSNL: SR-PTCC/STS-3790/5 | 27.04.2022 |
| (iii) | South Central Railway: SG.85/4/3/PTCC/SCRTS202149 RTD | 24.01.2022 |
| (iv) | Defense: B/46937/Sigs 7(b)/2653 | 24.12.2021 |

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल ने उपरोक्त संदर्भ (ii) के माध्यम से सूचित किया है कि प्रस्तावित बिजली लाइन से 8 किमी की समानांतर दूरी में बीएसएनएल की कोई भी दूरसंचार लाइन/केबल या संपत्ति मौजूद नहीं है या 6 महीने के भीतर प्रस्तावित नहीं है एवं अपनी एनओसी से अवगत कराया है। दक्षिण मध्य रेलवे के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना उपरोक्त संदर्भ (iii) में दिए गए विवरण के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत दक्षिण मध्य रेलवे के ब्लॉक और टेलीकॉम सर्किट पर प्रेरित होने की संभावना वाले वोल्टेज अनुलग्नक-I में संलग्न है। उपयुक्त स्क्रीनिंग कारकों पर विचार कर लिया गया है। उपरोक्त संदर्भ (iv) द्वारा, रक्षा प्राधिकरण ने अनापत्ति प्रमाण पत्र (एन.ओ.सी.) जारी किया है। (एक प्रति अनुलग्नक-II के रूप में संलग्न है)

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

प्रधान प्रमुख सिई
निदेशक
28-04-22

To,

| | | | |
|----|---|---|------------------|
| 1. | Divisional Engineer (PTCC), Southern Zone | BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032. | केवल अनुलग्नक-II |
| 2. | SSTE/TELE/HQ | SCR, Head Quarters Office, Signal & Telcomm Branch, Rail Nilayam, Secunderabad-500025. | केवल अनुलग्नक-I |
| 3. | Chief Engineer/400 kV | TSTRANSCO, Vidyut Soudha, Hyderabad-500082. | जानकारी हेतु |

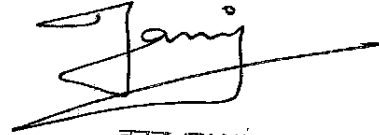
ANNEXURE -I / अनुलग्नक-I**CEA Case No.: TNG-124****Name of the Power line:** LILO of 400 kV TMDC D/C Mamidipally to Khammam transmission line at Choutuppal S/S under Yadadri Thermal Power Evacuation Scheme.**Map Scale** : 1 cm=500 m
Total Length : (8.11+ 8.578) km
Soil Resistivity : 5,000 ohm-cm

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

South Central Railway letter no. : SG.85/4/3/PTCC/SCRSTS202149 RTD Dated : 24.01.2022

Affected Blocks & Telecom Circuits Details

| S.No. | Block Details | Consideration Zone | Value |
|-------|--------------------------------------|-------------------------------|-------|
| 1 | Valigonda (VLG) to Ramannapet (RMNP) | Outside IV Consideration Zone | 00 |
| 2 | Ramannapet (RMNP) to Chityala (CTYL) | Outside IV Consideration Zone | 00 |

तनुज/TANUJ
भहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-65

Tele : 23019746

(Annexure-II) / अनलग्नक-II

TNG-124

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


B/46937/Sigs 7(b)/2653

24 Dec 2021

Chief Engineer/400KV
TSTRANSCO
Transmission Corporation of Telangana State Limited
Vidyut Soudha, Hyderabad-500 082

**YADADRI THERMAL POWER EVACUATION SCHEME (5X800MW)-ERECTION
OF DOUBLE CIRCUIT LILO OF EXISTING 400KV KHAMMAM-MAMIDIPALLY
TMDC LINE TO PROPOSED 400/220/132KV CHOUTUPPAL SUB-STATION
(8.11KMS+8.578KMS)-PTCC PROPOSAL**

1. Refer your letter No Lr. No. CE/400kv/SE-II/400kv/D/1-A2/e-EHVT-04/19-20/D.No.864/21 dt 27 Sep 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your above mentioned letter.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(Rakesh Kumar)
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

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

for information