



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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CEA Case No. : TNG-112/38-39
PTCC proposal of LILO of existing 220 kV Pulkurthy – Bheemghanpur line at Ramappa point (Loc.No. 92) to proposed 400/220/132 kV KTPP SS in Jayashankar Bhupalpallay Dist.: 23.60 km

Reference:		
S. No.	Reference No.	Dated
(i)	TSTRANSCO: CPT-360/SE-Const/F.220KV Puluk-B.Ghanpur to KTPP/PTCC/D.no. 461/2021	27.04.2021
(ii)	BSNL: SR-PTCC/STS 3258/03	19.08.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRTS202118 RC	30.06.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2420	30.06.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL with respect to details furnished vide above reference (ii) has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. Vide reference (iii) above, South Central Railway have issued No Objection Certificate (NOC). Vide reference (iv) above, The Defence Authority have issued No Objection Certificate (NOC). (a copy enclosed as Annex-II).

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

Encl.: As above.

*शशिबेन्द्र प्रतापसिंह*  
19.1.22  
Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Chief Engineer (Construction)	TSTRANSCO, Vidyut Soudha, Hyderabad – 500082	Copy for information

M/c

C&A Case No: ENA-112

Annex-I

Case No. STS 3258		SSA: WARANGAL			
Name of the power line: Erection of proposed 220 KV Twin Moose DC Line (24KM) for making LILO of existing 220KV Pulkurthy-Bheemghanpur Twin Moose line at Ramappa point (Loc No.92) to proposed 400/220/132KV KTPP (Kakatiya Thermal Power Plant) Sub-station					
Length:	24.0 (23.60) Kms				
SR value: 2500V/20mm			Type of BSNL cable: PIJF		
Sl.No.	Name of Telecom line	LOP in KMS	MC in Ohms	FC in Amps	IV in Volts
I (A)	Chelpur Exchange	}			
1	Chelpur Exchange to P1(A-A1)				
2	Chelpur Exchange to P2(A-A2)	}	IV less	800A	430 V
II(B)	Manzoornagar Exchange				
1	Manzoornagar Exchange to P1(B-B1)	}			
2	Manzoornagar Exchange to P2(B-B2)				

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Assit. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

**Note:** From the references submitted by TSTRANSCO and BSNL, it has been observed that Chelpur Exchange of BSNL is falling within the EPR zone (430 V) of proposed 400/220/132 kV KTPP Substation. Necessary action in this regard may be taken.

Annex-II

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)/2420

30 Jun 2021

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

**ERECTION OF PROPOSED 220KV TWIN MOOSE DC LINE (23.6KM) FOR  
MAKING LILO OF EXISTING 220KV PULUKURTHY-BHEEMGHANPUR TWIN  
MOOSE LINE AT RAMAPPA POINT (LOC NO. 92) TO PROPOSED  
400/220/132KV KTPP SUBSTATION IN JAYASHANKAR BHUPALAPALLY  
DISTRICT ON TURNKEY BASIS- PTCC PROPOSALS-FORWARDED-REG.**

1. Refer your letter No Lr. No. CPT-360/SE-Const/F.220KV Puluk-B.Ghanpur to KTPP/PTCC/D.No. 461/2021 dt 27 Apr 2021 (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)  
Lt Col  
GSO 1 (Comn)  
for SO-in-C

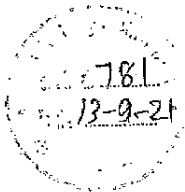
**Enclosures** : (As above)

**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

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



**TRANSMISSION CORPORATION OF TELANGANA LIMITED**

Request No - 106616

From  
~~The~~ Chief Engineer,  
Construction,  
Vidyut Soudha,  
Hyderabad - 500 082.

**TNG-112(new)**

To  
The Divisional Engineer (Telecom),  
Telecom (T&D Circle)  
Bharat Sanchar Nigam Ltd.,  
1<sup>st</sup> Floor, Rajbhavan Exchange,  
26, Sardarpatel Road, Guindy,  
Chennai - 600 032.

**Lr.No. CPT - 360/SE- Const / F. 220KV Puluk-B.Ghanpur to KTPP /PTCC/D.No. 461 /2021,**  
**Dt: 27.04.2021.**

Sir,

Sub:- Erection of proposed 220kV Twin Moose DC line (23.6 KM) for making LILO of existing 220kV Pulkurthy - Bheemghanpur Twin Moose line at Ramappa point (Loc No.92) to proposed 400/220/132kV KTPP (Kakatiya Thermal Power Plant) Substation in Jayashankar Bhupalapally District on Turnkey basis - PTCC proposals - Forwarded - Regarding.

\* \* \*

The work is in progress for erection of proposed 220kV Twin Moose DC line (23.6 KM) for making LILO of existing 220kV Pulkurthy - Bheemghanpur Twin Moose line at Ramappa point (Loc No.92) to proposed 400/220/132kV KTPP (Kakatiya Thermal Power Plant) Substation in Jayashankar Bhupalapally District on Turnkey basis. The PTCC proposals in the prescribed proforma are enclosed herewith the following details:

- i) Two sets of questionnaire duly filled in.
- ii) Two copies of the statement showing soil resistivity values along with the proposed route.
- iii) Tower configuration (2 copies)
- iv) Single line diagram of the terminal substation (2 Nos.)
- v) Route map drawn to a scale of 1:50000 (2 Nos.)

**EPR values**

Name of the Substation	½ Diagonal Distance Xd (m)	Fault Current I (Amp)	d 430V (m)	d 650V (m)	d 7kV (m)	d 10kV (m)	Combined Earth mat resistance (Ω)
220kV SS Pulkurthy	50.00	14819.21	725.42	462.97	Negative	Negative	0.45
220kV SS Bheemghanpur	49.50	6504.93	324.91	198.19	Negative	Negative	0.5
400/220/132kV SS KTPP	195.50	20621.88	3554.80	2285.47	34.88	Negative	0.4

The proposed lines is programmed to be commissioned by May-2021. It is requested to arrange for furnishing of the Telecom details at the earliest.

There are no Railway Lines exists within 8 KM vicinity of the proposed line.

The main line i.e., 220kV Pulkurthy - Bheemghanpur Twin Moose line was charged in the year 2008 and PTCC route approval particulars are not traceable.

*[Handwritten signature]*

TNG-112

**BHARAT SANCHAR NIGAM LIMITED**  
(A Govt. of India Enterprise)  
**QA & INSPECTION (T & D) CIRCLE**  
Office of the Divisional Engineer Telecom (PTCC)  
I Floor, Raj Bhavan Telephone Exchange  
No.26, Sardar Patel Road, Guindy, Chennai-32.  
Tele : 044-2235 4514, E-mail deptccchi@gmail.com

To

The Director, PTCC,  
CEA, New Delhi.

SR-PTCC/STS 3258/03

dtd@Chennai-32 the

19.08.2021

Sub:- PTCC Clearance for Erection of proposed 220 KV Twin Moose DC Line (24KM) for making LILO of existing 220KV Pulkurthy-Bheemghanpur Twin Moose line at Ramappa point (Loc No.92) to proposed 400/220/132KV KTPP (Kakatiya Thermal Power Plant) Sub-station.-Reg.

Ref :-CPT -360/SE-Const/F.220KV Puluk-B.Ghanpur to KTPP/PTCC/D.No .461/2021 Dt 27.04.2021.

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The route map for the above mentioned EHT line with telecom details duly marked on them by the following Territorial officers concerned and the consolidated list of the telecom details are enclosed.

**GM (T) BSNL, WARANGAL TELECOM DISTRICT**

You are requested to convey your comments regarding LF induction on the paralleling Telecom Lines under worst fault conditions due to the proposed power line, within 6 weeks from the date of receipt of this letter.

The Master copy of the topo map may be returned to this office along with IV comments.

**Note:** It is requested that the safe separation distance with and without GD tube protection may also be intimated in all cases in which the IV exceeds 2000V.

Encl: Marked Topo Map.

DIVISIONAL ENGINEER

PTCC, Southern Region  
Inspection Circle, BSNL  
Raj Bhavan Telephone Exchange  
I Floor, 26, Sardar Patel Road,  
Guindy, Chennai-600 032.

*N. Sunthi*

Divisional Engineer Telecom  
PTCC, Southern Region,  
QA & Inspection Circle, Ch 32

1730  
01/09/21

*MTC-AIGR* *At 235*



TNG-112

दक्षिण मध्य रेलवे

**South Central Railway**

मुख्यालय कार्यालय, सिग्नल एवं दूरसंचार शाखा, रेल निलयम, सिकंदराबाद - 500025

Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad -500025

No. SG.85/4/3/PTCC/SCRTS202118 RC

Date: 30-6-2021

**Divisional Engineer Telecom,**

PTCC, Southern Region, T&D Circle,  
Rajbhavan Exchange, 1<sup>st</sup> Floor, No.26,  
Sardar Patel Road, Guindy,  
**Chennai- 600 032.**

Sub: Erection of proposed 220kV Twin Moose DC line (23.6 KM) for making LILO existing 220kV Pulukhurthy - Bheemghanpur Twin Moose line at Ramappa point (Loc No. 92) to proposed 400/220/132kV KTPP (Kakatiya Thermal Power Plant) Substation in Jayashankar Bhupallapally District on Turnkey basis - PTCC proposals- Railway Telecom Clearance- Reg.

Ref: CE/Con/TSTRANSCO's letter No. CPT-360/SE-Const/F.220KV Puluk-B,Ghanpur to KTPP/PTCC/D.No. 461/2021, dtd: 27-4-2021.

\* \* \*

उक्त संदर्भाधीन पत्र के अनुसार चूँकि, अधीक्षक इंजीनियर, ओ एम सी सर्कल, टीएस ट्रांस्को वरंगल, ने यह प्रमाणित किया है कि, प्रस्तावित लाइन के 8 किमी के आसपास के क्षेत्र में रेल की पट्टी नहीं है अतः उक्त पीटीसीसी प्रस्ताव को निपटाने में इस रेलवे को कोई आपत्ति नहीं है.

With reference to the above cited letter, since it is certified by Superintending Engineer, OMC Circle, TSTRANSCO, Warangal that the Railway line does not exists within 8 Kms vicinity of the proposed power line, this Railway has **NO OBJECTION** in clearing the above said PTCC proposal.

*G.V. Manjunatha*  
30/06/2021  
(जी.वी.मंजूनाथ) G.V.Manjunatha

सिस्टीम/टेली/प्रका **SSTE/TELE/HQ**

कृते महाप्रबंधक/दूरसंचार **For General Manager/Tele**

C/-

1. **The Director (PTCC),** Central Electricity Authority, Load Despatch & Telecom Division, NREB Complex, 18-A, Shaheed jeetsingh Marg, Katwaria Sarai, **New Delhi- 110016.**
2. **The Chief Engineer, Construction,** TSTRANSCO, Vidyut Soudha, **Hyderabad - 500 082.**

*Sr. Pankaj*  
PSS

831

29.6.21