

दि. 22.06.22

File No.CEA-PS-17-11(14)/24/2022-PCD Division



आलोकित  
अर्थ नक्षत्र

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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के.वि.प्रा. केस सं. : टी.एन.जी - 114

पी.टी.सी.सी. प्रस्ताव 400 के.वी. डी.सी. 400/220 के.वी. वेल्लूर उपकेन्द्र से 400/11 के.वी. येदुला उपकेन्द्र तक 400 के.वी. डी.सी. लाइन (46.8 कि.मी.)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	टीएसट्रांस्को: CE/PRLIS/D1-A1/F.Velloor-Yedula Line/D.No.407/2021	10.06.2021
(ii)	बीएसएनएल: SR-PTCC/STS 3330/4	17.05.2022
(iii)	दक्षिण मध्य रेलवे: SG.85/4/3/PTCC/SCRTS202139 RTD	31.12.2021
(iv)	रक्षा: B/46937/Sigs 7(b)/2466	04.08.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं दक्षिण मध्य रेलवे के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) एवं (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू प्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं दक्षिण मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज क्रमशः अनुलग्नक - I एवं II में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक- III में संलग्न)।

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

संलग्न: ऊपरोक्त अनुसार

ह/-

निदेशक

To,

1.	डिवीजनल इंजिनियर, (पीटीसीसी), दक्षिण क्षेत्र	बीएसएनएल, इस्पेक्शन सर्किल, प्रथम तल, राज भवन एक्सचेंज, सं. 26, सरदार पटेल मार्ग, गिंडी, चेन्नई - 600032	अनुलग्नक I & III केवल
2.	महाप्रबंधक (एस एंड टी)	दक्षिण मध्य रेलवे, पीसीएसटीई का कार्यालय, सातवाँ तल, रेल निलयम, सिकंदराबाद - 500025	अनुलग्नक II केवल
3.	मुख्य अभियंता (पीआरएलआईएस)	टीएसट्रांस्को, विद्युत सौधा, हैदराबाद - 500082	जानकारी हेतु



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-114

PTCC proposal of 400 kV D/C line from 400/220 kV Velloor S/S to 400/11 kV Yedula S/S (46.8 km)

## Reference:

S. No.	Reference No.	Dated
(i)	TSTRANSCO: CE/PRLIS/D1-A1/F.Velloor-Yedula Line/D.No.407/2021	10.06.2021
(ii)	BSNL: SR-PTCC/STS 3330/4	17.05.2022
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRSTS202139 RTD	31.12.2021
(iv)	Defense: B/46937/Sigs 7(b)/2466	04.08.2021

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

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

**Encl.:** As above.

Sd/-

Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Gundy, Chennai-600032	Only Annex-I & III
2.	GM (S&T)	South Central Railway, Office of the PCSTE, 7 <sup>th</sup> Floor, Rail Nilayam, Secunderabad - 500025	Only Annex-II
3.	Chief Engineer (PRLIS)	TSTRANSCO, Vidyut Soudha, Hyderabad - 500082	For kind info

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CEA Case No.: TNG-114

Annex-I

Case No. STS 3330		SSA: Mahaboobnagar			
PTCC proposal for erection of 400 KV Quad Moose Line from 400/220KV Velloor SS to proposed 400/11 KV Yedula LISS -46.8 KM					
Length of Power Line		46.8 Kms			
SR value		10000 $\Omega$ -m Type of BSNL cable: PIJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I	Wanaparthi(WNP) Telephone Exchange Cables	}			
1	Exge to Rajiv Chowk( Pillar No.22) to DP1				
2	Exge to Rajiv Chowk( Pillar No.23) to DP3				
3	Exge to Rajiv Chowk( Pillar No.24) to DP2				
4	Exge to Indira Park (Pillar No.42) to DP4				
5	Exge to Indira Park (Pillar No.43) to DP5				
6	Exge to Indira Park (Pillar No.44) to DP6				
7	Exge to Indira Park (Pillar No.53) to DP7				
8	Exge to Gandhi Chowk (Pillar No.34) to DP10				
9	Exge to Gandhi Chowk (Pillar No.45) to DP12				
10	Exge to Gandhi Chowk (Pillar No.46) to DP9				
11	Exge to Gandhi Chowk (Pillar No. 48) to DP8				
12	Exge to Gandhi Chowk (Pillar No.49) to DP11				
13	Exge to Bandaru Nagar (Pillar No.21) to DP13				
14	Exge to Bandaru Nagar (Pillar No.25) to DP14				
15	Exge to Gandhi Nagar (Pillar No.26) to DP15				
16	Exge to Gandhi Nagar (Pillar No.27) to DP 16				
17	Exge to Vallabh Nagar (Pillar No.56) to DP17				
IV less than 430 V					
II	Kothakotha(KKT) Telephone Exchange Cables	}			
1	Exge to Station Rd (Pillar No.28) to DP1				
2	Exge to Station Rd (Pillar No.29) to DP2				
3	Exge to Grandhalayam (Pillar No.26) to DP4				
4	Exge to Grandhalayam (Pillar No.27) to DP3				
5	Exge to Raghavendra Colony(Pillar No.24) to DP6				
6	Exge to Raghavendra Colony(Pillar No.25) to DP5				
7	Exge to Bharath Petrol pump(Pillar No.22) to DP8				
8	Exge to Bharath Petrol pump(Pillar No.23) to DP7				
9	Exge to Station Rd (Pillar No.21) to DP9				
III	Addakal(ADKL) Telephone Exchange Cables	}			
1	Exge to Cotton Mill(Mini Pillar -1) to DP1				
2	Exge to SC Colony(Mini Pillar -2) to DP2				

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IV	Peddmandadi(PDMDI) Telephone Exchange Cables			
1	Exge to Peddamandadi Local (DP No.1)			
2	Exge to Peddamandadi Local (DP No.2)			
3	Exge to Peddamandadi Local (DP No.3)			
4	Exge to Peddamandadi Local (DP No.4)			
5	Exge to Peddamandadi Local (DP No.5)			
6	Exge to Peddamandadi Local (DP No.6)			
V	Gopalpet(GP) Telephone Exchange Cables			
1	Exge to Shopping complex (Pillar No.1) to DP1	}	IV less than 430 V	
2	Exge to Shopping complex (Pillar No.1) to DP2			
3	Exge to Shopping complex (Pillar No.1) to DP3			
4	Exge to Shopping complex (Pillar No.1) to DP4			
VI	Balijepalli(BLP) Telephone Exchange Cables			
1	Exge to Balijepalli Local (DP No.1)			
2	Exge to Balijepalli Local (DP No.2)			
3	Exge to Balijepalli Local (DP No.3)			
4	Exge to Balijepalli Local (DP No.4)			
5	Exge to Balijepalli Local (DP No.5)			
6	Exge to Balijepalli Local (DP No.6)			
VII	Buddharam(BUD) Telephone Exchange Cables			
1	Exge to Buddharam Local (DP No.1)			
2	Exge to Buddharam Local (DP No.2)			
3	Exge to Buddharam Local (DP No.3)			
4	Exge to Buddharam Local (DP No.4)			
VIII	Jaitirumalapur(JI) Telephone Exchange Cables			
1	Exge to Jaitirumalapur Local (DP No.1)			
2	Exge to Jaitirumalapur Local (DP No.2)			
3	Exge to Jaitirumalapur Local (DP No.3)			

*Prateek*

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA  
 सहायक निदेशक-I/Asstt. Director-I  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत मंत्रालय/Min. of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi-66

**ANNEXURE - II**

**CEA Case No.: TNG-114**

**Name of the Power line: 400 kV D/C line from 400/220 kV Veltor S/S to 400/11 kV Yedula S/S**

**Map Scale : 1 cm=500 m**

**Total Length : 46.8 km**

**S.R. Value : 10,000  $\Omega$ -cm**

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	LV in Volts.
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South Central Railway: SG.85/4/3/PTCC/SCRTS202139 RTD Dated: 31.12.2021

**Affected Blocks & Telecom Circuits Details**

1	Kaukuntla (KQQ) – Wanaparti Road (WPR)	1.25	0.0002	9200	2
2	Wanaparti Road (WPR) – Sriramnagar (SRNR)	Outside IV consideration zone			0
3	Sriramnagar (SRNR) – Gadwal Jn (GWD)				0

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-1 / Asstt. Director-I  
 केन्द्रीय विद्युत प्रधिकरण / C.E.A.  
 विद्युत मंत्रालय / Min. of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-66

Tele : 23019746

Annex-III

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


09 Aug 2021

B/46937/Sigs 7(b)/2466

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

ERECTION OF 400KV QUAD MOOSE DC LINE FROM 400/220KV VELTOOR SS  
TO PROPOSED 400/11KV YEDULA LISS 46.8KM- PTCC PROPOSALS-  
FORWARDED-REG.

1. Refer your letter No. Ir No. CE/PRLIS/D1-A1/F.Veltoor-Yedula line/D.No.407/2021 dt 10 Jun 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per 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)  
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

23/8/21

