

I/23324/2022(2)



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. : AND-711	Date: 24.08.2022
PTCC proposal of 220 kV DC line form existing 400/220 kV SS Hindupur to existing 220/110/33 kV SS Gollapuram in Anantapuram District (29.346 km)	

Reference:		
S. No.	Reference No.	Dated
(i)	APTransco: CE/Const/SE/PM/HUP-Gollapuram/PTCC proposals/D. No. 167/21	19.04.2021
(ii)	BSNL: SR-PTCC/SAP3706	17.07.2022
(iii)	South Western Railway: SG/SWR/PTCC/AP-167/2173	01.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2425	01.07.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of South Western Railway with respect to details furnished vide above reference (ii) & (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of South Western 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 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.

Prateek
Assistant Director
for Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	With Annex-I & III
2.	PCSTE	South Western Railway, Rail Soudha, Gadag Road, Hubballi - 20	With Annex-II
3.	Chief Engineer (Construction)	APTransco, Vidyut Soudha, Vijaywada, Andhra Pradesh - 520004	For kind info

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के.वि.प्रा. केस सं. : AND-711	दिनांक: 24.08.2022
पी.टी.सी.सी. प्रस्ताव मौजूदा 400/220 केवी हिन्दुपुर उपकेन्द्र से मौजूदा 220/132/33 केवी गोल्लापुरम उपकेन्द्र (अनंतापुरम) तक 220 केवी डी.सी. लाइन (29.346 कि.मी.)	

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	एपीट्रांस्को: CE/Const/SE/PM/HUP-Gollapuram/PTCC proposals/D. No. 167/21	19.04.2021
(ii)	बीएसएनएल: SR-PTCC/SAP3706	17.07.2022
(iii)	दक्षिण पश्चिम रेलवे: SG/SWR/PTCC/AP-167/2173	01.10.2021
(iv)	रक्षा: B/46937/Sigs 7(b)/2425	01.07.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवम दक्षिण पश्चिम 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 ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवम दक्षिण पश्चिम रेलवे 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

Prateek

सहायक निदेशक

कृते मुख्य अभियंता

To,

1.	डिवीजनल इंजिनियर, (पीटीसीसी), दक्षिण क्षेत्र	बीएसएनएल, इंस्पेक्शन सर्किल, प्रथम तल, राज भवन एक्सचेंज, सं. 26, सरदार पटेल मार्ग, गिंडी, चेन्नई - 600032	अनुलग्नक I एवं III
2.	पी.सी.एस.टी.ई.	दक्षिण पश्चिम रेलवे, प्रधान मुख्य संकेत व दूरसंचार अभियंता का कार्यालय, रेल सौधा, गदग रोड, हुब्ली - 20	अनुलग्नक II
3.	मुख्य अभियंता (निर्माण)	एपीट्रांस्को, विद्युत् सौधा, विजयवाडा, आन्ध्र प्रदेश - 520004	जानकारी हेतु

CEA Case No.- AND-711

Case No: SAP101220213706		SSA: ANANTHAPUR				
Scale: 1 :50000						
Name of Power line: Erection of 220KV Twin Moose DC/SC line from Existing 400/220KV SS Hindupur to existing 220/132/33KV SS Gollapuram of length 29.346 km in Anantapuram District, AP – Reg						
Length: 29.346 km						
Soil Resistivity:30000 Ohm-cm						
HINDUPUR TELEPHONE EXCHANGE						
Sl :No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
1	Hindupur Telephone Exchange P65-DP6502	}			IV LESS THAN 430 V	
2	Hindupur Exchange P26					
3	Hindupur Telephone Exchange P24-DP2403					
4	Hindupur Exchange P45					
5	Hindupur Telephone Exchange P58-DP5802					
6	Hindupur Telephone Exchange P53					
7	Hindupur Telephone Exchange P36					
8	Hindupur Telephone Exchange P33					

MELAPURAM RSU TELEPHONE EXCHANGE

Sl :No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
1	Melapuram Telephone Exchange P32-DP3217				IV LESS THAN 430 V	

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.: AND-711 Name of the Power line: 220 kV DC line form existing 400/220 kV SS Hindupur to existing 220/110/33 kV SS Gollapuram in Anantapuram District			Map Scale : 1 cm=500 m Total Length : 29.346 km S.R. Value : 30,000 Ω -cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

SOUTH WESTERN RAIWAY Ref. No: SG/SWR/PTCC/AP-167/2173 Dated: 01.10.2021					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Gauribidanur - Devarapalle	0.4	0.0024	12760	31
2	Devarapalle - Hindupur	8.3	0.0031	7200	22
3	Hindupur - Malugur	10.4	0.0039	8360	33
4	Malugur - Chakarlappalli	7.5	0.0083	12700	105
5	Chakarlappalli - Rangepalli	0.4	0.0001	12760	1
6	Rangepalli - Penukonda	Out of parallelism			0

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

Tele : 23019746

AND-711

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

B/46937/Sigs 7(b)/2425

01 Jul 2021

Chief Engineer, Construction
Transmission Corporation of Andhra Pradesh Limited
Vidyut Soudha,
Vijayawada-520004, Andhra Pradesh

**ERECTION OF 220KV TWIN MOOSE DC LINE FROM 400KV HINDUPUR SS TO
220KV SS GOLLAPURAM IN ANANTAPUR DISTRICT-PTCC PROPOSAL-
FORWARDED**

1. Refer your letter No Lr. No. CE/Const/SE/PM/HUP-Gollapuram/PTCC proposals/D.No.167/21 dt 19 Apr 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(Signature)
(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/p PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information

