



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-710 / 425-427
PTCC proposal of 220 kV DC/SC line from existing 400/220 kV SS Hindupur to existing 220/132/33 kV SS Hindupur in Anantapuram District (15.60 km)

Reference:		
S. No.	Reference No.	Dated
(i)	APTransco: CE/Const/SE/PM/HUP-HUP/PTCC proposals/D. No. 172/21	20.01.2021
(ii)	BSNL: SR-PTCC/SAP3836/4	22.04.2022
(iii)	South Western Railway: SG/SWR/PTCC/AP-172/2176	01.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2424	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 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.

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२६.०५.२०२२
Director

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

File No.CEA-PS-17-11(14)/22/2022-PCD Division



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आजादी का
अमृत महोत्सव

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

के.वि.प्रा. केस सं. : AND-710
पी.टी.सी.सी. प्रस्ताव 220 kV DC/SC line from existing 400/220 kV SS Hindupur to existing 220/132/33 kV SS Hindupur in Anantapuram District (15.60 km)

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	APTransco: CE/Const/SE/PM/HUP-HUP/PTCC proposals/D. No. 172/21	20.01.2021
(ii)	BSNL: SR-PTCC/SAP3836/4	22.04.2022
(iii)	South Western Railway: SG/SWR/PTCC/AP-172/2176	01.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2424	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: उपरोक्त अनुसार

राजेश्वर प्रताप सिंह
28.05.2022
निदेशक

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

Annex-I

Case No: AND-710		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 Hindupur of length 15.60 km in Anantapuram District, AP - Reg						
Length: 15.60 Km						
Average SR value: 30000 ohm cm						
Sl :No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
I	Hindupur Exchange	}				
	Exchange to P46 to DP4601					
II	Parigi Exchange					
	Exchange to P 23 to DP2302					
	Exchange to P 24 to DP2405			IV less than 430 V		
III	Meelapuram Exchange					
	Exchange to P 321 to DP3217					
	Exchange to P 323 to DP3234					

Preteek

प्रतीक श्रीवास्तव / PREETEK SHRIWASTAVA
 सहायक निबंधक-II / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE - II

CEA Case No.: AND-710 Name of the Power line: 220 kV DC/SC line from existing 400/220 kV SS Hindupur to existing 220/132/33 kV SS Hindupur in Anantapuram District		Map Scale : 1 cm=500 m Total Length : 15.60 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 RAILWAY Ref No: SG/SWR/PTCC/AP-172/2176 Dated: 01.10.2021					
Affected Blocks & Telecom Circuits Details					
1	Devarapalle - Hindupur	Out of parallelism			0
2	Hindupur - Malugur	6.2	0.0038	10000	38
3	Malugur - Chakarlapalli	9.1	0.0073	10000	73
4	Chakarlapalli - Rangepalli	Out of parallelism			0
5	Rangepalli - Penukonda				0

Prateek

प्रतीक श्रीकांत/PRATEEK SHRIKANTH
 सहायक 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

Tale : 23019746

AND-710 Annex-III
Directorate General of Signals
Signals - 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

01 Jul 2021

B/46937/Sigs 7(b)/2424

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

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

1. Refer your letter No Lr. No. CE/Const/SE/PM/HUP-HUP/PTCC proposals/D.No.172/21 dt 20 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.

(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

13/2/21
2/11

at 2:25
recd of GSO
11.06.21

784
13-9-21