

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/AND-660/249-251

Date: 19.06.2020

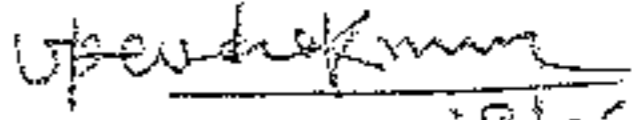
Subject: PTCC proposal of 220 kV DC line from 400/220 kV sub-station Rachagunneri (Chittoor district) to proposed 220/132 kV sub-station at Naidupeta in Nellore district-regd.

- Ref.:**
- | | | |
|-------|---|-------------------|
| (i) | TCAPL Ref. No. CE/Const/SE/PM/CPT330/DE-3/PM/220kV
Naidupeta Line/D.No.87/2017 | Dated: 02.03.2017 |
| (ii) | BSNL Ref. No. SR-PTCC/SAP/2359/09 | Dated: 22.04.2019 |
| (iii) | South Central Railway Ref. No.SG.85/4/3/PTCC/SCRAP201657 RTD | Dated: 27.03.2017 |
| (iv) | Defense Ref. No. B/46937/Sigs 7(b)/531 | Dated: 24.04.2017 |

The PTCC proposal submitted vide ref. (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 references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above.


19/06/2020
(Upendra Kumar)
Chief Engineer

To,
The Divisional Engineer (PTCC), Southern Zone, BSNL,
O/o DET (PTCC), Inspection Circle,
1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032

Copy to:

1. SSTE/TELE/HQ, South Central Railway, Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad-500071. (Annex-II only)
2. Chief Engineer, Construction, Transmission Corporation of Andhra Pradesh Limited, Vidyut Soudha, Hyderabad-500082.

Case No. SRPTCC/SAP/2359

SSA :

Nellore Tirupathi

Scale: 1:50000

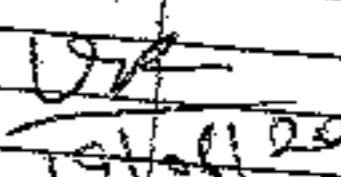
Name of Power line: 220 KV DC Line from 400/220 KV SS Rachaguneri (Chittoor District) to proposed 220/132 KV SS at Naidupeta (Nellore Dist) - LF comments.

Length: 29.76 KMs

Average SR value: 25,000 Am

Type of Cable: PIJF

No	Name of telecom line	LOP in KMs	MC in Ohms	FG in Amps	IV in Volts	Safe Separation Distance
	Nellore SSA					
A	Chillakuru (Kottharu) Exchange					
A1	Exchange to Chillapuru	}			IV less than 430V	
A2	Exchange to Pella kru					
A3	Exchange to Kothum					
	Tirupathi SSA					
A	Lanco Exchange					
A2	Exchange to SRKC Road	}			IV less than 430V	
A3	Exchange to Industrial Estate					
A4	Exchange to Towards yerpeddy					
B	Yerpeddy Exchange					
B1	Exchange to Junction Road	}			Out of parallelism	
B2	Exchange to SRKC Road					
B3	Exchange to TPTY Road					
B4	Exchange to VKG Road					
C	SRNC Exchange					
C1	Exchange to Housing Board	}			IV less than 430V	
C2	Exchange to Babu Agrabaram					
C3	Exchange to Bypass Road					
C4	Exchange to Market Yard					
D	Srikalahasthi Exchange					
D1	Exchange to MRO Office	}			IV less than 430V	
D2	Exchange to Bhaskar Peta					
D3	Exchange to M G Street					
D4	Exchange to Pct Road					


 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Case No.: AND-860

ANNEXURE - II

Name of the Power Line: 220 kV DC line from 400/220 kV sub-station Rachaguneri (Chittoor district) to proposed 220/132 kV sub-station at Naidupeta in Nellore district.

Map Scale : 1 cm = 500 m.
Route Length : 29.76 km
Soil Resistivity : 25,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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SOUTH CENTRAL RAILWAY		DATED: 27-03-2017			
Ref. No: SG.85/4/3/PTCC/SCRAP201657 RTD					
Affected Blocks & Telecom Circuits Details					
1	Yerpedu(YPD)-Rachaguneri(RCG)				
2	Rachaguneri(RCG)-Srikalahasti(KHT)	3.4	0.0018	13250	24
3	Srikalahasti(KHT)-Yellakuru(YLK)	7.3	0.0079	8233	65
4	Yellakuru(YLK)-Venkatagiri(VKI)				
			Out of parallelism		0

DK
19/3/20
मुख्य अभियंता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

AP-660 (Armed Forces - III)

General Manager of Signals
Signals
Central Post Branch
Department of Mod (Army)
New Delhi, India - 110011

1. Mr. [Name] [Address] [City] [State] [Pin Code]
2. Mr. [Name] [Address] [City] [State] [Pin Code]

**ERECTION OF 220KV DC LINE FROM 400/220KV SS RACHAGUNNERI
(CHITTOOR DISTRICT) TO PROPOSED 220/132 V SUBSTATION AT
NAIDUPETA (NELLORE DISTRICT) IN NELLORE DISTRICT**

1. Ref your letter No. [Number] dated [Date] regarding [Subject].
2. No Objection Certificate (NOC) is accorded based on inputs provided and the sheets received under your letter mentioned above.
3. Documents alongwith map sheets in original are retained herewith for your further necessary action.

[Signature]
[Name]
[Designation]

Encls: [Number] as above

Copy to:

The Director (RCC), [City]
Public Construction Development Division
[Address]
New Delhi - 110011

[Text]