



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-688/401-403

Date: 16.08.2020


Subject: PTCC proposal of 400 kV QMDC LILO (CKT-I) line from the existing 400 kV QMDC Krishnapatnam – Chittoor line to proposed 400 kV Rachaganneri Sub-Station -regd.

- Ref. : (i) AP TRANSCO Ref. No. CE/400 kV Const /SE /PM/D1-A2/KPT-Chittoor line/D.No: 624/2018 Dated: 23.10.2018
(ii) BSNL Ref. No. SR-PTCC/SAP/2267/03 Dated: 18.06.2019
(iii) South Central Railway Ref. No. SG.85/4/3/PTCC/SCRAP201921 RTD Dated: 28.05.2019
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1328 Dated: 21.01.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables and South Central Railway telecom circuits, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 5,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables and South Central Railway telecom circuits under single line to ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.


(Upendra Kumar)
Chief Engineer

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

Copy to:

1. General Manager (S&T), South Central Railway, Headquarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad – 500025 – (with Annexure-II
2. Chief Engineer, 400 kV Construction, AP TRANSCO, Vidyut Soudha, Gunadala, Vijaywada-520004.

Annex-I

Case No. SRPTCC/SAP/2267 CEA case No: AND-688			SSA : Tirupathi			
Scale: 1:50000						
Name of Power line: 400 KV QM DC LILO (CKT-I) Line from the existing 400 KV QMDC Krishnapatnam-Chittoor Line to proposed 400 KV Rachaganneri SS - LF comments.						
Length: 30.102 KMs			Type of Cable: PIJF			
Average SR value : 5000 Ω -cm						
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
	Tirupathy SSA					
A	Yerpeddy Exchange					
A1	Exchange to Srkh Road	}				
A2	Exchange to Srkh Road					
A3	Exchange to Tirupati Road					
A4	Exchange to Venkatagiri Road					
Out of Parallelism						
B	Lasco Exchange					
B1	Exchange to Rachagunnali Road	}				
B2	Exchange to SRKH Road					
B3	Exchange to TPTY Road					
IV less than 430 V						
C	Sriram Nagar Colony Exchange					
C1	Exchange to Housing board	}				
C2	Exchange to Agraharam					
C3	Exchange to Bypass Road					
C4	Exchange to Market Yard					
IV less than 430 V						
D	Srikalahasthi Exchange					
D1	Exchange to MRO Office Road	}				
D2	Exchange to Bahudurpeta					
D3	Exchange to M.G.Street					
D4	Exchange to BusStand					
IV less than 430 V						

Prateek

PRATEEK SRINASTAVA
 प्रतीक श्रीवास्तव / Prateek Srinastava
 सहायक निदेशक-II / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण - C.E.A.
 विद्युत नज्वालिया / Ministry of Power
 भारत सरकार
 नई दिल्ली

Case No.: AND-688

Name of the Power line:

400 kV QMDC LILO (CKT-I) line from the existing 400 kV QMDC
Krishnapatnam - Chittoor line to proposed 400 kV Rachaganneri
Sub-Station

Map Scale : 1cm=500m

Total Length : 30.102 Km.

S.R. Value : 5,000 Ohms-cm

S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in
South Central Railway					
Ref. No. SG.85/4/3/PTCC/SCRAP201921 RTD dated 28.05.2019					
					0
1	Renigunta Jn (RU) - Yerpedu (YPD)		Out of Parallelism		1
2	Yerpedu (YPD) - Rachaganneri (RCG)	0.3	0.0001	12000	17
3	Rachaganneri (RCG) - Srikalahasti (KHT)	5.8	0.0014	12000	20
4	Srikalahasti (KHT) - Yellakuru (YLK)	2.9	0.002	10000	0
5	Yellakuru (YLK) - Venkatagiri (VKI)	Outside IV Calculation Consideration Zone			0

Prateek
 प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 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

Tele : 23019746

~~Annex - III AND~~

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

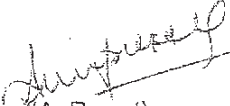
B/46937/Sigs 7(b)/1328/

3 Jan 2019

Chief Engineer, 400KV Construction
Transmission Corporation of Andhra Pradesh Ltd
AP TRANSCO, Vidyut Soudha
Gunadala, Vijayawada - 520008

**ERECTION OF 400 KV QMDC LILO LINE FROM THE EXISTING 400KV QMDC
KRISHNAPATNAM-CHITTOOR LINE TO PROPOSED 400KV RACHAGANNERI SUB-
STATION (ZONE-5) ON TURNKEY BASIS-PTCC PROPOSALS**

1. Ref your letter No Lr. No. CE/400kVConst/SE/PM/D1-A2/KPT-Chittoor line/D.No.624/2018 dt 23 Oct 2018 (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)
Maj
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.

