



भारत सरकार

Government of India
विद्युत मंत्रालय

Ministry of Power
केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority
पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/AND-674/744-45

Date: 24.06.2019

The Divisional Engineer Telecom,
PTCC, T&D circle, BSNL,
No.26, 1st floor, Raj Bhavan Exchange,
Sardar Patel Road,
Guindy, Chennai-600032

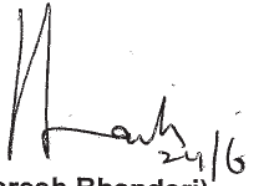
Subject: Induced Voltage calculation in respect of PTCC proposal for 220 kV DC LILO line from 220 kV DC Podili – Nellore line to proposed 220/132 kV SS Atmakuru

Reference: i) BSNL letter no. SR-PTCC/SAP-2108/05 dated 16.08.2018
ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRAP201907 RC dated 25.02.2019
iii) Defense letter no. B/46937/Sigs 7(b)/812 dated 05.02.2018

Sir,
The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 10,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground (SLG) fault condition have been computed and are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide Ref. (ii) above, South Central Railway have issued No Objection Certificate (NOC). Vide Ref. (iii) above, the Defense authority have issued No Objection Certificate (NOC) (a copy is enclosed at Annex-II).

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

Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

Chief Engineer, Construction, APTRANSCO, Vidhut Soudha, Vijayawada -520004

MIC

CEA case No.: AND-674

Case No. SRPTCC/SAP/2108		SSA : Nellore				
Scale: 1 : 50000						
Name of Power line: :- 220 KV DC LILO Line from Nellore-Podili DC Line to proposed 220/132 KV SS at Atmakur in Nellore Dist - LF comments .						
Length: 3.904 KMs		Map Scale: 1 cm = 500 m		Type of Cable: PIJF		
SR value: 10,000 Ω -cm						
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
	Atmakur Exchange					
1	Exchange to BSR Centre	}	IV	LESS	THAN	430V
2	Exchange to Park Street					
3	Exchange J.R.Pet					
4	Exchange to L.R. Palli					
				NARESH BHANDARI / NARESH BHANDARI प्रमुख अभियन्ता / Chief Engineer केन्द्रीय विद्युत प्राधिकरण / C.E. विद्युत मंत्रालय / Ministry of Power भारत सरकार / Govt. of India नई दिल्ली / New Delhi-66		

Annex-LL
NOC

AND-674

Tele : 23019746

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

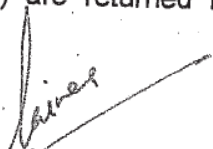
B/46937/Sigs 7(b)/812/

05 Feb 2018

Chief Engineer (Construction),
Transmission Corporation of Andhra Pradesh Ltd
Vidyut soudha
Vijayawada - 52d0004

**ERECTION OF 220KV DC LILO LINE BY MAKING LILO OF
NELLORE - PODILI DOUBLE CIRCUIT LINE TO PROPOSED
220/132KV SUBSTATION AT ATMAKURU IN NELLORE DISTRICT**

1. Reference your letter No CE/Const/SE-PM/CPT 330/DE-3/220kv Atmakuru Line/D No. 680/2017 dt 11 Dec 2017.
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.


(Mainee Sharma)
Lt Col
GSO 1 (Comn)
for SO-in-C

Copy to :-

Director (PTCC), CEA.
Load Despatch & Comn Division, PTCC
NREB Building, Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016