



सत्यमेव जयते

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/TNG-86/94-95

Date: 04.02.2020

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

Subject: Induced voltage calculation in respect of 220 kV LJLO line from 220 kV Nirmal-Renjal line to the proposed 220/11 kV Sub-station at Mukpal in Nizamabad District.

Ref. : (i) TSTRANSCO Lr. No. ED(LIS)/SE(LI)/DE(LIS)-
2/ADE2/Mukpal/D.No.446/19 Dated: 10.05.2019
(ii) BSNL Ref. No. SR-PTCC/STS/2444/03 Dated: 16.08.2019
(iii) South Central Railway Ref. No. SG.85/4/3/PTCC/SCRTS201938 RC Dated: 30.05.2019
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1655 Dated: 22.07.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables as per details furnished vide ref. (ii) has been examined. The Soil Resistivity value has been taken as 50,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. South Central Railway has issued No objection vide above ref. (iii). In addition, Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

Encl.: As above.

Upendra Kumar
04.02.2020

(Upendra Kumar)
Chief Engineer, PCD

n/c

Copy to:

1. Executive Director, Lift Irrigation Schemes, TSTRANSCO, Vidyut Soudha, Hyderabad-500082.

Annex-I

CEA Case NO: TNG-86

Case No. SRPTCC/STS/2444		SSA : Nizamabad		S.R. : 50,000 sqm		
Scale: 1 : 50000						
Name of Power line: 220 KV DC Line from the proposed 220 KV SS Nirmal – Renjal Line to proposed 220/11 KV Mukpal SS in Nizamabad Dist - LF comments .						
Length: 0.338 KMs				Type of Cable: PIJF		
Average SR value :						
No.	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
	Kissannagar Exchange					
1	Exchange to Mukpal	IV	less	than	430 V	

Upendra Kumar
 04.02.2022
 मुख्य अभियंता / Chief Engineer
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत विभाग / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

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)/1655

22 Jul 2019

Executive Director,
Lift Irrigation Schemes,
Transmission Corporation of Telangana Limited
TSTRANSCO
Vidyut Soudha,
Hyderabad - 500 082

**ERECTION OF 220KV LILO LINE (0.338KM) FROM 220KV NIRMAL-RENJAL LINE TO
PROPOSED 220/11KV MUKPAL SUBSTATION IN NIZAMABAD DISTRICT-PTCC
PROPOSALS-FORWARDED-REGARDING**

1. Ref your letter No Lr. No. ED(LIS)/SE(LI)/DE(LIS)-2/ADE2/Mukpal/D.No. 446/19 dt 10 May 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
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.