



Date: 27.09.2019

Government of India विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No./CEA/PCD/PTCC/TNG-89/974-9.76

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

Induced Voltage Calculation in respect of PTCC proposal for 220 kV LILO line from existing 220 kV Subject:

line KTS - Manuguru-I T.No.-82 to proposed 220/11 kV B.G. Kothur SS

i) BSNL letter no. SR-PTCC/STS-2441/07 dated 07.08.2019 Reference:

ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201942 RTD dated 31.05.2019

iii) Defence letter no. B/46937/Sigs 7(b)/1623 dated 24.06.2019

Sir,

The instant PTCC proposal has been examined. The low frequency induction on Block & Telecom circuits of South Central Railway with respect to details furnished vide above references have been computed. The Soil Resistivity (SR) value has been taken as 20,000 Ohm-cm. The voltages likely to be induced on paralleling Block & Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide ref. (i) above, BSNL have informed that there are no telecom lines/cables or assets within paralleling distance of 8 km from proposed power line. Vide ref. (iii) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-II). Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above

चैंद <u>ऋष थिंद</u> 27.04.19 (R. P. Singh) Director, PTCC

Copy to:

1) GM (S&T), South Central Railway, Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad, Telangana – 500025 (Annex – I only)

Chief Engineer, 400 kV, TSTRANSCO, Vidyut Soudha, Hyderabad - 500082

ANNEXURE - I

in Amps.

Case No.: TNG-89 Name of the Power line: 220 kV LILO line from existing 220 kV line KTS – Manuguru-I T.No82 to proposed 220/11 kV B.G. Kothur SS			Map Scale Total Length Soil Resistivity		: 1cm=500mts : 0.515 Km. : 20000 ohm-cm		
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current	I.V in Volts.		

	South Central Railway letter no. SG.85/4/3/P	TCC/SCRTS201942	RTD dated 3	1.05.2019	r
1	Pandurangapuram – Aswapuram	0.15	0.0001	10000	1
2	Aswapuram - Manuguru	0.3	0.0001	10000	1

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Annex-ITNG89

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)/1623

24 Jun 2019

The Chief Engineer, Transmission Corporation of Telangana Limited 400kV, TSTRANSCO Vidyut Soudha, Hyderabad – 500 082

ERECTION SITA RAMA LIFT IRRIGATION SCHEME-ERECTION OF LILO OF ONE CIRCUIT OF 220KV KTPS-MANUGURU LINE TO PROPOSED 220/11KV B.G. KOTHUR SUBSTATION AT BHADRADRI, KOTHAGUDEM DISTRICT-0.515KM-PTCC PROPOSALS-FORWARDED-REGARDING

- 1. Ref your letter No Lr. No. CE/400kV/SE-I/D2-A3/Sita Rama LIS/D.No. 79/19 dt 30 Apr 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.