



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-88/1042=1044

Date : 30.10.2019

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

Subject: Induced Voltage Calculation in respect of PTCC proposal for 220 kV LILO line from existing 220 kV line KTPS-V – Lower Sileru-II T.No.-276,277 to proposed 220/11 kV B.G. Kothur SS

Reference: i) BSNL letter no. SR-PTCC/STS-2442/08 dated 29.07.2019
ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201941 RTD dated 31.05.2019
iii) Defence letter no. B/46937/Sigs 7(b)/1624 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 30,000 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

उप-इंजीनियर
30/10/19
(Upendra Kumar)
Chief Engineer

Copy to:

- 1) GM (S&T), South Central Railway, Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad, Telangana – 500025 (Annex – I only)
- 2) Chief Engineer, 400 kV, TSTRANSCO, Vidyut Soudha, Hyderabad - 500082

M/C

ANNEXURE - I

Case No.: TNG-88 Name of the Power line: 220 kV LILO line from existing 220 kV line KTPS-V – Lower Sileru-II T.No.-276,277 to proposed 220/11 kV B.G. Kothur SS		Map Scale : 1cm=500mts Total Length : 16.681 Km. Soil Resistivity : 30000 ohm-cm			
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201941 RTD dated 31.05.2019					
1	Gajulagudem – Pandurangapuram (PGP)	2.2	0.0007	8500	6
2	Pandurangapuram (PGP) – Aswapuram (AWM)	12.7	0.0049	8500	42
3	Aswapuram (AWM) – Manuguru (MUGR)	OUT OF PARALLELISM			0

अरुण कुमार
30/5/19

मुख्य अभियंता / Chief Engineer
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / 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)/1624

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 V-LOWER SILERU-II LINE TO PROPOSED 220/11KV B.G. KOTHUR LI
SUBSTATION AT BHADRADRI, KOTHAGUDEM DISTRICT-16.681KMS-PTCC PROPOSALS-
FORWARDED-REGARDING**

1. Ref your letter No Lr. No. CE/400kV/SE-I/D2-A3/Sita Rama LIS/D.No. 79(a)/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.