



Date: 18.10.2019

भारत सरकार

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-87/1626-1022

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 DC line from proposed Transform Sun Energy Pvt Ltd pooling station to existing 400/220 kV SS Veltoor

- Reference: i) BSNL letter no. SR-PTCC/STS/2457/03 dated 31.07.2019
 - ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201936 RTD dated 30.05.2019

iii) Defence letter no. B/46937/Sigs 7(b)/1656 dated 07.08.2019

Sir.

The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL and 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 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered. Vide ref. (iii) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III). Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above

Director, PTCC

Copy to:

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

2) Chief Engineer, Construction, TSTRANSCO, Vidyut Soudha, Hyderabad - 500082

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ANNEXURE - II Map Scale Case No.: TNG-87 : 1cm=500mts Name of the Power line: 220 kV DC line from proposed Transform Total Length: 7.150 Km. Soil Resistivity: 25000 ohm-cm Sun Energy Pvt Ltd pooling station to existing 400/220 kV SS Veltoor Length of Mutual I.V Telecom. Details Parallelism Coupling S.No Effective jn in Km. in Ohms. Fault current Volts. in Amps. South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201936 RTD dated 30.05.2019 Kaukuntla (KQQ) - Wanaparthi (WPR)

अध्यक्त अमप (क्रि

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स्वर्धित प्रसाप सिष्ठ RAGHYENDRA PRATAP SINGH लिक्सक /Director केन्द्रीय विद्याल प्राधिकरण/C.E.A. विद्यात मंत्राहलय/Ministry of Power भारत सरकार/Govt of India नई दिल्ही/New Delm-68

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

B/46937/Sigs 7(b)/1656

6/ Aug 2019

The Chief Engineer, Construction
Transmission Corporation of Telangana Limited
Vidyut Soudha,
Hyderabad – 500 082

ERECTION OF 220KV DC LINE FROM SOLAR POWER PROJECT FED BY M/S TRANSFORM SUN ENERGY LTD TO 400/220KV VELTOOR SUBSTATION IN MAHBUBNAGAR DISTRICT-PTCC PROPOSALS-FORWARDED-REGARDING

- 1. Ref your letter No Lr. No. TST/CE(Const)/SE(Const-1)/DE-II/F.PTCC-Transform Solar/D.No. 182/19 dt 13 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.

(Anurag Mishra)

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

Divisio nal Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information