



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

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| CEA Case No.: RAJ-677 |
| PTCC proposal of 220 kV S/C transmission line on D/C tower of M/s Thar Surya 1 Private Limited (TS1PL) from 220/33 kV PSS of M/s Thar Surya 1 Private Limited (TS1PL) to 765/400/220 kV GSS of PGCIL at Jalalsar, Bikaner : 10.167 km |

| Reference: | | |
|------------|---|------------|
| S. No. | Reference No. | Dated |
| (i) | M/s Thar Surya 1 Pvt. Ltd: TSPL-1/AGCM/CEA/PTCC/006 | 14.09.2021 |
| (ii) | BSNL:DET/PTCC/ND/DV-9983/Raj-1336/2021-2022 | 02.11.2021 |
| (iii) | North Western Railway: SG/158/NWR/PTCC/847 | 28.09.2021 |

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Western Railway with respect to details furnished vide above references (ii) & (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of North Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I & Annexure-II respectively. The screening factors, as applicable, have been considered.

Telecommunication details from Defense are pending and the power authority has shown urgency for the charging of the line. In view of this take necessary action regarding issuance of Provisional PTCC approval for 220 kV S/C transmission line on D/C tower of M/s Thar Surya 1 Private Limited (TS1PL) from 220/33 kV PSS of M/s Thar Surya 1 Private Limited (TS1PL) to 765/400/220 kV GSS of PGCIL at Jalalsar, Bikaner.

Encl.:- As above.

Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.11.16 15:34:34 IST

Director

| To, | | | |
|-----|---|--|----------------------|
| 1. | Divisional Engineer (PTCC), Northern Zone | BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001. | Annexure-I only |
| 2. | Dy. CSTE/Tele | North Western Railway; Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017. | Annexure-II only |
| 3. | M/s Thar Surya 1 Pvt. Ltd | 12 th Floor, Crescent 1, Prestige Shantiniketan, ITPL Main Road, Hoodi, Whitefield, Bengaluru-560048. | Copy for information |

Case No.: (RAJ-677)

Name of the Power Line: Thar Surya 1 Pvt. Ltd. (TS1PL) Solar Power
Plant- Bikanert PD 220 KV S/C Line on
D/C Tower

Annexure I

Toposheet Scale : 1cm=500ms
Total Length : 10.167 Kms
S.R Value : 5,000 Ohm-cm

| Sl. No. | Name of Telecom Line | LOP in Kms | MC in Ohms | Fault Current (Amps) | IV in Volts |
|---------|----------------------|------------|------------|----------------------|-------------|
|---------|----------------------|------------|------------|----------------------|-------------|

BSNL

Reference No. DET/PTCC/ND/DV-9983/Raj-1336/2021-22 Dated:- 02.11.2021

| BSNL Details | | | | | |
|--------------|--|--|--|--|-------------------|
| 1 | Jaisar Local, 2 KM 10 Pair, 20 Pair, 50 Pair | | | | IV less than 430V |
| | | | | | |
| | | | | | |



मंजुष/TANUJ
फ. निदेशक-II/Asst. Director-I
राज्य विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

ANNEXURE - II

CEA Case No.: RAJ-677

Name of the Power Line: 220 kV S/C transmission line on D/C tower from Thar Surya 1 Private Limited (TS1PL) Solar Power Plant to Bikaner PS.

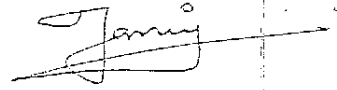
Map Scale : 1 cm = 500 m.
Route Length : 10.167 km
Soil Resistivity : 5,000 Ohm-cm

| S.No. | Telecom Details | Length of Parallelism (in km) | Mutual Coupling (Ohms) | Fault Current (Amps) | Induced Voltage (Volts) |
|-------|-----------------|-------------------------------|------------------------|----------------------|-------------------------|
|-------|-----------------|-------------------------------|------------------------|----------------------|-------------------------|

Ref. No: North Western Railway: SG/158/NWR/PTCC/847 Dated: 28.09.2021

Affected Blocks & Telecom Circuits Details

| S.No. | Telecom Details | Length of Parallelism (in km) | Mutual Coupling (Ohms) | Fault Current (Amps) | Induced Voltage (Volts) |
|-------|-----------------------|-------------------------------|------------------------|----------------------|-------------------------|
| 1 | Kanasar to Jamsar | 1.3 | 0.0003 | 9868 | 03 |
| 2 | Jamsar to Jagdeowala | 1.1 | 0.0003 | 9252 | 03 |
| 3 | Jagdeowala to Dhirera | Outside IV Consideration Zone | | | 00 |



तनुज/TANUJ
 सहायक निदेशक-II/Asst. Director-II
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
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