



सत्यमेव जयते

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

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| CEA Case No. : TN-765   |                                    |            |
|---|------------------------------------|------------|
| Induced Voltage (IV) Calculation for PTCC proposal for 230 kV S/C line on D/C towers from proposed 230/33 kV Senapathipalayan PSS of M/s TATA Power Renewable Energy Limited to 400/230 kV Karur PS (Length: 17.751 km) |                                    |            |
| S. No   | Reference No.                      | Dated      |
| (i)   | TATA/198MW/230KV-SC EHT/01         | 12.08.2024 |
| (ii)  | BSNL: SR-PTCC/STN 6173/06          | 05.10.2024 |
| (iii)   | Southern Railway: W.384/3/6/51(TN) | 16.09.2024 |
| (iv)  | Defense: B/46937/Sigs 7(b)/4120    | 15.10.2024 |

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide reference (ii) has stated that “ No telecom lines/ cables or assets are existing or proposed within 6 months in paralleling distance of 8 kms on either side of the power line”. GM (S&T), Southern Railway vide reference (iii) and DG Signals, MoD vide reference (iv) have issued their No Objection certificate (NOC) for charging of the line.

EPR zone for the proposed substation is mentioned below:

| Name of the proposed Substation   | Half diagonal distance , D/2 (mts) | Fault Current I (KA) | Resistance of Earth Mat, R (ohms) | d (mts) at 430 V | d (mts) at 650 V | d (mts) at 7kV | d (mts) at 10kV |
|---|------------------------------------|----------------------|-----------------------------------|------------------|------------------|----------------|-----------------|
| 230/33 kV Senapathipalayan PSS of M/s TATA Power Renewable Energy Limited | 86.31                              | 39.82                | 0.625                             | 4909             | 3218             | 221            | 128             |

As per the details submitted by BSNL vide reference (ii) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111<sup>th</sup> and 112<sup>th</sup> CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

Encl.: As above

**Chief Engineer**

**To,**

|    |   |   |                 |
|----|---|---|-----------------|
| 1. | Divisional Engineer (PTCC), Southern Zone | O/o Chief General Manager, Core Network Transmission- South, No.11, Link Road, Ganapathy Colony, Guindy Industrial Estate, Guindy, Chennai.600 032. |                 |
| 2. | M/s TATA Power Renewable Energy Limited   | Corporate Centre, A Block, 34 Sant Tukaram Road, Carnac Bunder, Mumbai – 400 009  | For information |

Directorate General of Signals  
Signals 7  
General Staff Branch **TN-765**  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi - 110011

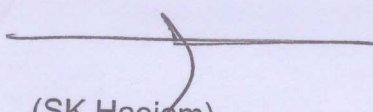
B/46937/Sigs 7(b)/4120/

15 Oct 2024

Tata Power Renewable Energy Limited  
C/o The Tata Power Company Limited  
Corporate Centre: A Block, 34 Sant Tukaram Road  
Carnac Bunder, Mumbai-400 009

**PTCC PROPOSAL FOR 230KV SC OH LINE ON DC TOWER BY USING AL-59 MOOSE CONDUCTOR AND 7/2.40 MM DIA METER + 24 FIBER OPGW CABLE FROM 230/33 KV TATA POOLING SUBSTATIONS AT SENAPATHIPALAYAM VILLAGE, KANGAYAM TK, TIRUPUR DIST TO 400/230 KV KARUR PS NAME OF THE APPLICATIONS - M/S TATA POWER RENEWABLE ENERGY LTD**

1. Refer your letter No TATA/198MW/230KV-SC EHT/01 dt 12 Aug 2024 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

  
(SK Haojam)  
Lieutenant Colonel  
General Staff Officer Grade 1 (Communication)  
for Additional Director General (Telecommunication)

**Enclosures** : As above

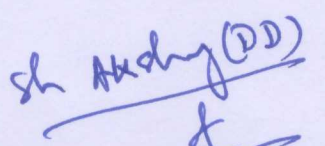
**Copy to :-**

✓ Chief Engineer, PSCD Division  
Central Electricity Authority  
Room No 702 (North Wing)  
Sewa Bhawan, R.K. Puram, Sector-1  
New Delhi-110066

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- for information  
}

The DET(PTCC), Northern Zone  
O/o PGM (North), QA & Inspection Circle,  
Bharat Sanchar Nigam Limited  
D-Tax Building, Eastern Court, Janpath  
New Delhi-110001

Central Electricity Authority  
PSCD Division  
Diary No. 1343  
Date 25-10-24

  
28/10

**Annexure**

Time line for various steps involved in PTCC clearance are specified in Appendix X to Chapter- I of PTCC Manual 2010 and further decision in CLPTCC meetings are given below. The relevant part is reproduced below:

**For approval of power lines above 132 kV:**

- |     |  |            |
|-----|--|------------|
| (a) | For furnishing telecom details by<br>P&T/Railways/Army.  | 8/6* weeks |
| (b) | Scrutinizing the details, preparing<br>additional copies and forwarding to<br>Joint Secretary Power <i>by DET BSNL</i>       | 1 weeks    |
| (c) | Furnishing Induced Voltage (IV)<br>calculation by Joint Secretary Power &<br>endorsing copies to all concerned <i>by CEA</i> | 6/3* weeks |
| (d) | Furnishing recommendations by Railways/ Army   | 2 weeks    |
| (e) | Final examination and issue of certificate <i>by DET BSNL</i>  | 2/1* weeks |

\* Revised time line for power lines related to RE generation, traction circuits and for all power lines having length less than 5 km as per the decision taken in 107<sup>th</sup> CLPTCC meeting.