34-3/33/2026-TRANS(MOP)

भारत सरकार / Government of India

विद्युत मंत्रालय / Ministry of Power

(पारेषण प्रभाग / Transmission Division)

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श्रम शक्ति भवन, रफी मार्ग, नई दिल्ली- 110001
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001

दिनांक: 21 अप्रैल, 2026

बैठक के कार्यवृत/ Minutes of Meeting

Sub: Meeting to discuss role of PTCC regarding delay in transmission line projects of PGCIL – reg.

The undersigned is directed to forward herewith the Minutes of Meeting held on 01.04.2026 at 06:00 PM under the chair of Secretary (Power) on the aforementioned subject for Information and further necessary action.

Encl: As above

21/4/26

(Naorem Indrakumar Singh)
Under Secretary to the Govt. of India
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To,

1. Chairperson, CEA, New Delhi.
2. Secretary (Telecom), DoT, M/o Communications, New Delhi
3. CMD, POWERGRID, Gurugram, Haryana
4. Addl. Member (Telecom), Railway Board, New Delhi

Copy to:

1. Sr.PPS/PPS/PS to Secretary (Power), Additional Secretary (Transmission), Director (Trans-I), M/o Power
2. Member (Power System), CEA, New Delhi
3. Director (Telecom), Railway Board, New Delhi
4. CGM (QA & INSP), BSNL, New Delhi
5. DE (PTCC), North Zone, BSNL, New Delhi

GOVERNMENT OF INDIA
MINISTRY OF POWER
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Minutes of Meeting

Venue: NPMC, MoP
Date of meeting: Wednesday, 01st April 2026
Time of Meeting: 06.00 PM.
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Sub: Meeting to discuss role of PTCC regarding delay in transmission line projects of PGCIL – reg.

A meeting was held under the chairmanship of Secretary (Power) on the aforementioned subject. The list of participants is at **Annexure.**

2. CE (PCD Division), CEA delivered a presentation on the PTCC clearance process, outlining its role as a coordination mechanism in the process. CE CEA quoted **Section 160 (Electricity Act, 2003)** as per which operators must take precautions to ensure their electrical systems do not interfere with telecom or signaling lines (including by induction).

The key stakeholders involved in the PTCC process are Transmission Service Providers (TSP), State Transmission Utilities (STUs), DoT/BSNL, Indian Railways, Ministry of Defence, and CEA. The presentation also covered the technical impact of power lines on telecom infrastructure, such as electromagnetic induction, induced voltage, risks to railway signaling systems and BSNL assets, and the concept of Earth Potential Rise (EPR).

3. Director (Operations), POWERGRID stated that, except for one instance in the Khetri – Narela line, no PTCC protection recommendations have been received in the past decade. He stated that transmission lines typically cross railway tracks at 70–90 degrees, minimizing induction risks. Adequate protection measures, are taken including but not limited to tower footing resistance maintained at 10–20 ohms and substation earth grid resistance below 1 ohm. POWERGRID expressed the view that the impact of induced voltage is negligible and, accordingly, PTCC clearance may not be required.

4. Chief Engineer, CEA stated that PTCC studies are carried out to calculate induced voltage (IV) under fault conditions and not under normal conditions, where high fault currents produce strong magnetic fields, leading to dominant inductive coupling. Even though power lines cross telecom lines nearly perpendicularly, the lines run parallel for some distance, creating a risk of electromagnetic induction. Therefore, induced voltage may still be significant from both safety and regulatory compliance perspectives.

5. Representative of BSNL stated that most of their network is on Optical Fibre Cable. However, legacy copper cables continue to exist, particularly in remote and rural areas. BSNL requested that the existing practice of issuance of PTCC Clearance i.e. Route Approval Certificate (RAC) by BSNL may be discontinued. BSNL proposed

that such clearances may henceforth be issued by CEA, with requisite telecom details being obtained directly from the concerned BSNL field units.

Further it was intimated that the network of Private Telecom Companies viz. Airtel, Jio, Idea-Vodafone etc. is on Optical Fibre Cable (OFC), hence there is no need to seek their NoC.

6. Representative of Indian Railways stated that more than 50% of their communication infrastructure still relies on quad (copper) cables, particularly for signalling and control systems. These systems are sensitive to induced voltage and remain vulnerable to electromagnetic interference from nearby power transmission lines, especially under fault conditions. Appropriate safety measures are implemented in the electric traction Overhead Equipment (OHE) to safeguard against the induced voltages in the copper cables associated with the signalling and control system.

7. Member (Power System), CEA, emphasized that the PTCC process remains important and necessary for ensuring safety and coordination between power and telecommunication systems. Hence equal importance should be given to process simplification and rationalization of timelines to improve efficiency and ease of implementation. An online portal under NSWS for processing PTCC clearances, similar to those for Sec 68 & 164, can enhance transparency and avoid delays.

8. Chairperson, CEA, emphasized that PTCC process for ensuring the safe coexistence of power and telecommunication systems. However, there is a need to streamline the process, rationalize timelines, and improve overall workflow efficiency. The proposal submitted by PGCIL regarding self-certification for telecom safety may be examined further.

9. During the discussion, it was observed that Telecom Network is affected due to laying of EHV Transmission lines at few places only, which can be taken care by carrying out precautionary arrangements. PTCC clearance is not relevant at such places.

10. After deliberations the following was decided:

There shall be no requirement of PTCC Clearance w.e.f. 1st July 2026. Meanwhile, CEA may issue technical guidelines as may be required.

The meeting ended with a vote of thanks to chair.

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Annexure

List of Participants

Ministry of Power

1. Shri Pankaj Aggarwal, Secretary ---- In the Chair
2. Shri D. Saibaba, Additional Secretary (Transmission)
3. Shri Rahul Raj, Director (Trans-I)
4. Shri Naorem Indrakumar Singh, Under Secretary (Trans-I)

Central Electricity Authority

5. Shri Ghanshyam Prasad, Chairperson
6. Shri V.K. Singh, Member (PS)
7. Shri S.K. Maharana, Chief Engineer (PSCD&D)
8. Shri M. Srikanth Reddy, Dy. Director (PSCD&D)
9. Shri Arjun Agarwal, Asst. Director (PSCD&D)

PGCIL

10. Shri Naveen Srivastava, Director (Operation)
11. Shri Adarsh Srivastava, CGM (PSD)
12. Shri Rahul Singla, GM (PSD)

BSNL

13. Shri A. K. Mishra, DGM
14. Shri Jitendra Kumar, SDE
15. Shri Hemendra Pr. Duth, DE (PTCC)

Railway Board

16. Shri Gaurav Kumar, Director (Telecom)

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