



भारत सरकार / Government of India
विद्युत मंत्रालय / Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority
विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग
Power System Engineering & Technology Development Division

दिनांक /Date: 14.01.2025

To,

As per the Attached List

विषय: Revised Standard Operating Procedure for shifting of Transmission line for other infrastructure projects - reg.

महोदय/महोदया,

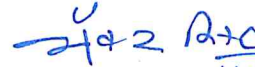
Several infrastructure projects of National Highways Authority of India (NHAI), Indian Railways, Airports Authorities, Border Roads Organization (BRO), Irrigation Departments, etc. are going on in various parts of the Country and many times, construction/development projects like roads, railways, airports, mines, flood banks/dam etc. come across existing/under construction transmission lines in their route alignment, leading to the need for shifting of such lines for construction of these projects. However, due to lack of coordination between the Infrastructure Developers and the transmission line Owner, the safety of the transmission lines was being often compromised during the construction and also construction of these infrastructure projects were delayed substantially.

2. To ensure smooth coordination between the Infrastructure Developers and the transmission line Owner, while developing infrastructure projects, CEA's vide its letter no. CEA-PS-14-771412022-PSETD Division dated 10.03.2023, circulated the Standard Operating Procedure (SOP) for shifting of Transmission lines by various Project Developers. However, during the processing of various proposals of diversion of transmission lines involving works by other Project Developers, it has

- been observed by the Ministry that there is a need to bring greater clarity in the definition/ parameters for considering a project as a project of National Importance or serving wider public interest.
3. In view of that to simplify and further streamline the said SOP, Ministry of Power vide its letter no. 34-3/18/2022-Trans (MoP) dated 07.01.2025 conveyed approval of the Hon'ble Minister of Power for **"Revised Standard Operating Procedure for shifting of Transmission line for other infrastructure projects"**.
4. A copy of the approved revised SOP for shifting of Transmission lines intersecting infrastructure projects is attached herewith that to be follow by all the stakeholders in addition to the existing regulatory provisions of Central Electricity Authority (CEA) and other Authorities such as Ministry of Environment & Forest, Defence, Airport Authority, NHAI, BRO, and Indian Railways etc., in true sprit to ensure smooth coordination between the Infrastructure Developers and the transmission line Owner, while developing infrastructure projects.

This issues with the approval of Competent Authority

भवदीय,


14/01/2025

(भंवर सिंह मीना/ Bhanwar Singh Meena)

निदेशक/ Director

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F.No. 34-3/18/2022-Trans (MoP)
Government of India
Ministry of Power
Transmission Division

Shram Shakti Bhawan, Rafi Marg, New Delhi- 110001

Dated: 07th January, 2025

To

Chairperson
Central Electricity Authority
Sewa Bhawan, R.K. Puram
New Delhi- 110066

Sub: Revised Standard Operating Procedure for shifting of Transmission line for other infrastructure projects — reg.

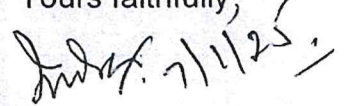
Sir,

I am directed to refer to CEA's letter no. CEA-PS-14-77/4/2022-PSETD Division dated 10.03.2023, therein, sharing the Standard Operating Procedure (SOP) for shifting of Transmission lines by various Project Developers, and to say that during the processing of various proposals of diversion of transmission lines involving works by other Project Developers, it has been observed by the Ministry that there is a need to bring greater clarity in the definition/ parameters for considering a project as a project of National Importance or serving wider public interest. A need was felt to simplify and further streamline the said SOP.

2. In this regard, the revised SOP for shifting of Transmission lines intersecting infrastructure projects is attached at Annexure for circulation with all the State Governments /UTs and all the Ministries / Departments concerned.

3. This issues with the approval of Minister of Power.

Yours faithfully,



(Naorem Indrakumar Singh)

Under Secretary to the Government of India

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STANDARD OPERATING PROCEDURE FOR SHIFTING OF TRANSMISSION LINES FOR INFRASTRUCTURE PROJECTS

Several projects relating to transport, energy, mining, irrigation, industry, real estate, utilities etc., of national importance and serving wider public interest are executed across the country. These projects include those undertaken by the National Highways Authority of India (NHAI), Indian Railways, Airports Authority of India, Border Roads Organization (BRO), and Irrigation Departments etc. (hereinafter referred to as "Project Developers"). These projects often intersect with existing or under-construction transmission lines, necessitating their relocation to facilitate project implementation. However, inadequate coordination between Project Developers and owners of transmission lines - Transmission Service Providers/ Transmission licensees - frequently compromises the safety of transmission lines during construction and leads to significant delays in project completion. To address these challenges and ensure compliance with existing regulatory provisions issued by the Central Electricity Authority (CEA) and other authorities such as the Ministry of Environment and Forests, Defence, Airport Authority, NHAI, BRO, and Indian Railways, a Standard Operating Procedure (SOP) is required for the systematic shifting of transmission lines.

2. Projects of National Importance or Serving Wider Public Interest

- (i) Projects monitored on the portals of Department for Promotion of Industry and Internal Trade (DPIIT) (Project Monitoring Group) or Ministry of Statistics and Program Implementation (MoSPI) shall be considered as projects of National Importance.
- (ii) The projects recommended by Central Ministries/ Departments concerned or State Governments shall be considered as projects serving wider public interest.
- (iii) Real Estate projects in accordance with the notified master plans or the layout plans approved by the local area authorities and recommended by the State Governments shall also be considered as projects serving wider public interest.

3. Accordingly, the attached Standard Operating Procedure (SOP) (**Annexure-I**) is issued for the relocation of Inter-State Transmission System (ISTS) lines during the development of infrastructure projects.

4. This SOP shall be applicable only for cases where the Project Developers provide alternate Right of Way (RoW) for shifting and not applicable for multi-circuiting on adjoining lines in the vicinity.

5. COO, CTUIL may refer cases, not covered under this SOP, to Ministry of Power, through Central Electricity Authority.

Detailed procedure to be followed by Project Developers and Owners of transmission lines for shifting of transmission lines

1) Application. Once a transmission line (overhead or underground) is erected, if a Project Developer plans to undertake any construction—such as roads, railway tracks, airports, dams, floodbanks, or additions/alterations to existing infrastructure—whether permanent or temporary, which may:

- Affect the safety, reliability, availability, or clearances of the transmission line, or
- Necessitate the shifting of all or part of the transmission line, the Project Developer or its contractor must:
 - (i) Provide written intimation to the owner of the affected transmission line and the COO CTUIL.
 - (ii) Submit a detailed proposal that includes:
 - Coordinates and scale drawings of the proposed work.
 - Finished levels of roads or rail tracks.
 - KMZ/KML files of the route.

2) Approval

- (i) For projects of National Importance or projects serving wider public interest, the approval of Central Government is not required. The Project Developer may directly liaison with the Owner for shifting of transmission line as required with mutual consent and duly following the requisite safety, regulatory and legal clearances.
- (ii) Upon receiving the request, the transmission line Owner will:
 - Examine compliance with applicable regulations and laws.
 - Assess technical feasibility, Right of Way (RoW) requirements, and compensation (if any) as per regulations.
 - Conduct a joint survey with the Project Developer to assess ground conditions and collect necessary information.
 - Respond with queries or concurrence within 30 days of receiving the proposal.

(iii) The Project Developer must provide clarifications to any queries raised by the transmission line Owner within 15 days. Subsequent communications between the parties must be addressed within 7 days to avoid delays.

(iv) The Project Developer may either execute the shifting or alteration of the transmission line independently or request the transmission line Owner to carry out the work.

3) If shifting or alteration work is executed by the Project Developer:

(i) The Project Developer shall submit all design documents and drawings relevant to the construction or alteration of the transmission line to the Owner. The Owner shall review the documents, raise queries (if any), and provide final approval within three weeks of receipt. If necessary, the Owner may share existing design documents and drawings with the Project Developer. No work related to the shifting or alteration of the transmission line shall commence without the Owner's final approval.

(ii) The Project Developer shall bear all costs associated with the shifting or alteration of the transmission line.

(iii) The Project Developer shall also be responsible for obtaining necessary permissions, such as:

- Right of Way (RoW) compensation.
- Forest clearances.
- Wildlife clearances, among others.

(iv) Both parties may sign a Memorandum of Understanding (MoU) that outlines mutually agreed terms and conditions.

(v) The Project Developer shall pay supervision charges, as specified in this SOP, to the Owner prior to commencing the shifting or alteration work.

(vi) The Project Developer shall notify the Owner regarding the requirement for a shutdown of the existing transmission line to facilitate the shifting or alteration work. The work shall only begin after obtaining the necessary approvals from the Regional Power Committee (RPC) or State Load Despatch Centre (SLDC).

4) If shifting or alteration work is executed by the Owner of the transmission line:

(i) The transmission line Owner shall calculate the cost of shifting or altering the transmission line based on:

- The cost of materials used, after crediting the depreciated value of existing materials being replaced.
- Labour wages for executing the work.
- Statutory charges, supervision charges, and costs related to compensation for Right of Way (RoW), forest clearances, and wildlife clearances, as applicable.

The Owner shall communicate the cost estimate, along with the timeline required for the work, to the Project Developer within 30 days.

- (ii) The Project Developer shall deposit the estimated cost with the Owner within 30 days of receiving the cost estimate.
 - (iii) In case of a dispute regarding shifting of transmission line including the estimated cost or the responsibility for payment, the decision of COO, CTUIL shall be final.
 - (iv) Both parties may execute a Memorandum of Understanding (MoU) outlining mutually agreed terms and conditions.
 - (v) The Owner shall award the work of shifting or alteration through a tendering process. The price discovered through the tender, along with other applicable charges, shall be reimbursed by the Project Developer. In cases where the project is of small scale or urgent in nature, and the Owner opts to award the work on a rate contract or cost-plus basis, the Project Developer shall reimburse the actual cost incurred for the work.
- 5) Project Developer shall provide alternate RoW for shifting of Transmission line and ensure access to the Owner for carrying out maintenance activities.
 - 6) COO, CTUIL and Owner of the transmission line shall ensure that the new alignment of the shifted transmission line is a separate transmission corridor and not multi-circuiting on adjoining lines in the vicinity.
 - 7) The Project Developer shall make a payment of supervision charges at the following rates to the Owner of the transmission line:

Project	Shifting works by Project Developers	Shifting works by the Owner
Projects Under Bharatmala Pariyojana	2.5%	Not Applicable
Other Projects	2.5%	15%

[Note: Supervision charges may be calculated as the percentage of estimated cost of material (after crediting the depreciated cost of the existing material) & wages (exclusive of GST) and then GST may be separately applied on the supervision charges.]

- 8) The shifting/ alteration work shall normally be completed within eight (08) months from the date of first request of the Project Developer. In case the shifting project is of small size or the project is of urgent nature, a shorter time frame may be mutually decided between the Owner and the Project Developer.
- 9) The design, testing, construction and erection/ laying of transmission line shall be in accordance with Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations and relevant Standards (latest version). In addition, the applicable Regulations/ Guidelines/ Procedures of other Authorities such as NHAI, BRO, Indian Railways Airport, Defense, Forest, etc., shall be followed.
- 10) It shall be ensured that the reliability and safety of the transmission line is not compromised during or after the diversion work.
- 11) No cutting of soil within ten (10) meters from the tower structure of 110 kV and above voltage level shall be permitted without the written permission of the Owner of tower structure. For towers located on hill slope, extra precautions shall be taken to ensure that any cutting/ excavation on that hill does not compromise the safety and integrity of the tower structure and if it is expected that the stability of hill may be compromised due to cutting/ excavation work, even for distance beyond 10 m, the written permission of the Owner of tower structure shall be taken before commencing any such activity.
- 12) Before commencement of work, Project Developer shall ensure that the provisions of Regulations 60, 62, 63 and 79 of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023 (as amended up to date) are not contravened either during or after the aforesaid construction.

13) The request for requirement of shutdown of existing transmission line for work of shifting or altering shall be submitted to the respective Regional Power Committee (RPC) or State Load Dispatch Center (SLDC), as applicable, well in advance by the Owner of the transmission line. The work shall be completed in the minimum possible time and the following shall be ensured:

- (a) Long Duration Shutdowns shall be avoided during peak months which may cause Total Transfer Capacity (TTC)/Available Transfer Capacity (ATC) curtailment and generation curtailment, affecting grid reliability.
- (b) Deferment of Approved Shutdowns shall be avoided.
- (c) Extension beyond Approved Dates of shutdown shall be avoided.
- (d) Repeated Shutdowns on the same line to be avoided.
- (e) Emergency Restoration Systems (ERS) to be used to avoid for critical outages, affecting system integrity.
- (f) Shutdowns shall be planned after resolving Right of Way (RoW) issues.
- (g) Project Developer to provide adequate notice of shutdowns to RPC, RLDC, or SLDC for violating the conditions of SOPs.

14) As per Ministry of Power's OM No. 34-311812022-Trans dated 03.08.2022, the Regional Power Committee (RPC) Secretariat shall provide deemed availability certificate for the shutdown period availed by transmission licensee (both Regulated Tariff Mechanism and Tariff Based Competitive Bidding) for shifting of their ISTS lines, provided the transmission customers are not affected by the shutdown of the line. All such applications for deemed availability shall be considered irrespective of date of application.

15) For the cases where deemed availability certificate for the shutdown period is not issued to transmission licensee for the shutdown period or part thereof, then in such cases, charges towards loss of availability due to such shutdowns shall be borne by Project Developer.

16) Requirement for Overhead Transmission Lines Crossing of Road/ highways/Railways:

- (a) At all road crossings, except National Highways, the towers/ poles shall be fitted with normal suspension or tension insulator strings depending

on the type of towers. However, for all National Highways crossings, tension type towers/ poles with tension insulator strings shall be used.

- (b) A minimum of two sets of long rod insulators or two sets of disc insulator strings per phase per circuit shall be used.
- (c) The crossing span shall not be more than 250 meters, unless higher span is permitted by NHA.
- (d) No joints in conductors or earth wire(s) shall be permitted, in crossing span.
- (e) The overhead line crossing shall normally be at right angle as far as possible.

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