



कर्मचारी राज्य बीमा निगम
(श्रम एवं रोजगार मंत्रालय, भारत सरकार)
EMPLOYEES' STATE INSURANCE CORPORATION
(Ministry of Labour & Employment, Govt. of India)



मुख्यालय
Headquarters
पंचदीप भवन सी०आई०जी रोड, नई दिल्ली-110002
PANCHDEEP BHAWAN, C.I.G. MARG, NEW DELHI-110 002
Phone: 011-23604700 Email: dir-gen@esic.nic.in
Website: www.esic.nic.in / www.esic.in

W-11/12/1/MISC/2023-PMD

27-07-2026

To,

All Additional Commissioners / RDs, Regional Offices
All MS, ESIC/ESIS Hosp. / Model Hosp. / Super Specialty Hospitals
All Deans, ESIC Medical / Dental / Paramedical Colleges
All Directors / JDs (I/c) / DDs (I/c), Sub-Regional Offices
Directors (Medical), Delhi / Noida

Forwarding of CEA Advisory dated 20.05.2026 on Safe Operation of Electrical Installations to Prevent Fire Incidents due to Electrical Short Circuit

1. Please find enclosed herewith Central Electricity Authority advisory dated 20 May 2026 with subject "Advisory for safe operation of electrical installation to prevent fire incidents due to electrical short circuits" and forwarded to your office for necessary compliance.
2. Based on CEA advisory, an Electrical Safety Checklist has been prepared for inspection of electrical installations at ESIC hospitals, enclosed herewith as '**Appendix-A**'.
3. It is requested that a self-assessment may be carried out within your respective jurisdiction, to ensure safe operation of electrical installations at ESIC hospitals.
4. This issues with the approval of the Competent Authority.

Encl.: As above

Yours faithfully,

MANISH KUMAR SAHU
Digitally signed by
Manish Kumar Sahu
EXECUTIVE ELECTRICAL ENGINEER
Date: 27-07-2026
10:58:06

Copy to:

1. PPS to DG - for information.
2. All Zonal Medical Commissioners - for information, coordination and effective monitoring including State run hospitals.
3. All Zonal Insurance Commissioners (Hqrs. / All Zones) - for information, coordination and effective monitoring.

4. All EE / AEE / AE / JEs posted in Regional Offices, Hospitals and Medical Colleges - for information and strict compliance. They shall ensure immediate review of electrical installations and necessary action in accordance with the enclosed CEA Advisory.
5. Website Content Manager, Headquarters Office - for uploading on the ESIC website.

Appendix-A**ELECTRICAL SAFETY CHECKLIST**

(Based on CEA Advisory dated 20.05.2026 : Safe Operation of Electrical Installations to Prevent Fire Incidents)

Hospital		Date of Inspection	
Inspected By		Designation	

S.No.	Checkpoint	Yes	No	Remarks
A. Manpower, Competency & Training				
1	Only certified/licensed electricians (holding Certificate of Competency/Electrical Work Permit) are deployed for O&M of hospital electrical installations.			
2	An Electrical Safety Officer has been designated for the hospital.			
3	Safety records are being maintained in Form I/II/III as per CEA Safety Regulations, 2023.			
4	Personnel engaged in distribution system O&M have received requisite training.			
5	PPE (insulated gloves, safety footwear, helmets, non-conductive ladders, voltage detectors, arc-flash protection) is available and in serviceable condition.			
B. Substation, Panel Room & Switchgear Safety				
1	All non-current-carrying metal parts of switchgear/control panels are properly earthed.			
2	Insulating floor mats (as per relevant voltage standard) are provided in front & rear of panels.			
3	Entire substation equipment, buildings, and associated metal parts are effectively earthed (touch/step potential within tolerable limits).			
4	All street/pillar boxes containing			

	circuits/apparatus are kept closed & locked, openable only by key/special appliance.			
5	Steel poles carrying switches, transformers, or fuses are properly earthed.			
6	Substation/panel rooms are fenced/secured to prevent unauthorized access.			
7	SLD of Substation available in substation wall			
C. Fire Safety & Emergency Preparedness				
1	Fire buckets filled with clean, dry sand are available			
2	Fire extinguishers suitable for electrical fires are installed, inspected & tested periodically.			
3	Fire alarm systems are installed and functional for early detection.			
4	No flammable material is stored under/near electric lines, panels, or transformer yards.			
5	No open fire is permitted below overhead lines or above demarcated underground cables.			
D. Signage, Display & First-Aid Readiness				
1	Danger notice (skull & bones sign, Hindi/English/local language) is displayed at all installations >250V.			
2	Address/contact numbers of nearest doctor, hospital, ambulance & fire service are displayed near electric-shock treatment charts in control rooms/operator cabins.			
3	Instructions for resuscitation of electric shock victims are displayed in substations.			
E. Distribution System, Cabling & Lines				
1	All supply lines, wires, fittings & apparatus up to the point of supply are in safe condition.			
2	Underground/accessible service lines are properly insulated & protected against injury.			

3	A suitable earthed terminal is provided & maintained near the point of commencement of supply.			
4	No conductor/earth wire of an overhead line has more than one joint in a span (none at all across highway/railway crossings).			
5	Minimum clearance of lowest conductor of overhead lines is maintained as per CEA Regulations 60, 62, 63 & 71.			
6	No rods, pipes, or similar material is taken below/near bare overhead conductors without proper supervision.			
7	No material, earthwork, or agricultural produce is dumped, and no trees are grown near bare overhead lines.			
8	Regular patrolling of lines is carried out to detect leakage/energization risk of earth/guy wires.			
9	Anti-climbing devices (barbed wire/spiked clamps) are provided on poles/towers of 11kV & above.			
10	Lightning protection arrangements are adopted for exposed overhead lines/substations.			
11	Cables are laid as per relevant standards to avoid danger.			
F. Protective Devices & Modern Safety Measures				
1	Residual Current Devices (RCDs/ELCBs) are installed and functional			
2	No unauthorized energization or illegal power hooking/theft exists on campus.			
3	Safety measures are ensured while charging electric vehicles on campus.			
G. Inspection & Statutory Compliance				
1	New electrical installations have been inspected/tested by the Electrical Inspector, where applicable.			

2	Periodic inspection & testing of installations above notified voltage has been carried out.			
---	---	--	--	--

Overall Remarks / Non-Compliances Observed:

Date:

Place :

Signature:



भारत सरकार/Govt. of India
विद्युत मंत्रालय/Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority
मुख्य विद्युत निरीक्षणालय प्रभाग/Chief Electrical Inspectorate Division

Date: 20.05.2026

To,

(As per List)

Subject: Advisory for Safe Operation of Electrical Installations to Prevent Fire Incidents due to Electrical Short Circuits -regarding.

“Let us target zero accident in all power utilities and consumers of electricity.”

As we know, several fire incidents have recently occurred in different parts of the country, such as a high-rise building in Palam (Delhi), a house in Indore (Madhya Pradesh) and a Medical College & Hospital in Cuttack (Odisha), resulting in several casualties. Probability of electrical short circuit have been cited as the cause of these incidents. The increasing intensity and frequency of heatwave conditions in India are further aggravating stress on electrical infrastructure, resulting in increased loading of transformers, cables, switchgear, and other electrical installations.

Further, the India Meteorological Department (IMD) has forecast above-normal heatwave conditions over several parts of India during the ongoing summer season, with temperatures in many regions likely to exceed 45°C in the coming days. Therefore, there is an urgent need for all utilities/stakeholders to properly operate and maintain electrical installations and ensure adherence to electrical safety measures so as to minimize the possibility of fire incidents due to electrical short circuits and to ensure reliable and safe operation of the electrical network during the prevailing heatwave conditions.

Considering the above incidents of fire and increase in probability of electrical short circuits due to the ongoing heatwave conditions across India, CEA has selected the theme for this year's Electrical Safety Week 2026, commencing from 26th June 2026, as **“Today's Awareness, Tomorrow's Prevention – Let Us All Unite to Prevent Fire Hazards from Electrical Short Circuits”**. We feel that it would help in spreading awareness among various stakeholders and the public at large for ensuring electrical safety against fires caused by electrical short circuits.

In view of the above, for ensuring electrical safety, it is advised to follow regulatory provisions as given below:

1. Owner of electrical installation **shall designate only that person who possesses a certificate of competency or electrical work permit**, issued by the Appropriate Government for the purpose to operate and carry out the work on electrical lines and apparatus.
2. All suppliers of electricity shall designate an **Electrical Safety Officer** for ensuring observance of safety measures specified under these regulations in their organisation for construction, operation and maintenance of their electrical system. Electrical Safety Officer shall keep a record maintained in Form I or Form II or Form III (as applicable) as per Schedule II of CEA Safety Regulations, 2023 (attached at **Annex-II**).
3. Owner of every distribution system shall arrange for **training of their personnel** engaged or appointed to operate and undertake maintenance of distribution system as per mandate provided in the said Regulation.
4. The supplier shall ensure that all electric **supply lines, wires**, fittings and apparatus belonging to him or under his control, up to the point of commencement of supply, which are on a consumer's premises, are in a safe-condition and in all respects fit for supplying electricity and the supplier shall take **precautions to avoid danger arising** on such premises from such supply lines, wires, fittings and apparatus.
5. The service lines placed by the supplier on the premises of a consumer which are underground or which are accessible shall be so insulated and protected by the supplier as to be secured under all ordinary conditions against electrical, mechanical, chemical or other injury to the insulation.
6. The supplier shall provide and maintain on the consumer's premises for the consumer's use a **suitable earthed terminal** in an accessible position at or near the point of commencement of supply as per relevant standards.
7. The owner of every installation of voltage exceeding 250 V shall affix permanently in a conspicuous position a **danger notices in Hindi or English** and the local language of the district, with a sign of skull and bones of a design as per relevant standards.
8. Workers must be provided with appropriate **personal protective equipment (PPE)**, tools, and devices—such as insulated gloves, safety footwear, helmets, non-conductive ladders, earthing devices, voltage detectors, and arc-flash protection—kept in sound working condition. Only designated and trained personnel shall be permitted to operate or maintain electrical installations, and they must always observe prescribed safety precautions.
9. For the safety of operating personnel, all non-current carrying metal parts of switchgear and control panels shall be properly earthed and **insulating floors or mat** conforming to the relevant standards of appropriate voltage level shall be provided in front and rear of the panels.
10. All **street boxes or pillar boxes** containing circuits or apparatus shall ensure that their **covers and doors are kept closed** and locked and are so provided that they can be opened only by means of a key or a special appliance.

11. **Fire buckets** filled with clean dry sand and ready for immediate use for extinguishing fires, **in addition to fire extinguishers** suitable for dealing with fires, shall be conspicuously marked and kept in substations in convenient locations shall be installed, maintained, periodically inspected and tested as per the relevant standards for extinguishing and controlling fire. Gas masks shall be provided conspicuously and installed and maintained at accessible places in enclosed substation with transformation capacity of five megavolt-ampere and above for use in the event of fire or smoke.
12. **Address and contact number of the nearest Doctor, Hospital** with a facility for first-aid treatment for electric shock and burns, ambulance service and fire service shall be prominently displayed near the electric shock treatment chart in control room and operator cabin.
13. **Instructions**, in English or Hindi and the local language of the district, and where Hindi is the local language, in English and Hindi **for the resuscitation of persons** suffering from electric shock, shall be affixed by the owner in a conspicuous place in enclosed substation.
14. Electrical installation works, with some exceptions, in the premises of any consumer shall be carried out only by a licensed electrical contractor. The works shall be carried on behalf of such contractors by a person permitted by the State Government under the direct supervision of a person holding a certificate of competency.
15. Inspection and testing of new electrical installations including installations of supplier or consumer as well as the periodic inspection and testing of installation of voltage **above the notified voltage** belonging to the owner or supplier or consumer, as the case may be, shall be carried out by the **Electrical Inspector**.
16. The entire substation equipment and buildings including all non-current carrying metal parts associated with an installation shall be **effectively earthed** to an earthing system or mat which shall limit the touch, step potential and earth potential rise to tolerable values as per relevant standards.
17. No conductor or earth wire of an overhead line shall have more than one joint in a span: Provided that there shall be no joints in the conductor or earthwire in a span of crossing over the highways, expressways and railway lines.
18. The **minimum clearance** should be maintained in air of the lowest conductor of overhead lines as per regulation 60, 62, 63 and 71 of Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2023.
19. **No rods, pipes or similar materials shall be taken below**, or in the vicinity of any bare overhead conductors or lines: Provided that if these materials contravene the regulations 62 and 63, such materials shall be transported under the direct supervision of a person designated or appointed or engaged or permitted under these regulations.
20. No rods, pipes or other similar materials shall be brought within the flash over distance of bare live conductors or overhead lines.
21. No material or earth work or agricultural produce shall be dumped or stored, no trees grown below or **in the vicinity of bare overhead conductors** or lines in contravention to the regulations 62 and 63.
22. **No flammable material** shall be stored under the electric line.

23. **No fire** shall be allowed below overhead lines and above the demarcated underground cables.
24. **No blasting** for any purpose shall be done within three hundred metres from the boundary of a substation or from the electric supply lines of voltage exceeding 650 V or tower structure.
25. **No service line or tapping** shall be taken off an overhead line except at a point of support: Provided that the number of tappings per conductor shall not be more than six in case of connections at voltage not exceeding 650 V.
26. **All steel poles** on which switches, transformers, fuses are mounted **shall be earthed**.
27. For poles of the electric lines below 650 V, **guarding arrangement** with continuous earth wire or messenger wire in case of aerial bunched cable shall be provided, and shall be connected to earth at three equidistant points in every km.
28. The owner of every overhead line of voltage exceeding 650 V shall make adequate arrangements as per relevant standards to prevent **unauthorised persons from climbing** any of the supports of such overhead lines which can be easily climbed upon without the help of a ladder or special appliances:
Provided that the **barbed wires** conforming to relevant standards for a vertical distance of 30 to 40 cm, at a height of 3.5 metre to 4 metre from ground level or **clamps with protruding spikes** at a height of 3 to 4 metre, shall be provided on each pole or tower of 11 kV line and above.
29. The owner of every overhead line, substation or generating station which is exposed to lightning shall **adopt means** as per relevant standards for diverting electrical surges to the earth due to lightning which may result into injuries.
30. Laying of cable shall be as per relevant standards and should be maintained to avoid any danger.
31. Regular frequent patrolling of the line shall be ensured to mitigate any probable danger due to leakage and energisation of earth wire/guy wire etc.
32. Fencings shall be suitably provided for electrical installations to make it inaccessible for unauthorised personnel.
33. The use of electricity to electrical installation, shall be controlled by a **residual current device** to disconnect the supply having rated residual current and duration as per the relevant standards. Provided that in domestic installation, residual current device having residual operating current not exceeding 30 milliampere shall be used.
34. All Safety measures shall be ensured while charging **electric vehicles**.
35. **Fire alarm systems** shall be installed for early detection and prevention of fire incidents.
36. **Sufficient number of fire extinguishers** shall be installed and maintained for effective control of fire incidents.
37. Action to prevent unauthorized energization of fencing and illegal hooking for theft of electricity.

In addition to above, it is further advised to-

1. Conduct the awareness programs on electrical safety and fire safety associated with electrical short circuit, with emphasis on adherence to the provisions of the CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023, and usage of aforementioned technology/ solutions.
2. All electrical installations serving critical infrastructures, large public gathering, high public footfalls and high frequented public places such as Hospitals, Schools, Stadiums, Malls, Hotels, Cinema Halls, Game zones, Banks, high rise building of more than 15 m height etc. have the following for electrical safety and fire safety associated with electrical origins.
 - a. The electrical accidents including fire incidents caused due to probable electrical short circuit may be prevented through the use of Internet of Things (IoT)-based systems that can round-the-clock monitor continuously in real-time the critical electrical parameters for detection, analyses and preventing incidents leading to electrocution, equipment failure and fires such as, arcing, short circuit, over current, earth current leakage, high earth voltage, over voltage, phase loss, phase reversal, loss of neutral supply, loads with high inrush current, loads with high harmonics, unbalanced or asymmetrical loads, etc. as these parameters act as early indicators of electrical incidents including fire risk, and send real-time alerts notifications/e-mails/messaging services, and also cut off the power supply in case of critical event.
3. For wider dissemination of awareness programs, following booklets on Electrical Safety, published by Central Electricity Authority (CEA), may be considered:
 - a) 'SACHET' - Handbook for Electrical Safety, b) Electrical Safety Handbook for Students c) 'Suraksha Shakti' - सुरक्षा है जहाँ, खुशियाँ हैं वहाँ,
 which are available in public domain and can be downloaded from:
<https://cea.nic.in/safety-lineman/?lang=en>
4. In addition, a Safety Mascot was launched on 'Electrical Safety Day' celebrated on 26.06.2025, wherein Electrical Safety Oath was undertaken (video attached in mail), which may be conveyed to all stakeholders and public to make Electrical Safety Oath for staffs a daily practice.
5. **Any other suitable measures for ensuring safety as per safety regulations/ relevant standards and national/ international best practices may be adopted.**

It is requested to take necessary actions to ensure safe operation and maintenance of the electrical installations, and to spread awareness across all sections of society regarding electrical safety so as to safeguard human/animal life, prevent electrical accidents and fire incidents due to electrical short circuit, and promote a culture of safety in the installation, operation, and maintenance of electrical systems.

This issues with the approval of competent Authority.

भवदीय,

Digitally signed by
आर.पी. सिंह,
Raghendra Pratan Singh
मुद्रण विभाग, नई दिल्ली
Date: 21-05-2026
12:37:42

Copy for information to:

1. SA to Chairperson, CEA
2. SA to Member (Power System)