

## **Report on the National Workshop On** **Awareness of Electrical Safety held on 20.09.2019 at Bilaspur, Chattisgarh**

### **BACKGROUND:**

CEA has been taking lot of initiatives regarding amendment of the Electricity Safety Regulations from time to time. Recently the comprehensive review of the Electricity Safety Regulations was done. In spite of the various measures taken for the electrical safety, there is no appreciable reduction in the number of electrical accidents taking place throughout India. It is very unfortunate to say that even though having enough manpower engaged to oversee the implementation of electrical safety measures, the count of fatality due to electrical accidents is one of the highest in the world.

To tackle this problem of electrical accidents effectively, CEA has taken up three prong strategy. At first, requisite amendments in the regulations has already been carried out based on the need due to technological changes and amendments suggested by the State Government, industry and the General Public. Secondly CEA has tied up with all the State Electrical Inspectorates through Standing Committees on Electrical Safety on the measures to be adopted for reducing the electrical accidents. The Standing Committee on Electrical Safety is acting like a bridge between the centre and the states on the exchange of information and ideas for better implementation of the Electrical Safety Regulation. The third step is the sensitization of people in the organizations dealing with electricity/various electrical utilities through awareness generation campaign.

In this context, CEA has already started this awareness generation campaign in various metro cities for the last three years. However, the result of this was minimal as it has been seen that the fatality rate is higher in the low voltage side i.e. nearly 70-80% electrical accidents happens at 33kV and below voltage level. It is well known that the low voltage is closer to the people who are generally the end user of the electricity. As such, it has been decided that there is a need to take this awareness generation drive to the end user in the small cities/ district/tehsil/panchayat level. The people who are working in the local administration, DISCOMs, licensed electrical contractors, supervisors and the people dealing with electricity on day to day basis need to be jointly sensitized so that they become aware about any negligence regarding electrical safety and can act as a change agent.

Accordingly, CEA(in 3<sup>rd</sup> Standing Committee on Electrical Safety held on 03.08.2018 at Faridabad and subsequent meeting on Awareness Generation Program on Electrical Safety held on 26.04.2019 at New Delhi) has decided to conduct the 'National Workshops on General Awareness on Electrical Safety' every month in the small cities/towns of the country in coordination with local state Chief Electrical Inspectorate and a participating organization. To start with, each year there would be 12 workshops on awareness generation programmes in various cities/towns. The national work shop on 20.09.2019 at Bilaspur, Chattisgarh is the one of the such awareness programme to sensitize the various sections of the people in coordination with Chief Electrical Inspectorate/RIO(W), Govt. of Chattisgarh&PGCIL.

### **Inviting Dignitaries:**

RIO (West), CEA, Mumbai has understood the importance of the awareness program and given paramount priority to the workshop. Utmost importance was taken in inviting chief guest and special guests to the event as their presence certainly influences and enhances the attention of the participants which further accomplishes the purpose of the workshop. RIO(W), CEA, Mumbai along with CEIG

Chattisgarh and PGCIL, Bilaspur cordially invited the Shri. Shailendra Shukla, Chairman, CSPCL, District Magistrate Bilaspur, Divisional Commissioner of Police Bilaspur, &ED, PGCIL; MD, CSPTCL; MD, CSPGCL; MD CSPDCL; Special Secretary (Energy), Govt of Chattisgarh; Principal, Govt Engineering College, Bilaspur; Head, JPL as chief guests/special guests to the Workshop. SmtTripti Sinha, MD, CSPTCL accepted the invitation as Chief Guest and Shri. M.S Ratnam, Special Secretary (Energy), Govt of Chattisgarh; Shri. Sanjay K. Alung, District Magistrate Bilaspur; Shri. G C Mukherjee, Director, CSPDCL; Shri. Jaidev Chakravarti, Head, Jindal Power Ltd accepted as a special Guests for this workshop.

### **Nomination of Participants/Invitations to Speakers:**

It was felt that participation from various Utilities/organizations, local bodies etc. were very much important in order to achieve the intention of the programme. RIO(W), CEA, Mumbai has invited Local DISCOM, TRANSCO, GENCO, all the IPPs, Central PSUs (PGCIL, NTPC, Oil Companies, SAIL, NMDC etc), all Chattisgarh Electrical Inspectors and Electrical Contractors(With the support of the CEIG Chattisgarh ). RIO(W), CEA, Mumbai had sent the invitation/nomination letters requesting for nominations of two members from each utility for participating in the Workshop. Nominations were received from all the IPPs, Central PSUs (PGCIL, NTPC, Oil Companies, SAIL, NMDC etc), Local DISCOM, TRANSCO and GENCO, Chattisgarh Electrical Inspectors, Registered Electrical Contractors etc. Around 100 participants were expected for the workshop.

As per the scheduled programme of the topics on Electrical safety, invitation letters to speakers from BIS, PGCIL, NTPC & IEEMA had been sent by RIO(W), CEA, Mumbai. Two sessions from RIO(W) were also planned. IEEMA was further requested for table top display of switchgear/equipment/accessories pertaining to electrical safety. IEEMA assured that they would send the safety handbook 'SACHET' for all the participants.

### **Co-Ordination with PGCIL, Bilaspur& CEIG Chattisgarh**

RIO(W), CEA, Mumbai has kept all the serious efforts for the event in co-ordination with PGCIL, Nagpur & Bilaspur& CEIG Chattisgarh. The support from PGCIL, Bilaspur& CEIG Chattisgarh is highly appreciable right from inviting guests, booking the hall etc.

All the four officers of RIO(W), CEA, Mumbai reached Bilaspur on the day before Workshop to ensure the righteous arrangements for the workshop.

### **Schedule of Programmes on the day of Workshop i.e. 20.09.2019**

#### ***Registration:***

Registration started at 10.00 Hrs, PGCIL, Bilaspur has made all the arrangements for registration that includes distribution of a welcome kit consisting of schedule of the program, scribbling pad, pen, Pendrive, Bag& SACHET handbook on electrical safety in English/Hindi. All the dignitaries, participants & media people are very much pleased with the quality & content of the safety handbook. The number of participants registered for the workshop was above 130. The members from various State & Central government organizations, IPPs, Engineering College, Electrical Inspectors, Registered Contractors in and around Bilaspur etc. have been participated in the workshop.

## ***Inauguration session:***

Inaugural session started as scheduled after arrival of respected Chief Guest Smt. Tripti Sinha, MD, CSPTCL. The other guests who were honoured on the dias are as below:

1. Shri. M.S. Ratnam, Special Secy(Energy),Govt of CG
2. Shri. L.K.S Rathore, Director, RIO(W),CEA
3. Shri. Sanjay K Alung, District Collector, Bilaspur.
4. Shri. G C Mukherjee, Director, CSPDCL
5. Shri. R Amuthan, Sr. GM, PGCIL
6. Shri. Jaidev Chakravarti, Head, Jindal Power Ltd.



The inauguration session was started with the lighting the lamp (Jyoti Prajwalana) by honourable Chief Guest Smt. Tripti Sinha, MD, CSPTCL followed by other guests on the stage.



Welcome Address was made by Sh. L.K.S Rathore, Director, RIO(W),CEA. He briefed the role of CEA in framing the regulations & policies in Indian power sector & the efforts made by Chief Electrical Inspectorate division, CEA in bringing out the latest amendments in “Measures relating to safety & Electric supply” 2010 in co-ordination with all the stakeholders. He told that CEI Div, CEA drives the Awareness on Electrical safety programme on Pan-India basis and assigned the regional Office to spread the awareness of Electrical Safety in their respective region. He mentioned about the efforts of CEA in bringing awareness on electrical safety at Metropolitan cities so far & emphasized the necessity of awareness generation programmes at different cities. He further stated that the main reasons of electrical accidents are :-Old Installations, Poor workmanship, Design and use of substandard material ( Commercial compromise), Improper maintenance, Attitude (Chalta hai, overconfidence, casual approach). He requested all concerns to bringing the awareness to towns, tehsil & villages. All the special Guests have appreciated the efforts of CEA initiation and explained the necessity of Electrical safety.



Shri. L.K.S Rathore, Director RIO(W)



Smt. Tripti Sinha, MD CSPTCL



Shri. M.S. Ratnam, Special Secy(Energy) GOCC



Shri. Sanjay K Alung, District Collector



Shri. R Amuthan, Sr. GM PGCIL



Shri. Jaidev Chakravarti, Head JPL

Smt. Tripti Sinha, MD, CSPTCL thanked CEA for this initiative, explained the need of Electrical safety. She stated that accident free Chattisgarh shall be the vision of the Chattisgarh. Thereafter Shri. Sanjay K Alung IAS, District Collector, Bilaspur addressed the audience and safety is the common sense and it shall become habit in our daily life. Keeping Electrical Safety shall become the lifestyle. Later Shri. M.S. Ratnam, Special Secy(Energy), Govt of CG gave his valuable speech regarding the importance of conducting such awareness programs & appreciated the efforts of CEA in this regard. He shared the analogy of the Electrical system with Human heart function. He insisted everyone to conduct the same in their respective organisations. Later Shri. R Amuthan, Sr. GM, PGCIL addressed the participants. On behalf of PGCIL, he thanked CEA for giving the opportunity of being part of such a noble cause. Finally Shri. Jaidev Chakravarti, Head, JPL addressed the audience and envisaged the importance of electrical safety awareness.

Inaugurating session came to an end with the felicitation to the Chief Guest and special guests.



### ***Vote of Thanks:***

Sh. Reeturaj Pandey, Assistant Director, CEI Div, CEA New Delhi thanked the Chief Guest, special guests and all for gracing their important work and inspiring with their valuable findings and opinions. Also thanked all the speakers for their brilliant presentations and members for proactive participation. He thanked all the participants for their active participation in discussions and their valuable experiences.



### Technical Sessions:

Presentations were started after inauguration session. Total 6 Technical presentations were divided into 3 sessions.

Session -I		
S.No	Speaker/Presenter	Topic
1	Shri. Karthik Vagicharla, Asst Director, RIO(W), CEA	CEA Safety – Act & Regulations
2	Shri. Sandeep Kumar, Asst Director, RIO(W), CEA	Electrical Accident Statistics & Analysis, Issues and Challenges



Shri. Karthik Vagicharla Assistant Director



Shri. Sandeep Kumar Assistant Director

Session -II		
S.No	Speaker/Presenter	Topic
1	Shri. Kuleswar Shahu GM, PGCIL	Safety Practices of EHV Substations and Transmission Line
2	Shri. Arka Saha Scientist-C, BIS	Electrical Safety Standards



Shri. Kuleswar Shahu GM, PGCIL



Shri. Arka Saha, Scientist-C, BIS

Session -III		
S.No	Speaker/Presenter	Topic
1	Shri. Neeraj Kumar Yadava AGM, NTPC	Electrical Safety Practices for Thermal Power Stations
2	Mr.Rajib Choudhary Cargill, IEEMA	Fire Retardant Fluid for Transformer



Shri. Neeraj Kumar Yadava NTPC



Mr. Rajib Choudhary IEEMA

All the speakers were honoured with mementos for their valuable presentations/speech that enriched the knowledge of the participants attended for the Workshop.

### Media Coverage:

To bring the wide publicity in the media on the awareness program is one of the key factor to spread the awareness in public. Enormous efforts were made by PGCIL, Bilaspur to cover the complete program by all news papers and various regional and national media I(<https://youtu.be/RdVJir9kyCk>) were invited to cover the programme. Various news clippings about the programme in regional language Newspapers



### बिजली दुर्घटनाओं से बचाव के बताए तरीके

पावर ग्रिड कार्पोरेशन एवं केंद्रीय विद्युत प्राधिकरण का संयुक्त आयोजन

भारत संवाददाता | रत्नपुर

पावर ग्रिड कार्पोरेशन एवं केंद्रीय विद्युत प्राधिकरण के संयुक्त तत्वाधान में शुक्रवार विद्युत सुरक्षा सत्रकता पर एक दिवसीय कार्यशाला का आयोजन बिलासपुर कलेक्टर संजय अलग के मुख्य अतिथि में किया गया। कोर्टमार्ड मैग्निट होटल मंगला बिलासपुर में आयोजित उक्त कार्यक्रम का मुख्य उद्देश्य विभिन्न सरकारी एवं गैर सरकारी उपक्रम में होने वाले विद्युतीय दुर्घटनाओं के प्रति लोगों को जागरूक करना था। कार्यक्रम में कई सरकारी एवं गैर सरकारी उपक्रमों जैसे एनटीपीसी, सेल, बिंदल, केएसके, मोरसरीडोमैरल, डीबी पावर, एनएसडीसी, मोरसरीडोमैरल, छत्तीसगढ़ कर्जा विभाग व शासनको



इंजीनियरिंग बिलासपुर ने नगरिकों ने शिरकत की। कलेक्टर संजय अलग, केंद्रीय विद्युत प्राधिकरण के निदेशक एल के राठौर तथा मोरसरीडोमैरल के पापडी तृति मिन्हा ने शैिक जीवन को दिनचर्या में कामन्नीम का प्रयोग करते हुए सुरक्षा की अन्देखी से बचते होने वाले जन्मान्त की दुर्घटनाओं से आमजन को बचेत किया। पावर ग्रिड के वीरच महासंभक एमएन आर, कर्जा विभाग के विशेष संचिक एमएस रत्नम, मोरसरीडोमैरल

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के निदेशक जोसे मुखर्जी, जयदेव चक्रवर्ती बिंदल पावर लिमिटेड ने सेम्टी के खारे में जाहरूक किया। कार्यक्रम में पावर ग्रिड बिलासपुर के वीरच उप महासंभक मन्क सिंह, जीपल कुभरे, सेम्टी पावर ग्रिड नागपुर मुख्यालय से डोमेगाले, मुख्ण प्रबंधक आरके राव, प्रबंधक टीरक कुमार, अविनाश शेट्या, उप प्रबंधक दुनेश्वर मेरिा, कनिष्ठ अभिनीता सुनील माहू, अनीला उपपायाग, डिप्लोमा डेनी मल्लिा खुरशु पटेल ने अपना योगदान दिया।

# बिजली का इस्तेमाल करते समय सुरक्षा को आदत बनाएं

■ नवभारत रिपोर्टर / विलासपुर.

बिजली का इस्तेमाल करते समय हमें अपनी सुरक्षा का ध्यान रखना चाहिए. सुरक्षा उपायों को अपनी आदत में शामिल करना चाहिए.

यह बात कलेक्टर डॉ. संजय अलंग ने बिजली से सुरक्षा पर आयोजित राष्ट्रीय स्तर की एक कार्यशाला में कही. उन्होंने कहा कि कोई भी काम बार-बार करने से वह आदत बन जाती है. बिजली से सुरक्षा का भी बार-बार अभ्यास करना चाहिए, जिससे वह आदत बन जाये. दुर्घटनाओं को रोकने के लिए सामान्य-जोध को बनाये रखना हमारा पहला उद्देश्य होना चाहिए. डॉ. अलंग ने कहा कि शत-प्रतिशत सुरक्षा के लिए



प्रत्येक छोटी-छोटी चीज पर ध्यान रखना चाहिए.

केन्द्रीय विद्युत प्राधिकरण द्वारा विद्युत सुरक्षा हेतु सामान्य जागरूकता विषय पर कार्यशाला का आयोजन किया गया. सीएसपीडीसीएल की एमडी श्रीमती तुपति सिन्हा ने कहा कि बिजली के दैनिक

उपयोग में सुरक्षा का पालन बहुत जरूरी है. सुरक्षा एक बड़ी चुनौती है, जिस पर ध्यान देना होगा. कार्यक्रम में स्वागत उद्बोधन सेन्ट्रल इलेक्ट्रिक अथॉरिटी के डायरेक्टर एल. के. एस. राठौर ने दिया. पावर ग्रिड कापरिशन के महाप्रबंधक आर. अमृथन, शासकीय

इंजीनियरिंग महाविद्यालय के उप-प्राचार्य एस. के. सिंघई ने भी अपने विचार रखे. आभार-प्रदर्शन केन्द्रीय विद्युत प्राधिकरण के उप-निदेशक सचिन के. भिसे ने किया. इस अवसर पर विभिन्न निजी एवं सार्वजनिक उपक्रमों के अधिकारी-कर्मचारी उपस्थित थे.



## बिजली के क्षेत्र में बाईपास मृत्यु को खुला आमंत्रण

इस अवसर पर छत्तीसगढ़ शासन के विशेष सचिव (ऊर्जा) एम. एस. स्वम ने कहा कि जब से बिजली का अविच्छन्न हुआ है, यह हमारा मददगार रहा है. इससे हमारा जीवन आसान हुआ है. बिजली कई सहूलियतें देती है, लेकिन कई बार हमारे लिए दर्द का कारण भी बन जाती है. बिजली अदृश्य है लेकिन अनुमान लगाकर हम दुर्घटना को टाल सकते हैं. चिकित्सा जगत में बाईपास सजरी से लोगों की जान बचती है. लेकिन बिजली के क्षेत्र में बाईपास करना मृत्यु को खुला आमंत्रण देना है.

## Group Photo



All the participants enthusiastically participated in discussions, shared their experiences. They ensured that they were spread this awareness program in their respective organizations. It was also requested by participants to conduct such programs related to electrical safety by CEA in their organization.

Finally, Director, RIO(W), CEA thanked all the officials directly or indirectly involved in the organization of this program and making it a grand success. He encouraged all the participants to reach out to grass root level for Electrical accident free India.

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