

Report on the Electrical Safety Workshop held on 27.07.2020

for M/s. NMDC (NISP), Bastar

through ON-LINE Platform (Microsoft Teams)

BACKGROUND:

CEA has been taking lot of initiatives regarding amendment of the Electricity Safety Regulations from time to time in consultation with various stake holders. Comprehensive review of the Electricity Safety Regulations is under process. In spite of the various measures towards electrical safety, a number of electrical accidents are taking place throughout India. It is sad to note that 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. Firstly, 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, stakeholders, Industry and the General Public and comprehensive review of the Regulation is under process. 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 engineers / technicians in the organizations dealing with electricity/various electrical utilities and general public through awareness generation campaign.

CEA has already started awareness generation campaign in various metro cities for the last three years. 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.

Central Electricity Authority (in 3rd 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 participating organization. To start with, each year there would be 12 workshops on awareness generation programmes in various cities/towns.

The RIO (W) has organised 5 no. of national work-shops and around 10 plant specific workshops in different states in Western region.

Due to COVID Scenario, RIO (W) organised Electrical Safety workshop on on-line platform on 27-07-2020 for M/s. NMDC, Bastar officers.

Initiation of the Workshop:

Shri.KarthikVagicharla, Electrical Inspector, RIO (West), CEA, Mumbai has visited the M/s. NMDC (NISP – Iron and Steel Plant, Nagarnar) Plant, Bastar for periodical Inspection. NMDC (NISP) has many plants and a no. of Electrical engineers are looking after the O&M. To create understanding of Electricity Act, CEA Safety regulations, Safety operations and Accident Analysis, RIO (W) has proposed one workshop for all electrical officials of the plant through on-line Platform.

Due care 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 in turn accomplishes the purpose of the workshop. RIO(W), CEA, Mumbai invited the Shri Prasant Dash, Executive Director, and Shri Sanjay Panjiyar, GM(Projects & Maintenance), NMDC Iron & Steel Plant, Nagarnar Bastar as special guests and Shri. Ravinder Gupta, Chief Electrical Inspector, Govt of India as Guest of Honor for this workshop.

Schedule of Programmes on the day of Workshop

Inauguration session:

Inaugurall session started as scheduled by On-line Platform.

1. Shri. Ravinder Gupta, CEI, Govt of India
2. Shri Prasant Dash, Executive Director, NMDC Iron & Steel Plant, Nagarnar
3. Shri. L.K.S Rathore, Director, RIO(W),CEA
4. Shri Sanjay Panjiyar GM(Projects & Maintenance), NMDC Iron & Steel Plant, Nagarnar.
5. Shri. Dinesh Gowdra, DGM (Electrical)

Inaugural session was started with welcome address by Shri. Prasant Dash, ED, NMDC (NISP). He thanked Shri. Ravinder Gupta, CEI & his RIO (W), team for taking initiative to organise this program for their plant officials. He welcomed all the participants for this workshop. He told that CEA has already started this awareness generation campaign in various metro cities for the last three years. He entrusted that there is a need to take this type of awareness generation drive to the utilities, industries and even at end user in the small cities/ district/tehsil/panchayat level. He heart fully thanked CEA efforts for accident reduction in India and appreciated the CEA's vision for "Electrical Accident free India".



Keynote address was made by Sh. L.K.S Rathore, Director, RIO (W), CEA. He thanked Shri P Mhaske Chairperson, CEA, Shri Ravinder Gupta, CEI, CEA and Shri. Prasant Dash, ED, NMDC for the consent to organize this workshop. 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 also

informed that RIO (W) in consultation CEI Division, CEA and different utilities in WR has already conducted several workshops/conferences. He also 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. He wished for fruitful & grant success of the Workshop.



Shri Ravinder Gupta, CEI, CEA welcomed Shri. Prasant Dash, ED, Officers from NMDC & other participants. He congratulated RIO (W), Mumbai for organizing awareness programme on Electrical safety. He said that electricity is a life line of every country and any care less ness in dealing with electricity may result in accident. Keeping this aspect of electricity in view, Electricity rule 1937 in pre independence era and post-independence, Electricity rule 1956 were made. He informed that CEA made the safety regulation 2010 under section 53 of EA, 2003.

He informed about the scenario of electrical accident in India. He requested plant officials to have zero electrical accident vision. He further requested to sensitize about Electrical Safety practices to reduce/minimise electrical accidents. He informed that in last two years, CEA/RIO's conducted more than 20 such workshops. He informed that CEA has published a electrical safety hand book "**Sachet**" narrating safe electrical practises, do's and don't, protection against lightening, first aid etc. It was also requested to NMDC to publish this handbook for every plant of NMDC. At last he thanked to NMDC officials for their willingness to host the workshop in online platform & wished for successful organisation of workshop.

Some snapshot of inaugural session is attached as follows:



Technical Sessions:

Presentations were started after inauguration session. Total 3 Technical presentations were made by RIO (W) & NMDC officers.

Technical Session		
S. No	Speaker/Presenter	Topic
1	Shri. KarthikVagicharla, Asst Director, RIO (W), CEA	CEA Safety – Act & Regulations
2	Shri. Sandeep Kumar, Asst Director, RIO(W), CEA	Safety Awareness and Case Studies
3	Shri. V Nagendra Safety Officer, NISP	Safety Practices of the NMDC (NISP) Plant



Shri. Karthik Vagicharla



Shri.Sandeep Kumar

All the participants enthusiastically participated in discussions. Many of them asked questions related to regulations and inspections. Officers from RIO (W), clarify the doubts & suggested them to go through the regulations and Sachet Booklet.

Vote of Thanks:

Sh. Dinesh Gowdra, DGM (Electrical) thanked the Chief Guest, special guests and all for gracing their important work and inspiring with their valuable findings and opinions. He thanked Chief Electrical Inspectorate Division, CEA & his RIO(W), Mumbai team for taking an initiative like this and conducting the electrical safety workshop for their plant officials. He 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.

Finally, Shri.KarthikVagicharla, Asst 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.

Testimonial from M/s.NMDC Official:

We are grateful to Honourable Chief Electrical Inspector, CEI Div & RIO (West), Mumbai and other regions for participation and organising the workshop on “CEA Safety Regulations, Safety Awareness and Case Studies”.

The information shared by elite team of CEA has helped us to interpret the regulations with much more clarity. Certain common doubts pertaining to periodicity of inspection and self certification provisions of CEA Regulations are very well addressed in the presentation. Further, the reasons and magnitude of electrical accidents shared by CEA is alarming and the target to reach global (American & European) Standards is an uphill task but we are confident that the awareness campaigns and measures taken by CEA will help reduce Electrical accidents and as we move forward it will make our nation to meet global standards.

During the questionnaire session, the spirit of Rathore Sir, Sachin Sir, Karthik Sir and Sandeep Sir Worth lots of accolades as they patiently addressed each and every query of end user with crispness and clarity.

We are very happy to mention our sense of gratitude to your team.

Attendance List

Official from CEA

S.No	Name	Designation	Organisation
1	Ravinder Gupta	Chief Engineer & Chief Electrical Inspector	CEI Div, CEA
2	LKS Rathore	Director	RIO(W), CEA
3	Sachin K Bhise	Deputy Director	RIO(W), CEA
4	KarthikVagicharla	Asst Director	RIO(W), CEA
5	Sandeep Kumar	Asst Director	RIO(W), CEA
6	Subhro Paul	Director	RIO (E) CEA
7	SubhashTudu	Asst Director	RIO (E) CEA
8	Rajesh	Asst Director	RIO(S), CEA
9	GurujitMedhi	Deputy Director	RIO (NE) CEA
10	Sharad Bhupesh	Deputy Director	CEI Div, CEA
11	ArvindMeena	Asst Director	RIO (N) CEA

Officials from NMDC

Sl.	Name	Designation	Dept
1	Prasant Dash	ED	NISP, NMDC
2	Sanjay Panjiyar	GM	Projects & Maintenance
3	DilipMohanty	GM	Operations
4	G R Dinesh	DGM	Plant Power Distribution System
5	Samir Ranjan Patel	DGM	Plant Power Distribution System
6	Sanjay Gaur	DGM	Sms& Ccs
7	Kelvin MaheshbhaiSaha	AGM	Plant Power Distribution System
8	Prasanta Kumar Swain	AGM	Lime &Dolo Plant
9	V-Nagendra	AGM	Safety
10	Pratap Kumar Behera	AGM	Oxygen Plant
11	Manish Chandra Dubey	AGM	Blast Furnace
12	DoddiGaneswaraRao	AGM	Coke Oven
13	Subhendu Kumar Dalai	AGM	Utilities
14	P. Baba Saheb	AGM	Raw Material Handling Station
15	Subhash Chandra Sahu	AGM	Hot Strip Mill & Thin Slab Caster
16	M-Suresh	Sr. Manager	Raw Material Handling Station
17	Suvro Banerjee	Sr. Manager	Lime &Dolo Plant
18	Ch- SreenivasaRao	Sr. Manager	Plant Power Distribution System
19	Anil VarmaSagi	Sr. Manager	Plant Power Distribution System
20	Sudhir Kumar Pandey	Sr. Manager	Pbs/Tbs/Dg
21	RashmiRanjan Rout	Sr. Manager	Coke Oven
22	JayantShukla	Sr. Manager	Plant Power Distribution System
23	Davender Singh	Sr. Manager	Sinter Plant
24	Santosh Kumar Ojha	Sr. Manager	Utilities
25	SaravanaMurugan S	Sr. Manager	Plant Power Distribution System
26	Venkatesha K.V	Sr. Manager	Plant Power Distribution System
27	ShaswatSavarn	Manager	Plant Power Distribution System
28	Vinod Kumar Chaturvedi	Manager	Plant Power Distribution System
29	DiptiPrakashBhanja	Manager	Pbs/Tbs/Dg
30	AshisRanjan Das	Manager	Pbs/Tbs/Dg
31	Sivakumar K	Deputy Manager	ControlizedMaint

Sl.	Name	Designation	Dept
32	Vikrant	Deputy Manager	Hot Strip Mill & Thin Slab Caster
33	Niraj Kumar	Deputy Manager	Sinter Plant
34	Ratan Kumar	Deputy Manager	Pbs/Tbs/Dg
35	Gaurav Sudan	Deputy Manager	Sms& Ccs
36	AnshumanChauhan	Deputy Manager	Blast Furnace
37	Siddhartha Raizada	Deputy Manager	Sms& Ccs
38	Raghavendra N. Raghav	Deputy Manager	Plant Power Distribution System
39	Rohit Singh Rawat	Deputy Manager	Blast Furnace
40	Anjan Kumar Dubey	Deputy Manager	Hot Strip Mill & Thin Slab Caster
41	ShashiPrakash	EXEC.-I (A)	Pbs/Tbs/Dg
42	Kanchan Banerjee	EXEC.-I (A)	Coke Oven
