



भारत सरकार / Government of India
विद्युत मंत्रालय / Ministry of Power
केंद्रीय विद्युत प्राधिकरण/Central Electricity Authority
मुख्य विद्युत निरीक्षणालय प्रभाग
Chief Electrical Inspectorate Division
-18एशहीद जीत सिंह मार्ग,, कटवारिया सरायनई दिल्ली-110066 ,
18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016
Telefax: 011-26565183

संख्या- CEI/1/18/2018/415

दिनांक: 15.3.2018

To

As per list attached

Subject: Minutes of the second meeting of the Standing Committee on Electric Safety held on 10.2.2018 at Raipur, Chhattisgarh.

Sir,

Minutes of the second meeting of the Standing Committee on Electric Safety held on 10.2.2018 at Raipur, Chhattisgarh is enclosed. You are requested to give your comments on the minutes of the meeting, if any, latest by 30th March, 2018. This is for your information and further necessary action.

Yours faithfully,


(Goutam Roy)

Member Secretary

Encl: As above

Minutes of the meeting of the 2nd Standing Committee on Electrical Safety held at Raipur in the State of Chhattisgarh on 10th February, 2018.

A. Inauguration Session

The list of participants in the meeting is enclosed at Annexure-1.

1.1 Secretary (Energy), Government of Chhattisgarh welcomed the participants to the State Capital of Chhattisgarh on the occasion of the meeting of the 2nd Standing Committee on Electrical Safety (SCES). He highlighted the need for electrical safety in view of increased power availability and thereby enhanced usage in the State of Chhattisgarh.

1.2 Member (Secretary), Standing Committee on Electrical Safety (SCES) welcomed the participants and thanked the Energy Department of Government of Chhattisgarh as well as the Electrical Inspectorate for holding the meeting in such a nice venue. He stated that in the last meeting held in the State of Telangana on 14.7.2017, the conduct of the business rules (CoBR) for the SCES were discussed in details. The copy of the same was also circulated along with the Minutes of the Meetings issued to all the members of the SCES. The COBR was to be agreed and signed by the participants and to be sent to the office of the SCES. He informed that the CoBR from most of the states except for few have been received.

1.3 He stated that due to paucity of time only three issues of COBR have been kept for deliberation the whole functions of the CoBR could be taken up in this meeting and if time permits very pertinent issues like (i) preparation of guidelines for the charging station for electrical vehicle and (ii) guidelines for crossing of oil pipelines by the transmission lines would be deliberated otherwise they would be discussed in the next meeting of the SCES. He further stated that this Committee has received the nominations from three new organizations i.e. Indian Railways, Director General of Mines Safety and Directorate General, Factory Advice Service and Labour Institutes (DGFASLI). He requested the Committee to agree to the nomination for the Members of the SCES.

1.4 Member (PS), CEA thanked the State of Chhattisgarh for holding the meeting at Raipur, the capital city of the state of Chhattisgarh. He stated that the main idea behind the formation of SCES is to develop the regulation in inclusive manner so that it is amenable to the states as the implementation part of the regulation mostly lies with the States. He stated that everybody should work together for strengthening the safety standard of the grid as any loss of generation, transmission, distribution or loss of life due to safety issue hampers the availability of power not only at one place but being integrated grid the effect is much wider.

1.5 Managing Director, Chhattisgarh State Power Company Limited in his address to the Committee highlighted the need for sharing the expenditure for the electrical safety between the beneficiary as well as the Discoms. He stated that unless there is proper expenditure sharing mechanism, between the beneficiary and the Discoms it would be difficult for implementation of the safety requirement properly. He further stated that in the Electricity Act, the penalty aspect is not very stringent and unless something is done in this regard proper enforcement of the regulation would be difficult. He also emphasized the need for self-certification and opined that the utilities who are having technical expertise may be made responsible for self-certification. However, for the major/EHV electrical installation, the Electrical Inspector should be the only authority. He also highlighted the need for signage on communication lines and emphasized on proper guidelines for laying the communication lines from safety perspective as most of the communication lines are being taken through the same tower used for LV power transmission. He stated that there are some aspects of signage in the higher voltage but in the lower voltage the same needs to be strengthened/upgraded.

1.6 OSD to Hon'ble Minister, Energy Department, Government of Chhattisgarh in his address welcomed the CEA for taking the initiative for formation of the SCES which, he stated, would strengthen the regulation on electrical safety. He emphasized that a part of the cess that is being charged on

the usage on electricity must be utilized for implementation of the electrical safety.

1.7 The Preliminary session of the meeting ended with the vote of thanks by Dy. Director, CEA to the Chair.

B. Technical Session

The technical session of the meeting started with the Agenda for the meeting:

1. *Agenda 1: Approval of the minutes of the first meeting of the SCES held on 14.7.2017 at Hyderabad in the State of Telangana*

Member Secretary, SCES stated that the first meeting of the Committee was held in the State of Telangana at Hyderabad on 14.7.2017. The first meeting basically discussed on the operational aspects of the SCES. He stated that in the meeting Conduct of Business Rules (CoBR) for the Standing Committee was discussed and the same was sent along with the minutes of the meeting. The CoBR was to be signed by the nominated members and to be sent to the office of the SCES. However, states like J&K, Chandigarh, Punjab, West Bengal, Manipur, Mizoram, Meghalaya, Nagaland Tripura and Arunachal Pradesh are yet to furnish the signed copy of the CoBR. He requested all the participants to furnish the CoBR at the earliest. He stated that since, the comments/views from the members on the MoM of the 1st SCES has so far not been received by his office, so the minutes of the first SCES may be taken as confirmed. The members agreed for the same.

ii) Member Secretary stated that after the first meeting of the SCES three new organizations i.e., Indian Railways, DGMS and DGFASLI, who are very much associated with the inspection fraternity as well as linked with the Electrical Safety Regulation have sent their nomination for members of the SCES. The following Members have been nominated by these organizations:

Directorate General Factory Advice Service & Labour Institutes (DGFASLI)	i) Deputy Director General
Indian Railways	i) Director/Electrical Engineer (Power Supply), Ministry of Railways, Railway Board. ii) Dy. Chief Electrical Engineer (Power Supply), Northern Railways.
Directorate General of Mines Safety	iii) Chief Electrical Inspector/Dy. Director General (Elect.), DGMS, Dhanbad

iii) He requested the Members to approve the nomination. The Members agreed with the nominations.

2. Agenda 2: Guidelines for appointment of Chartered Electrical Safety Engineer (CESE)

i) Member Secretary stated that the issue of framing guidelines for the CESE has been incorporated in the Regulation and as per that a guideline for CESE should be in place within three months after the notification of the second amendment of CEA Safety Regulation. The Electrical Inspector, CEA read out the detailed guidelines framed for the CESE. The guidelines were discussed point by point.

ii) On point 3A of the draft guidelines, the members were of the view that the 3A should be read as under:

“The Chartered Electrical Safety Engineer shall be an Electrical Engineering degree holder or equivalent degree with at least five years’ experience in operation and maintenance of electrical installations and also should have the knowledge of the works related to observance of electrical safety regulations or an electrical engineering diploma holder with at least ten years’ experience in operation and maintenance of electrical installations and also should have the knowledge of the works related to observance of electrical safety regulation”.

iii) About Part B, the members were of the view that the same should be read as under:

“He/she shall qualify the prescribed test/interview conducted by Electrical Inspectorate Department of the concerned Government, after paying the requisite fees.”

iv) The members were also of the view that the procedure of authorization of CESE should be decided by the respective Government. However, any syllabus for the test/interview for authorization should be common throughout India. To arrive for a common syllabus a sub-committee from amongst the members of the Standing Committee should be formed.

v) Member Secretary agreed with the view of the members for forming a sub-committee. It was decided that the sub-committee would be formed with the following Members:

- i) CEI, Telangana
- ii) CEI, Kerala
- iii) CEI, Maharashtra
- iv) CEI, Assam
- v) CEI, Odisha
- vi) Electrical Inspector, RIO (North)
- vii) DDG, DGFASLI

This Committee would draft the syllabus for the written test for authorizing a person to become a CESE and put it up to SCES in the subsequent meeting for taking a final view on the same.

vi) Part 3C was agreed by the Members. On part 3D the members were of the view that the retired CEI/EI, who were already notified and worked in the Electrical Safety Department of the appropriate Government, would be eligible for CESE. However, State Government would have the responsibilities to take a

decision on exemption for the test/interview for retired Chief Electrical Inspector/Electrical Inspector.

vii) Parts 3E and 3F was agreed by the Committee. As regard to testing equipment at Annexure-II the following change has been suggested:

“In place of megger, CESE may also have earth insulation test.”

viii) As regard to Part 4 i.e., Scope of Work, the members were generally in agreement.

ix) As regard to Part 5 i.e., Duties and Responsibilities of CESE on point 5 (2) the members were of the view that CESE cannot inspect, they can only be given the responsibility of testing and giving their views. Further, the members also stated that there is a need to modify Forms I, II and III as the case may be and the CESE would need to furnish the photographs/videos of the test of the apparatus carried out by him along with the Forms. The proposal was agreed by the members.

x) Member Secretary said that the Sub-Committee, which has been given the responsibility for the framing the syllabus for the test should also take up the responsibility of modifying the forms I, II and III. As such, 5(2) may be read as under:

“He/she shall test electrical installations and keep record thereof in Forms I, II and III as the case may be and submit the same along with the photograph/video of the apparatus tested to the respective office of the CEI/EI, within seven working days from the date of testing and will also produce the same at the time of renewal.”

xi) Part 3 of 5 was agreed by the members. On part 4 of 5 members were of the view that the same may be modified as under:

“If on inspection of installation of owner or supplier or consumer, as the case may be, the CESE is satisfied that the installation is likely to be dangerous for the use of electricity, he/she shall bring the same to the notice of the owner and the office of the Chief Electrical Inspector/Electrical Inspector

within a period of 48 hours from the date of testing. The CEI/EI on receipt of such notice should take immediate action as per Regulation 31.”

xii) On Para 6 Members of the view that the fee should be fixed for the installation within a premises and which should be as under:

(a) Testing of electric installation in a single premise up to notified voltage under regulation 43 is Rs. 5000/-.

(b) For periodic testing of installation in a single premise under Regulation 30 is Rs. 3000/-.

xiii) Members also desired that all fees to be levied by the CESE from the utilities should be received in modes other than cash.

xiv) Para 7 was agreed by the members. Para 8A and 8B was agreed by the members.

xv) On item 8C, the members opined to modify the authorization of CESE initially for a period of three years at the time of registration and the authorization would be extended for a period of additional two years at a time by the office of the CEI/EI based on the performance of CESE. However, the authorization will cease automatically when he or she attains the age of 65 years. There would be only one time fees of Rs.10000/- for the registration as CESE.

xvi) Item 8D was also agreed by the Member. The members opined for modifying item at 8E as

“any electrical installation which have been checked/tested by CESE could be inspected/revisited by the CEI/EI in case he/she is not satisfied with the check/testing carried out by CESE”

xvii) 8F “the testing equipment used by the CESE should be calibrated at any NABL accredited laboratory at least once in every two years”.

Therefore, the revised draft guideline is enclosed at **Annexure-A.**

3. Agenda 3: Amendments Proposed by the States

i) The amendment proposed by the CEI, Kerala was read out one by one. On the proposal under Regulation 2, i.e. for inclusion of the definition of CESE,

notified voltage and self-certification, it was informed that the definition for CESE, notified voltage as well as self-certification has already been provided in the first amendment carried out during 13th April, 2015 at 2(A)(fa), 2(F)(zka) and 2(G)(zwa). As such, there is no need for any modification in this regard.

ii) On the definition of Chartered Electrical Safety Engineer as given in 5A of the regulation following changes were suggested:

“The appropriate government may **delegate CEI/EI to** authorize Chartered Electrical Safety Engineer having the qualification and experience as specified in sub-regulation (2) of regulation 5 to assist the owner or supplier or consumer of electrical installation for the purpose of self-certification under regulation 30 and regulation 43.”

iii) The amendment proposed under 6(1) and 7 (1) for appointing only Electrical Engineer degree holder for maintenance on any part or whole of electric power plant was also not agreed as in a power plant the maintenance work requires knowledge in diverse field beside Electric Engineering.

iv) Amendment proposed under 13 (4) was agreed and to be modified as under:

“**The service lines and apparatus on consumer’s premises.** “The consumer shall ensure that the installation under his control is **kept in safe condition.**”

v) Amendment in 19(3-a)-**Handling of electric supply lines and apparatus-** was agreed to be modified as under:

“No person shall **operate and undertake maintenance work on any part or whole of an electric power plant together with the associated substation or** electric supply line or apparatus and no person shall assist such person on such work, unless he is designated in that behalf under regulation 3 (1) or appointed under regulation 6(1) or regulation 7(1), **or**

permitted under regulation 29 and takes the safety precautions as given in Part-II, Part-III and Part-IV of Schedule-III.”

vi) Proposal in Amendment in 26(2)-Accidental charging-was agreed by the Members. The para may now be read as

“Where alternating current and direct current circuits are installed on the same box or support, they shall be so arranged and protected that they shall not come into contact with each other when live and **in such case unearthed direct current system shall be used.**”

vii) Under Regulation 29-Penal provision- was not agreed as penalty could be covered only in Act and not in regulation.

viii) Amendments proposed in Regulations 37(iii)(a), 43(1), 43(4)(i), 45(2)(iv), 45(2)(v) and 45(2)(vi) were not agreed.

ix) Proposal under Regulation 60 was agreed. The same may be read as:

Clearance from building of lines and service lines not exceeding 650 V:

(1) **“An overhead line shall not cross over an existing building and no building shall be constructed under an existing overhead line, as far as possible.”**

x) The proposal under Regulations 61, and 65(3) were not agreed.

xi) **The proposal brought out by CEI, Uttarakhand Power Corporation Limited, Dehradun:** Under the proposal (1) i.e. certificate of CESE to be mandatory for all high rise building was not agreed.

xii) The proposal (2) on penal measures on CESE which is covered in the guidelines for CESE.

xiii) The other proposal by Chief Safety Commissioner, Kerala State Electricity Board regarding competency certificate was not agreed.

4. Agenda 4: proposal for changes in the guidelines for issuance of the competency certificate for electrical technicians.

Member Secretary SCES stated that Delhi DISCOMs has indicated that they have given the maintenance of their 11 kV substations to electrical contractors who have got electrical technicians to do all the maintenance works in the substations. These electrical technicians have been working with the contractors for long period and many of them does not have requisite qualification for getting competency certificate. As such, they are facing problem of working without any legal standing and in the event of any electrical accident, there may be issue of payment of compensation and other benefits to them.

As per the guidelines of Labour Department, Government of Delhi, for obtaining the competency certificate for the electrical technician, the candidate having ITI qualification are given the competency certificate for technician directly. However, the candidate who does not have adequate qualification but has got experience are required to take exam conducted by the Labour Department of Delhi Government and on qualifying the exam they are eligible to get the competency certificate for technician. However, Government of Delhi for the last many years was not taking any exam and vide gazette notification dated 27.1.2017 has indicated that they have stopped taking any exam. With the result, many of the contractual workers working with Delhi Discoms did not got any opportunity to qualify in the exam for getting competency certificate for electrical technician.

The issue was deliberated with the representatives from M/s BSES Rajdhani Power Limited, M/s Tata Power Delhi Distribution Limited, Power Sector Skill Council and Electrical Inspector of Delhi, wherein the participants were generally of the view that as per Section 29 of CEA Regulation, there is a provision for taking exemption by the State Government through notification in official gazette regarding the conditions for issuance of the competency certificate for electrical technician. Delhi government was requested to make necessary changes in this regard by taking the help of the Power Sector Skill Council which is recognized by Ministry of Skill Development government of India. Power Sector Skill Council can give training to the workmen in appropriate module and after requisite examination issue them certificate and based on that Delhi

Government could issue them competency certificate for Electrical Technician. Since, Government of Delhi have not responded to the letter from the office of CEI, CEA, as such, Member Secretary requested the members that since the issue is common to many State, so if members agrees, following changes could be considered in 6(2) and 7(2) of the regulation i.e.

“The technician to assist engineers or supervisor shall possess a certificate in appropriate trade, preferably with two years course from ITI recognized by the Central Government or the State Government.

Provided that in case the technician does not have the requisite qualification as stated in 6(2) or 7(2), he/she may go through the specialized training course from Power Sector Skill Council (PSSC) or technical training institute accredited by CEA and obtain a certificate of successful completion of the course. The competency certificate could be issued by the competent authority of the State Government based on the certificate issued by PSSC or technical training institute accredited by CEA.

Provided that the specialized training for the workers in their respective modules should not be less than i) 80 hours module for applicants who are having five years or more experience and 350 hours' module course for the applicants who are having less than five years' experience.

The proposal was unanimously agreed by the members.

5. Agenda 5: presentation on firefighting system by

- i) M/s Nitin fire Protection Industries Limited.**
- ii) M/s Easun-MR Type Changes Pvt. Ltd.**
- iii) M/s CTR Manufacturing Industries Pvt. Ltd**

Member Secretary stated that DG fire safety, Civil Defense and home Guard government of India vide his letter No. VIII-110011/07/16-GCD dated 29.08.2017 has indicated that the Central Electricity Authority Regulations (Measures relating to Safety and Electric Supply), 2010 recommendations are broadly focused on fire protection and extinguishing methods, beside suitable equipment's like providing HVWS system or NFPS for 10 MVA and above oil filled transformer with oil capacity more than 2000 litre. Nothing has been mentioned

about fire prevention measures as per NFPA-850. Considering this, presentation has been arranged from three eminent fire protection equipment manufacturers, which focuses on faster fire quenching techniques to fire prevention. He requested the members to listen to the presentation and express their views on each technology.

The presentation of each of the presenters is attached at **P1, P2 & P3**. Members may see the presentation and furnish their views on each of the technologies.

Additional Agenda 5: Presentation on ELECTRICAL SAFETY, Fault Protection in LV system Fire & Electrocuton

A presentation was given by Mr. Gopa Kumar on electrical safety, protection in LV system Fire & Electrocuton, the copy of the presentation is at **P4**.

Member Secretary, the main aim of the electrical inspectorates is to reduce electrical accidents. However, due to some reasons the electric accidents in our country is not declining. He stated that making proper regulation is a way for prohibiting people from doing things in a wrong manner or advising people for doing things as per regulation. However, making people understand the issue and take necessary preventive measures as per regulation is the need of the hour. He highlighted the need on proper sensitization of the people at district, block and village level on electrical safety so that the message of an electrical safety requirements is passed on to the people/user directly. From the Standing Committee, a team of expert trainer/speaker on electric safety would be created and wherever required they would extend the required help to the State agency on sensitization of the people on the need for electrical safety. He requested the members to take up the issue of sensitization in their states in proactive manner. The standing committee is with them in this endeavor at all time.

ANNEXURE-I

LIST OF PARTICIPANTS OF THE 2ND MEETING OF THE STANDING COMMITTEE ON ELECTRICAL SAFETY HELD ON 14.7.2017 AT HYDERABAD, TELENGANA

Sl. No	Name Shri/Smt.	Designation	Mobile	E mail
	CEA			
1	P K Mhaske	Member (PS)		
2	B K Sharma	Principal Chief Engineer		bkscea@gmail.com
3	Goutam Roy	Chief engineer	8376817933	goutamroy.715@gmail.com
4	Santosh Kumar	Dy. Director, CEI,	8860754509	ksantoshcea@gmail.com
5	R K Meena	Dy. Director, CEI,	9871765424	rkmeena.cea@gmail.com
6	Lalrinsanga,	Director, RIO(NER)	9436161886	lalrinsanga79@gov.in
7	Prakash Khichi	RIO (North)	9212092617	prakashkhichi@gmail.com
8	Mary Francis	Dy. Director, RIO(South)	9176482184	maryfrancis9@yahoo.co.in
9	Subrato Paul	Dy. Director RIO(East)	9051089897	subhro.cea@gov.in
10	Sachin K Bhaise	Dy. Director, RIO(W)	9819956260	sachinkbhise@gmail.com
	Andhra Pradesh			
11	T Ajaya Babu	CEI	9440173651	ajaythella@gmail.com
	Assam			
12	Akhil Chandra Khatnaniar	CEI	9435194288	ceia.assam@gmail.com
13	Utpal Konwar	Dy. CEI	9954052725	ceia.assam@gmail.com
	Chhattisgarh			
14	M S Ratnam	OSD to Minister of Energy		
15	N K Bizora	ED (OCM)/CSPGCL	9407739777	nkb.ete@gmail.com
16	B R Soni	ED (SLDC)/CSPTCL	9425188807	celdcg@sldccg.com
17	Girish Gupta	EE (SLDC)	9827115065	ra.csldc@sldccg.com
18	Harsh Gautam	CE (JR)	9406054944	harshgautamji@gmail.com
19	Kailash Narnawre	EO (BR)	9425561432	narnawre.k@gmail.com
20	V K Markam	EE (C&P)	8817376170	vishnu.markam@gmail.com
21	A K Pradhan	Sr. Divn. Ele: Engr.SEC Rly	9752877300	asokkumar9786@gmail.com
22	T K Meshram	Addl. CE	9424133797	
23	W R Wankhede	CE	9425562412	waman5723@gmail.com
24	K S Manothiya	ED	9826710989	ksmanothiyaykse@gmail.com
25	M Jamulkar	Addl. CE	9425559877	mjamulkar@gmail.com
26	Ashok Kumar Veram	SE/CSPTCL	9425234043	akverma.esptcl@gmail.com
27	Vivekanand Pandey	CE/CSPDCL	9425204352	
	Delhi			
28	Mukesh Sharma	EI	9810098378	mukeshsharma.ei.delhi@gmail.com
29	Hitesh Kumar	DGM, DTL	9999533662	hiteshkumar.dtl@gmail.com

	Gujarat			
30	Haiderali Khoja	CEI	9898267827	cei-epd@gujarat.gov.in
31	Ashwin Chaudhari	Dy. CEI	9825090701	ashwinchaudhari22@yahoo.com
	Haryana			
32	V K Agrawaal	CEI	989929131	cei-goh@gmail.com
33	Gulshan Nagpal	SE	9313472660	setsfbd@hvdn.irg.in
	Himachal Pradesh			
	Absent			
	Jammu & Kashmir			
34	Mohammad Yousuf Baba	CEI	9596220421	dhicjk@gmail.com
	Jharkhand			
35	B K Sinha	CEI	9431171470	Bijayenergy71@gmail.com
36	K Kanta Rao	DGMS, Dhanbad	9471192445	
	Karnataka			
37	H B Lakshmeesha	ACEI	9845453759	hblsha@gmail.com
38	K B Shashiraj	ACEI	9844169919/ 9448297664	shashirajkb21@gmail.com
39	M V Sashidhar	ACEI	9448140177	mvsdhar@gmail.com
	Kerala			
40	Raghavan K P	Addl. CEI	9447357201	raghavansreeragam@gmail.com
41	V K Sagar	Dy. CEI	9447179410	vksagar91@gmail.com
42	Sunny Mathew	Dy. CEI	9447268103	sunnymathew5878@gmail.com
43	A V Jaya Rajan	Dy. EI	9447108511 9496830945	avjrei@gmail.com
44	Suku R	CE KSEB	9446008137	srsuku@gmail.com
45	Jayashankar	Dy CE, KSEB	9446008417	jayasankarkseb@gmail.com
	Madhya Pradesh			
46	Sudhir Chourey	Div. EI	9406840400	sudhir.chourey2011@gmail.com
47	A K Dubey	D.CE (ES) & DCEI	9425086079	akhileshkumardubey@rediffmail.com
	Maharashtra			
48	S R Bagde	CEI	9022720899	cei.nrg-mh@gov.in
49	N G Beharam	EI	9987362710	cei.nrg-mh@gov.i
	Manipur			
50	L Poireiton Meitei	Manager D&M	7085058419	poivei52@gmail.com
	Meghalay			
51	P K Shullet	Sr. E.I.	9856040800	pkshullet@gmail.com
	Mizoram			
	Absent			
	Nagaland			
	Absent			
	Odisha			
52	R B Panigrahi	EI	9437342804	bbpanigrahi1959@gmail.com
53	Hrishikesh Mehar	AEE-cum-AEI	8018467038	hkmeher777@gmail.com

	Puducherry			
54	R Murali	Supdt. Engineer Master Plan & Outlaying Region	9489080302	se2ped.pon@nic.in
	Punjab			
	Absent			
	Rajasthan			
55	Gauri Shankar Jeengar	Sr. Electrical Inspector	941262244	gspjingar@gmail.com
	Telangana			
56	A.G.Ramana Prasad	CEIG	7382618550	ceig.telangana@gmail.com
57	B S Rajoo	Dy. CEIG	9440672750	bommidi.rajoo@gmail.com
58	S Srinivasa Rao	EI	988447051	raosrirangam@yahoo.co.in
	Tamil Nadu			
59	P Manohar	CEIG	9884375805	manohar24chen@gmail.com
	Uttar Pradesh			
60	Mithlesh Kumar	Dy. Director	9415033290	medhasinghsavita@gmail.com
	Uttarakhand			
61	Girish Chandra	EI/Director	9412005586	ei_uttarakhand@yahoo.com
62	Nikhil Datta	AEIG	9956780708	data.nikhilesh@gmail.com
63	M/o Labour			
64	Dr R K Elangovan	Dy. DG DGFASLI	7039040005	rke@dglasli.nic.in
	Railways			
65	Punit Agarwal	Director Elect. Engg. (Power Supply)	9910487331	deeps@rb.railnet.gov.in
66	P S Dhaka	Dy. CEE/NR	9717630304	
	Industry			
67	Kunal Shah	Director, Nitin Fiter	9821357612	shahkunar@nitinfire.com
68	Dinesh Sharma	Head, Business CTR Mfg.	9599400863	dcp11314@ctr.in
69	Gangadhar Patel	OPTCL, Odisha	9438907823	ele.gpatel@optcl.co.in
70	S Gopakumar	Cape Electric	9962522244	gk@capeindia.net

Subject: Guideline regarding authorizing the Chartered Electrical Safety Engineer (CESE).

In accordance the Regulation 5A of CEA (Measures relating to Safety and Electric Supply) Regulations, 2018 (as amended), the Central Government has introduced Self certification of the electrical installation by the owner or Chartered Electrical Safety Engineer (CESE) upto the notified voltage. The relevant clauses on self-certification of the aforesaid regulation are reproduce below:

Back ground Note:

- "Chartered Electrical Safety Engineer.-(1)** The Appropriate Government shall authorise Chartered Electrical Safety Engineers from amongst persons having the qualification and experience as specified by the Authority under sub-regulation (3) of regulation 5 to assist the owner or supplier or consumer of electrical installations for the purpose of self-certification under regulation 30 and regulation 43.
- (2) The Appropriate Government shall upload the name of the chartered Electrical Safety Engineer, as soon as any person is authorized as Chartered Electrical Safety Engineer, on the web portal of the Government or Department dealing with matters of inspection of electrical installations for the information of the owner or supplier or consumer.
- (3) The Central Electricity Authority shall, within a period of three months, frame and issue the guidelines including the eligibility conditions for authorizing the Chartered Electrical Safety Engineer."

In accordance with the above provision Central Electricity Authority is issuing the Guidline for Self certification of the electrical installation by the Chartered Electrical Safety Engineer (CESE), as under:

- 1. Short title and Commencement.-** (1) These guidelines may be called the "Detailed guidelines for appointment of Chartered Electrical Safety Engineers

(CESE)" under sub regulation 5A of Central Electricity Authority (Measures relating to Safety and Electric Supply) Amendment Regulations, 2018.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. **Definitions:** (1) In these regulations, unless the context otherwise requires,

(a) "Chartered Electrical Safety Engineer" means a person authorised by the Appropriate Government as referred to in regulation 5A;";

(b) "Notified Voltage" means a voltage notified by the appropriate Government under intimation to the Authority for the purpose of specifying the voltage level upto which self-certification is to be carried out under regulation 30 and regulation 43;";

(c) Words and expressions used and not defined in these regulations but defined in the Electricity Act shall have the meanings respectively assigned to them in the Electricity Act, 2003.

3. **Qualification of Chartered Electrical Safety Engineer:**

(a) The Chartered Electrical Safety Engineers shall be an Electrical Engineering degree holder or equivalent degree with at least five years experience in operation and maintenance of electrical installations and also should have the knowledge of the works related to observance of electrical safety regulations or an Electrical Engineering Diploma holder with at least 10 years of experience in operation and maintenance of electrical installations and also should have the knowledge of the works related to observance of electrical safety regulations.

(b) He/ She shall qualify the prscribed test/ interview conducted by Electrical Inspectorate Department of the concerned Government, after paying the requisite fees. The procedure for the test/interview shall be decided by the respective Government.

(c) He/She shall have the knowledge of Central Electricity Authority (Measures relating to Safety and Electric Supply), Regulations, 2010 (as amended) and

other relevant Act and Regulation related to electricity supply in the respective State Government.

- (d) Retired Chief Electrical Inspector/ Electrical Inspector who were already notified by Appropriate Government would be eligible for CESE. However, state Government would have the responsibility to take the decision on exemption for test/ interview for retired Chief Electrical Inspector/ Electrical Inspector.
- (e) The Chartered Electrical Safety Engineers shall not hold any post in Govt./Semi Govt./PSUs or associated with any organisations which directly or indirectly influence the working of CESE.
- (f) He/ She shall for all the time in his possession have the basic testing equipments (some basic testing equipment given in Annexure-I) as may be prescribed by the office of the Chief Electrical Inspector/Electrical Inspector for testing of the electrical installations.

4. Scope of work: The Chartered Electrical Safety Engineers shall assist the owner or supplier or consumer of electrical installations for the purpose of self-certification upto the level of notified voltage under regulation 30 and regulation 43 of Central Electricity Authority (Measures relating to Safety and Electric Supply), Regulations, 2010 (as amended), provided those installation are not be covered under section 54 of Electricity Act, 2003.

5. Duties & Responsibilities of Chartered Electrical Safety Engineer:

- 1. He / She shall carry out recommended tests as per the relevant Regulation and Standards.
- 2. He / She shall test electrical installations & keep a record thereof in Form-I/ Form-II/ Form-III as the case may be (attached in annexure- II) and submit the same along with photographs/ vedio of the apparatus tested to the respective office of the Chief Electrical Inspector (CEI)/ Electrical Inspector (EI) within seven working days from the date of testing and will produce the same at the time renewal.

3. The Owner shall carry out the recommendations given by the CESE in his report, within the time prescribed in the report. In case the owner fails to rectify the shortcomings as identified by the CESE even after the prescribed period, the CESE shall inform the same to the office of the Chief Electrical Inspector/ Electrical Inspector within a period of 15 days from the expiry of the time prescribed in the report of rectification. Such records shall be made available to the office of the Chief Electrical Inspector/ Electrical Inspector by the owner/ CESE, as and when required.

4. If, on inspection of installation of the owner or supplier or consumer, as the case may be, the CESE is satisfied that the installation is likely to be dangerous for the use of electricity, he/ she shall bring the same to the notice to the owner and the office of Chief Electrical Inspector (CEI)/ Electrical Inspector within the period of 48 hours from the date of testing. The CEI/EI on receipt of such notice should take immediately action as per Regulation 31.

6. Fees and leavy chages of CESE:-

- (a) Testing of electrical instalation in a single premise up to notified voltage under Regulation 43 is Rs. 5000/-.

- (b) Periodic Testing of electrical instalation in a single premise up to notified voltage under Regulation 30 is Rs. 3000/-.

Fees to be levied by the CESE from the Utilities shall be received in the modes other than cash.

7. Accessibilibility of CESE to the Consumers: The Appropriate Government shall upload the name of the authorised chartered Electrical Safety Engineer, within 15 days, on the web portal of the Government or Department dealing with matters of inspection of electrical installations for the information of the owner, supplier and consumer.

8. Others term and condition:

- (a) It shall be the responsibility of owner of the Installation to maintain & operate the installation in a condition free from danger and as recommended by the manufacturer /CEI/EI/CESE or by the relevant codes of practice of the "Bureau of Indian Standards."
- (b) The authorisation of a Chartered Electrical Safety Engineer shall be liable to be suspended or cancelled by the Chief Electrical Inspector/Electrical Inspector, if he/she is found to be indulging in willful negliagence, mal-practice , misuse or any other activities affecting directly and in-directly the safety of electrical installations. However, no such authorisation shall be suspended/ cancelled unless an opportunity of being heard is given to the concerned CESE.
- (c) The authorisation of a Chartered Electrical Safety Engineer shall be intially for the period of three years at the time of registration and the authorisation shall be extended for a period of additional two years at a time by the office of the CEI/EI based on the performances of CESE. However, the authorization will cease automatically on his/her attaining the age of 65 years. There shall be only one time fees of Rs. 10000/- for the registration as CESE.
- (d) In case of any dispute arising between CESE and owner or supplier or consumer on the inspection, the decision of the Electrical Inspector of the respective Government on the same, shall prevail.
- (e) Any electrical installation which have been checked/tested by the CESE could be inspected/ revisited by the CEI/EI in case he/ she is not satisfied with the check/ testing carried out by CESE.
- (f) The testing equipment used by the CESE shall be calibrated at any NABL accredited laboratory at least once in every two years.

Annexure-I

Basic testing equipment.

- 01.Voltmetre:** use to measure the voltage of any equipment/electrical appratus.
- 02.Ammeter:** an instrument for measuring electric current in amperes.
- 03.Multimeter:** A multimeter can measure voltage, current, and resistance.
- 04.Megger/ Earth Insulation Tester:** an instrument for measuring the resistance of electrical insulation.
- 05.Line Tester.**
- 06.Tong-tester:** An electrical meter with integral AC current clamp is known as a clamp meter. clamp-on ammeter or tong tester.
- 07.Safety Helmet:** It should be availble as per indian standarad (IS:2925).
- 08.Safety Belt:** It should be availble as per indian standarad (IS: 2521)
- 09.Safety Shoes:** It should be availble as per indian standarad
- 10.Hands Gloves:** It should be availble as per indian standarad
- 11.Others necessarry testing kits:** as suggesteed by the office of the CEI/EI.