



भारत सरकार/ Govt. of India  
विद्युत मंत्रालय/Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority  
मुख्य विद्युत निरीक्षणालय प्रभाग/ Chief Electrical Inspectorate Division  
-18ए, शहीद जीत सिंह मार्ग/18-A Shaheed Jeet Singh Marg  
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सं: मु./नि.वि. 1/11/2017/2018

दिनांक: 26/10/2017

To

As per list attached

**Subject: Agenda for the Second meeting of the Standing Committee on Electrical Safety.**


Sir,

The second meeting of the Standing Committee on Electrical Safety is going to be held on 21<sup>st</sup> December, 2017 at 10.30 AM in Hotel Venington Cort, Raipur, Chhattisgarh. The Agenda of the meeting would be as under:

- i) Approval of the minutes of the first meeting of the Standing Committee on Electrical Safety held on 14.7.2017 in Hyderabad in the State of Telangana.
- ii) Guidelines for appointment of Chartered Electrical Safety Engineer (Draft enclosed)
- iii) Amendments in the CEA Electrical Safety Regulation 2010 proposed by the Members (Draft enclosed)
- iv) Proposal for changes in the guidelines for issuance of the competency certificate for Electrical technicians (Draft enclosed)
- v) Presentation on fire-fighting system by:
  - (a) M/s. Nitin Fire Protection Industries Limited
  - (b) M/s Easun-MR Type Changes Pvt. Ltd.

You are requested to make it convenient to attend the meeting. The details of the Agenda is available in CEA website <http://www.cea.nic.in/cei.html>.

Yours faithfully,

  
(Goutam Roy)  
Chief Engineer  
Member Secretary, SCES

**list of nominated members-**

S. N	State/UT	Name Shri/Smt.	Designation	Mobile	E-mail	Address
1.	Andhra Pradesh	J Padma Janardhan Reddy	Director of Electrical Safety & CE/IG CE, APSPDCL	7382618555 9440811744	apceig@gmail.com cezonevja@gmail.com	16th, 1st Ln, Brodipet, Guntur, Andhra Pradesh 522002 K. Raja Bapaiah, Chief Engineer, Operation, Vijayawada Zone APSPDCL, Vijayawada
2.	Assam	Sh. Akhil Chandra Khataniar	CEI-cum Adviser (I/c), Assam	9435194288	assam.sda@gmail.com	O/o Chief Electrical Inspector-cum- Adviser, Assam, Housefed Complex, 1 <sup>st</sup> Floor, West-end Block, Dispur, Guwahati- 781006
3.	Chhattisgarh	Sh. H. Toppo,	Executive Engineer (Electrical Safety) & Divisional Electrical Inspector	9827972134	raipurdei@gmail.com	246, Aam Bageecha, Sundar Nagar, Raipur
4.	Delhi	Vivekanand Pandey	CE, CSPDCL	9425204352	vivekanandpandey2000@gmail.com	B Block, second floor, Indravati Bhawan, Naya Raipur(C.G.)
		Mukesh Kumar Sharma	Electrical Inspector, Delhi	9810098378	mukeshsharma.ei.delhi@gmail.com	Electrical Inspectorate, O/o Labour Commissioner ,5, Sham Nath Marg, Prema Kunj, Civil Lines, New Delhi, 110054
		Yoginder Singh Lathar	Electrical Inspector, Delhi	9990062800	lathey_20@yahoo.com	Electrical Inspectorate, O/o Labour Commissioner ,5, Sham Nath Marg, Prema Kunj, Civil Lines, New Delhi, 110054
5.	Gujarat	Hitesh Kumar	DGM, DTL	9999533662	hiteshkumar.dtl@gmail.com	Room No. 103, 1st Floor, Shakti Sadan, Kotla Marg, New Delhi-110002
		Shri P.N.Gandhi	Chief Electrical Inspector, Govt. of Gujarat	079- 23256644 9978405252	cei-epd@gujarat.gov.in prashant_p2760@yahoo.com	Block No. 18, 6 <sup>th</sup> Floor, Udyog Bhavan, Gandhinagar
		Shri J.J.Gandhi	Chief Engineer (R&C), Paschim Gujarat Vijco. Ltd.	0281-2380427 9925210214	pgvcl_corpoff@gebmail.com cetech.pgvcl@gebmail.com	Paschim Gujarat Vij. Co. Ltd. Corporate Office, Nana Mava Road, Laxmi Nagar, Rajkot

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		Gulshan Nagpal	SE	9313472660 0129-2222132	setsfbd@hvdn.org.in setsfbd@gmail.com	220 KV GIS Sub-station, A-4, Sector-18, Faridabad
7.	Himachal Pradesh	S.K.Goel	CEI Himachal Pradesh	9418033048 0177-2621020	ceihp@rediffmail.com	Block No-29, SDA Complex, Kasumpti Shimal 171009
		Vijay Dogra	Chief Engineer (P&M), HPSEB Ltd.	9418055099	vijaidogra@yahoo.com	Vidyut Bhavan, Shimla, Himachal Pradesh-171004
8.	Jammu & Kashmir	Mohammad Yousuf Baba	Director Training, Testing, Inspection and Commissioning (Director, TTIC), JKPDD	9596220421 7006812292	dtticjk@gmail.com erbaba1011@gmail.com	<b>From November to April:-</b> TTIC Wing, J&K PDD, Behind SERC Office, PDD Complex, Ambedkar Chowk, Jammu. TEL./ FAX:- 01912479885 <b>From May to October:-</b> TTIC Wing, J&K PDD, PDD Complex, Bemina, Srinagar. TEL./ FAX:- 01942490385
9.	Jharkhand	B K Sinha	CEI, Jharkhand	9431171470	Bijayenergy71@gmail.com	MDI Building, Near Project Building, Energy Deppt. Dhurwa Ranchi
		Adam Prasad	SE, Energy Department	9471314177	adamprasad@yahoo.com	Near Nepal House, Doranda, Ranchi
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		H B Lakshmeesha	ACEI	9845453759	aceimys@gmail.com	No. 1360, G&H Block, Kuvempunagar, Aniketana Road, Mysuru Karnataka-570023
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		Raghavan K P	Addl. CEI	9447357201	raghavansreeram@gmail.com	Housing Board, Trivendrum, Kerala 695001
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		A K Dubey	D.CE (ES) & DCEI	9425086079	akhilshkumardubey@rediffmail.com	A-Wing, third Floor, Satpura Bhawan, Bhopal (M.P.)-462004
13.	Maharashtra	S R Bagde	CEI	9022720899	ceimumbai.nrg-mh@gov.in	3 <sup>rd</sup> Floor, Administrative Building, PWD Compound, RC Chemburkar Marg, Chembur (East), Mumbai-400071

14.	Manipur	S R Bagde (currently in charge)	SE, Mumbai Regional Electrical Inspection Circle, Mumbai	9022720899	ceimumbai.nrg-mh@gov.in	3 <sup>rd</sup> Floor, Administrative Building, PWD Compound, RC Chemburkar Marg, Chembur (East), Mumbai-400071
15.	Meghalaya	Sh. L Dineshkumar Singh	GM	9852464974	L.dinesh@mspdcl.com	GM, Electrical Circle no.1, MSPDCL, Manipur
16.	Mizoram	P K Shullet	Sr. E.I., Inspectorate of Electricity	9856040800	pkshullet@gmail.com	Inspectorate of Electricity Horse Shoe Building, Lower Lachumiere, Shillong, Meghalaya 793001
17.	Nagaland	Er. Lalbiaksanga	Chief Electrical Inspector	Phone: 0389- 2351170/2351 734 Fax: 0389- 2350891	sdamizoram@rediffmail.com contact@sdamizoram.com	O/o Electrical Inspectorate, Zuangtui, Aizawl, Mizoram-796017
18.	Odisha	Er. Lalbiaksanga	Superintending Engineer, SLDC	9436140932 Fax: 0389- 2311397	sldc- mizoram@rediffmail.com	Aizawl Power House Complex, Aizawl, Mizoram- 796001
19.	Puducherry	I.V.Chishi	CEI	9436004252	einspectorate@gmail.com	Electrical Inspectorate, D-Block, Midland Kohima-797001
20.	Rajasthan	Dhruba Charan Sahoo	EIC (Elect)-cum-Principal CEI	9439042386	dhrubachsahoo58@gmail.com	Engineer-in-Chief Cum Principal Chief Electrical Inspector, Unit-5, Bhubaneswar, Odisha
21.	Sikkim	N.C. Swain	CGM (Safety)	9438907954 0674-2546570	safety@optcl.co.in	ODISHA POWER TRANSMISSION CORPORATION LIMITED, Registered Office : Janpath, Bhubaneswar - 751022
22.	Tamil Nadu	R Murali	Supdt. Engineer Master Plan & Outlaying Region	9489080302	se2ped.pon@nic.in	R. Murali, SE, Electricity Department, 131, NSC Bose Road, Puducherry
23.	Uttarakhand	Gauri Shankar Jeengar	Sr. Electrical Inspector	941262244	gspjngar@gmail.com	60/118 Rajat Path, Mansarovar, Jaipur, Rajasthan-302020
24.	West Bengal	Shri D Lama	EI		acepowersikkim@gmail.com	
25.	Andhra Pradesh	P Manohar	CEIG	9884375805	manohar24chen@gmail.com	O/o Chief Electrical Inspector, Thiru Vi Ka Industrial Estate, Guindy, Chennai-600032
26.	Kerala		SEI HQ			

23. <b>Telangana</b>	A.G.Ramana Prasad	CEIG	7382618550	ceig.telangana@gmail.com	Stone Building, Mint Compound, Hyderabad - 500 063
	B S Rajoo	Dy. CEIG	9440672750	bommidi.rajoo@gmail.com	Stone Building, Mint Compound, Hyderabad - 500 063
24. <b>Tripura</b>	Ajit Ghosh	El Tripura	9436168836	electricalinspectorate@yahoo.co.co.in	P.N.Complex, Ghorkhabasti, Agartala 799006
	Mr. N. C. Das	General Manager (Technical), Tripura State Electricity Corporation Limited	9436470632	cmd.tsecl@rediffmail.com	Bidyut Bhavan, Banamalipur, Agartala-799001.
25. <b>Uttar Pradesh</b>	Mithlesh Kumar	Dy. Director	9415033290	medhasinghsavita@gmail.com	Directorate of Electrical Safety, U.P.Govt., Vibhuthikhand-2, Gomti Nagar, Lucknow, U.P.
26. <b>Uttarakhand</b>	Girish Chandra	El/Director	9412005586	ei_uttarakhand@yahoo.com	Vidyut Suraksha Vibhag, Near Heera Convent School, Badi Haldwani
	Mahesh Chandra Gupta	SE, UPCL	7500834569 75008 34567	mkgupta61@gmail.com	V.C.V. Gabar Singh Urja Bhawan, Kanwali Road, Dehradun, Uttarakhand- 248001
27. <b>West Bengal</b>	Sh. K K Dhera	Chief Electrical Inspector	9330032054	doe.cei.wb@gmail.com, cei.doe@wb.gov.in	Directorate of Electricity, Calcutta Collectorate Building, Kolkatta-700001
	Mr. Swapan Kumar Dey	Director (Distribution)	033-23197344	directordistribution708@gmail.com, swaprika@gmail.com	WBSEDCL, Bidyut Bhawan, Block -DJ, sector-IV, Salt Lake, Kolkatta-700091.

**Minutes of the first meeting of the Standing Committee on Electrical Safety (SCES) held on 14.7.2017 at Hyderabad in Telangana.**

List of the participants is enclosed at **Annexure-I**

The first meeting of the Standing Committee on Electrical Safety was inaugurated by the Special Chief Secretary, Energy Department, Government of Telangana.

Chief Electrical Inspector, Government of Telangana welcomed the Chief Guest and other participants to the meeting. He appreciated the initiative taken by the CEA for bringing out all the States on a common platform, by forming this Standing Committee on Electrical Safety. He informed the detailed program for the meeting and read out the brief Bio data for the Chief Guest, Chairman Standing Committee and Member Secretary Standing Committee. The detailed program for the meeting is enclosed at **Annexure-II**.

Member Secretary, Standing Committee on Electrical Safety (SCES) and Chief Electrical Inspector, CEA stated that the need for establishment of a link between the Centre and the State Electrical Inspectorate was long overdue. Both, the Centre and the State Electrical Inspectorates are working for the improvement of the standards of electrical safety in the country. With the formation of Standing Committee on Electrical Safety a new chapter on coordination between the Centre and the State Inspectorates would begin. He also stated that there was a need for harmonizing the guidelines for Chartered Electrical Safety Engineer (CESE) as well as for issuing licenses to electrical contractors, supervisors and wiremen. Besides these, other issues which needs to be deliberated in the Standing Committee are Amendments required in regulations from time to time due to (i) the change in technologies, (ii) problem in its implementation by the users, (iii) to remove some obsolete provisions from the regulation, (iv) An existing regulation creating hurdle in implementation of other regulations, Future technologies and the impact of this on the electrical safety, Adoption of some provisions of internationally recognized standards like IEC and EN in the regulation in absence of suitable BIS Standards, discussion on the best practices on the electrical safety and the need for sensitization of the utilities and customers on electrical safety.

Chairman Standing Committee on Electrical Safety (SCES) and Principal Chief Engineer-II, CEA expressed his concern for higher electrical accidents and the need for brain storming on the issue in the Standing Committee and carrying out subsequent changes that is required in the regulation to reduce electrical accidents. He stated that with the expansion of power sector due to the

Government policy of "Power for all" the electricity is percolating to the remotest corner of the country. With this, there is a need for revisiting the electrical safety standards for the safety of utilities and the consumers. He stated that our regulation should be user friendly so that it should be easily understandable and implementable by the common users and it should not become a cause for harassment to the industry and the common people. He said, if people understand and appreciate the importance of the regulations for electrical safety, then they themselves would come forward to follow the regulation for improving of electrical safety rather than the need for policing by Central or State Agency.

Chief Guest for the first Standing Committee on Electrical Safety (SCES) and Special Chief Secretary, Energy Department, Govt. of Telangana appreciated the efforts by the Electrical Inspectorates for improving the electrical safety. He expressed deep concern on the higher electrical fatality in the country and stated that proper steps should be taken to reduce the same. He stated that while issuing the electrical licenses, care should be taken that the contractors and its supervisors/wiremen must have proper qualification and experience. He further emphasized the need for digitization of the electrical inspectorates extensively covering the inspection details, licensing details, appointment of Chartered Electrical Safety Engineers etc. He asked to frame a draft guideline for giving licence to electric vehicles and its charging stations. He emphasized need of paying more attention for the lower voltage as the fatality rate in this area is higher.

**The inaugural session of the meeting ended with the vote of thanks to the Chief Guest and the Chair.**

The second session of the Standing Committee started with a discussion on the agenda for the first meeting of the Standing Committee on Electrical Safety.

The details of the agenda wise discussions are as under:

**Agenda 1: Finalization of Conduct of Business Rules (CoBR)**

Chief Electrical Inspector, CEA informed that the draft on the Conduct of Business Rules has been circulated to all the Members and is enclosed at **Annexure-III**. He proposed that each item of the draft CoBR might be discussed serially.

**Discussion on Conduct of Business Rules (CoBR)**

1. Under 'Short title and commencement' it was decided that the Rule shall come in force from the date of 1<sup>st</sup> Standing Committee meeting i.e. on 14.7.2017.

2. Definitions:

2.1 Under 'Definition', the Members agreed for items (a), (b) and (c).

Under (d) it was decided to modify the definition of the Member as 'Member' means, the member of the Standing Committee on Electrical Safety (SCES), nominated by the respective State Government/UTs, Member Secretary of SCES and Superintending engineer/heads of five Regional Inspectorial Organisations of CEA.

Point (e) was agreed by the members. It was also agreed to add the following para under 2.1

"It was decided that any change/modification in the Rules would be under the purview of the Standing Committee on Electrical Safety".

3. Composition of SCES:

Under the 'Composition of SCES' point Nos. 1, 2 and 3 were agreed by the Members.

Regarding Point No. 4, having provision for Chief Guest, it was decided to shift this provision to Chapter II of CoBR and include, the Supdt. Engineer/head of each of the five Regional Inspectorial Organisations.

4. Under 'Function of SCES':

Point No. (i) was agreed by the Members of the SCES

It was decided to merge Point Nos. (ii), (iii) & (iv) as point (ii) as under –

**"Consideration for amendment required from time to time due to (a) change in technologies, (b) problem in its implementation by the user (c) to delete some obsolete provisions from the regulation (d) when an existing regulation create hurdle in the implementation of other regulations and (e) Any future technology and its impact on electrical safety."**

It was agreed that Point (v) would be modified as point (iii) as under-  
**"Discussion on the proposal for adoption of some provisions of the internationally recognized standards like IEC and EN in the Regulation in absence of BIS."**



Item (vi) be modified as point (iv) as under-

**“Discussion on the best practice on electrical safety in India or elsewhere in the world”.**

Item (vii) be modified as point (v) as under-

**“Requirement of sensitization on electrical safety among all stakeholders”.**

The Members agreed for inclusion of the following additional points:

(vi) “Discussion on Review and analysis of electrical accidents in the States”

(vii) “Developing methodology for institutionalizing an Electrical Safety award to the best performing State/ organization.”

It was decided that the issue of Electrical Safety award would be deliberated in the next meeting of Standing Committee on Electrical Safety to develop methodology for institutionalizing the process for giving one award to the best performing State/ organization on electrical safety and the same would be taken up with appropriate Government authority for consideration.

(viii) “Formation of sub-committees as per requirement.”

(ix) “Change in conduct of business rules (CoBR).”

(x) “Any other issues with the permission of the Chair (with a minimum of three months advance notice to SCES Secretariat).”

5. Item no. 5 related to Secretariat of the SCES was agreed by all the members.

## **Chapter-II: Procedure for conducting the SCES meetings**

It was agreed to include the following: -

6. **Chief Guest of SCESC meeting:** The Special/Additional Chief Secretary/Principal Secretary/Secretary Power/Energy Department of the hosting state would be the Chief Guest for the Standing Committee Meeting on Electrical Safety.
7. On the periodicity and place of the meeting, it was agreed after deliberations that the meeting of SCES would be held twice in a year. A practice of clockwise rotation would be adopted. Since the first meeting was held in Hyderabad Telangana, the next meeting would be held in the Western Region and an alphabetic sequence within the region would be followed as indicated in **Annexure-IV.**

As such, the next meeting would be held in the Western Region in the State of Chhattisgarh. The representative of the State of Chhattisgarh was requested to take up preparations for the next meeting well in advance. The meeting is tentatively scheduled for the last week of December, 2017.

**8. Notice for the meeting of SCES and agenda:**

The point 7.1 was agreed by all the members.

Under 7.2 the following changes were agreed, the agenda point for the meeting has to be sent to the office of the Member Secretary at least 90 days (three months) in advance. This is instead of the earlier proposal of 30 days.

Item Nos. 7.3 and 7.4 would be merged and rephrased as: -

“Member Secretary of SCES may put up any additional agenda involving urgent matter/policy issues directly in consultation with the Chairperson, SCES.”

9. Item no. 8 of draft CoBR - Chapter II on “Effect of Non-receipt of Notice of Meeting by a Member” was agreed by members.
10. Item no. 9 of draft CoBR - Chapter II on “Cancellation / Re-scheduling of Meeting” was agreed by members.
11. Item no. 10 of draft CoBR - Chapter II on “Periodicity of Meetings” was agreed by members.
12. Item no. 11 of draft CoBR - Chapter II on Quorum of SCES Meeting, the Members agreed as under:

11.1: No change required.

11.2 “The decision in SCES would be on majority/general consensus. In case of voting, a minimum 51% of the votes are required for getting any agenda item approved. In case of a tie, the final voting right would remain with the Chairperson, SCES.”

It was also decided that the Member nominated by the State Government, Member Secretary (Standing Committee) and the Members from the five RIOs would only be having the voting right.

11.3 “The non-nominated state members may participate in the meetings of SCES as observer. They can give suggestions but have no voting right. Similarly, the Special Invitees would attend the meeting as and when invited for discussion on certain topics. They would also not have any voting right.”

13. Item no. 12 of draft CoBR in Chapter II on presiding Authority was also agreed by the members.
14. Item No. 13 of draft CoBR in Chapter II on recording of the minutes, the provision was agreed by the Members. Further it was also agreed that the draft minutes of the meeting (MoM) would be sent through e-mail within 15 working days from the date of the meeting and in case of any comments on the MoM, the same should be intimated to the Secretariat of the SCES through e-mail within seven (7) days from the receipt of the MoM through e-mail.
15. Item Nos. 14 and 15 of draft CoBR in Chapter II were agreed by the Members of the Committee.
16. Based on above, the finalized Conduct of Business Rules (each page duly signed by Member secretary, SCES) is enclosed at **Annexure V**. All the members are required to sign on the CoBR and send it to Secretariat of the SCES through e-mail as well as through post.

**Agenda 2: Co-option of new Members from Central PSUs, Private Sector and Industries in the Standing Committee.**

The issue regarding the co-option of new members was discussed and it was stated by Member Secretary Standing Committee on Electrical Safety (SCES) that with the change in the scenario, now PSU as well as private sector also have a sizeable share in generation, transmission and distribution and as such there is a need to co-opt of Members from these sectors without any voting right.

The issue was discussed in detail and the Members were of the view that as the term 'Member' is already defined in the definition of Conduct of Business Rules of the SCES and the word 'co-opt' of members may infringe of the terminology of members and may create confusion. As such, it was decided that there is no need to co-opt any new members from Central PSUs or private sector. As and when required some experts from the PSUs / private sector may be requested to participate in SCES meeting as special invitees. It was also agreed that special invitees may be called by SCES secretariat with approval of Chairperson, SCES.

**Agenda 3: Discussion on the issues to be considered as agenda item of the Standing Committee on Electrical Safety.**

It was decided to take up any issue pertaining to functions of SCES as defined in CoBR-chapter I.

**Agenda 4: Scheduling of the Standing Committee meeting.**

As mentioned in para 7 of MoM above.

The meeting ended with thanks to the chair.

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**ANNEXURE-I****List of participants in the meeting of the standing committee on electrical safety held on 14.7.2017 at Hyderabad, Telengana**

S.N.	Name Shri/Smt.	Designation	Mobile	E-mail
<b>CEA</b>				
1	B.K. Sharma	Chairperson,SCES (Principal Chief Engineer)	9968284836	bkscea@gmail.com
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9	Reeturaj Pandey	Asst. Director, CEI	9971523033	pandeyr.cea@gmail.com
<b>Andhra Pradesh</b>				
10	J Padma Janardhan Reddy	Director of Electrical Safety & CEIG	7382618555	apceig@gmail.com
11	K Raja Bapaiah,	CE, APSPDCL	9440811744	cezonevja@gmail.com
<b>Assam</b>				
12	Utpal Konwar	Dy. CEI	9954059795	utpalkonwar123@gmail.com
<b>Chhattisgarh</b>				
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15	Hitesh Kumar	DGM, DTL	9999533662	hiteshkumar.dtl@gmail.com
<b>Gujarat</b>				
16	Ashwin Chaudhari	Dy. CEI	9825090701	ashwinchaudhari22@yahoo.com
<b>Haryana</b>				
17	Gulshan Nagpal	SE	9313472660	setsfbd@hvdn.irg.in
<b>Himachal Pradesh</b>				
18	Vijay Dogra	Chief Engineer (P&M), HPSEB Ltd.	9418055099	vijaidogra@yahoo.com
<b>Jharkhand</b>				
19	B K Sinha	CEI, Energy Department	9431171470	Bijayenergy71@gmail.com
<b>Karnataka</b>				
20	H S Venkatesh	EI	9845193255	venkatesh.hs@gmail.com
21	H B Lakshmeesha	ACEI	9845453759	hblsha@gmail.com
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22	Kesavadas. V.	Chief Engineer, KSEB	9496011747	kesu272@gmail.com
23	Raghavan K P	Addl. CEI	9447357201	raghavansreeragam@gmail.com
<b>Madhya Pradesh</b>				
24	S S Mujalde	CE (EIS), CEI	9425660818	ceisbho@mp.nic.in
25	A K Dubey	D.CE (ES) & DCEI	9425086079	akhileshkumardubey@rediffmail.com

<b>Maharashtra</b>				
26	S R Bagde	CEI	9022720899	ceimumbai.nrg-mh@gov.in
<b>Meghalaya</b>				
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28	Dhruba Charan Sahoo	Principal CEI	9439042386	dhrubachsahoo58@gmail.com
29	Bibhuprasad Mohapatra	DGM (EI), OPTCL	9438907954	ele.bpmohapatra@optcl.co.in
<b>Puduchery</b>				
30	R Murali	Supdt. Engineer	9489080302	sezped.pon@nic.in
<b>Rajasthan</b>				
31	Gauri Shankar Jeengar	Sr. Electrical Inspector	941262244	gspjingar@gmail.com
<b>Tamil Nadu</b>				
32	P Manohar	CEIG	9884375805	manohar24chen@gmail.com
<b>Telangana</b>				
33	A.G.Ramana Prasad	CEIG	7382618550	ceig.telangana@gmail.com
34	B S Rajoo,	Dy. CEIG	9440672750	bommidi.rajoo@gmail.com
35	S.Srinivas Rao	EIG	7382618551	Eihyderabad1@gmail.com
<b>Uttar Pradesh</b>				
36	Mithlesh Kumar	Dy. Director	9415033290	medhasinghsarta@gmail.com
<b>Uttarakhand</b>				
37	Mahesh Chandra Gupta	SE, UPCL	7500834569	mkgupta61@gmail.com
<b>West Bengal</b>				
38	Atanu Mukhopadhyay,	Dy. CEI	9432803128	Talk2atanu@gmail.com

**FIRST MEETING OF THE STANDING COMMITTEE ON ELECTRICAL SAFETY**

**TIME & DATE FOR THE MEETING:** 10:30 HRS. ON 14. 07.2017

**VENUE FOR THE MEETING:** TAJ BANJARA HOTEL, BANJARA HILLS HYDERABAD.

**REGISTRATION TIMING: 9:30 HRS TO 10:30 HRS.**

**WELCOME ADDRESS BY CHIEF ELECTRICAL INSPECTOR, TELANGANA**

**LIGHTING LAMP**

**INAUGURAL SPEECH BY MEMBER SECRETARY (CE & CEI TO THE GOI) OF THE STANDING COMMITTEE ON ELECTRICAL SAFETY (SCES)**

**KEY NOTE ADDRESS BY CHAIRPERSON (PRINCIPLE CHIEF ENGINEER, CEA) OF THE STANDING COMMITTEE ON ELECTRICAL SAFETY (SCES)**

**SPECIAL ADDRESS BY CHIEF GUEST (SPECIAL CHIEF SECRETARY, GOVT. OF TELANGANA).**

**VOTE OF THANKS BY ASSISTANT DIRECTOR, CEA**

**GROUP PHOTOS.**

**TEA BREAK 11:30 Hrs. -11:45 Hrs.**

**AGENDA ITEMS FOR DISCUSSIONS:**

**AGENDA NO.1.** Preparation of Conduct of Business Rules (CBR) for the Standing Committee.

**AGENDA NO.2.** Co-option for new members from Central PSUs, Private Sectors and Industries in the Standing Committee.

**LUNCH BREAK 1:30 Hrs-2:30 Hrs.**

**AGENDA NO.3.** The scheduling of the Standing Committee Meeting in the states.

**AGENDA NO.4.** Discussion on the issues to be considered for the Agenda items of the Standing Committee meeting.

**TEA: 3:30 Hrs.**

**MEETING END**

**DINNER**

Draft circulated with Agenda of 1<sup>st</sup> SCES meeting held on 14.07.2017

**Standing Committee on Electrical Safety**  
**Conduct of Business Rules**

**CHAPTER I**

**GENERAL**

**1. Short title and commencement:**

These rules shall come into force from the date of its formation i.e. ....  
and shall remain in force unless otherwise modified.

**2. Definitions:**

2.1 In these Rules unless the context otherwise requires: -

- (a) 'Agenda' means the list of business proposed to be transacted at a meeting of the Committee.
- (b) 'Committee' means the Standing Committee on Electrical Safety (SCES).
- (c) 'Meeting' means a meeting of the Committee convened by Member Secretary after consultation with Chairperson, Standing Committee on Electrical Safety.
- (d) 'Member' means the member of the Standing Committee on Electrical Safety.
- (e) 'Rule' means Standing Committee on Electrical Safety (Conduct of Business) Rules, 2017.

**3. Composition of SCES:**

- 1. Member (Power System)/ Principle Chief Engineer-II, CEA - Chairperson, Standing Committee on Electrical Safety.
- 2. Nominated Officer(s) from State Govt. would be permanent Member by Designation.



3. Chief Engineer, CEI Division., CEA - Member Secretary, Standing Committee on Electrical Safety.
4. Special Chief Secretary/ Principle Secretary/ Secretary (Power) of the hosting state would be Chief Guest for the Standing Committee meeting.

#### 4. Functions of SCES

Standing Committee on Electrical Safety shall carry out following functions for amendment in CEA Safety Regulation (Measures relating to Safety and Electric Supply) Regulations, 2010:

- (i) To resolve issues arising in implementation of CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 from various State Electrical Inspectorate Department.
- (ii) Considering new amendments that is required from time to time.
- (iii) Considering new technologies and the impact of new technologies to improve the electrical safety.
- (iv) Considering future technologies to improve the electrical safety
- (v) Harmonizing the standards being prepared by various standard organisations like BIS, NEC, IEC, EN, NB C, etc.
- (vi) Discussing best practices on electrical safety in India as well as outside.
- (vii) Requirement of sensitization.

The decisions regarding the amendment would be taken in the Standing Committee meetings and would be put up to the CEA Authority directly for ratification.

## **5. Secretariat of Standing Committee on Electrical Safety.**

The office of the Chief Engineer (CEI division), CEA would be Permanent Secretariat of the Standing Committee on Electrical Safety (SCES). The Office/ Secretariat of SCES shall perform the following duties namely:

- a) To keep custody of records of proceedings of the Committee meetings.
- b) To prepare agenda for the Committee meetings.
- c) To prepare minutes of Committee meetings.
- d) To take follow-up action on the decision taken in the Committee meetings and intimate the same to Members.
- e) To collect from constituent members or other offices or any other party as may be directed by Committee, such information as may be considered useful for the efficient discharge of functions of the Committee and place the information before the Committee.

## **CHAPTER II**

### **PROCEDURE FOR CONDUCTING SCES MEETINGS**

#### **6. Place and date of SCES Meeting**

The meeting of the Committee would be held twice in a year by rotation in each region (considering 5 regions zone Northern Region, Western Region, Southern Region, Eastern Region and North-Eastern Region). It means that the meeting in a region would be held nearly after a gap of every two years. Every state in the region would take the responsibility for holding the Standing Committee Meeting consecutively.

#### **7. Notice for the Committee Meetings and Agenda**

7.1 Notice for the Committee meetings shall be issued by Member Secretary, SCES at least 21 days in advance in consultation with Chairperson, SCES. In case of emergency meetings required to be conducted to carry out urgent business, notice of one week is to be given.

7.2 The Agenda points for the meeting shall be sent to the Member Secretary by the members at least 30 days (one month) in advance of the meeting. The Member Secretary, SCES shall finalize the agenda and circulate the same to all its members at least 10 days in advance before the meeting.

7.3 Member Secretary, SCES may also put any agenda involving urgent matters/policy issues directly in consultation with Chairperson, SCES.

7.4 Member Secretary, SCES may convene a meeting at short notice on any urgent matter in consultation with Chairperson of the SCES.

#### **8. Effect of Non-receipt of Notice of Meeting by a Member**

The non-receipt of notice by any member of SCES shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

#### **9. Cancellation / Re-scheduling of Meeting**

If a meeting is required to be cancelled or rescheduled the same shall be intimated to the members at the earliest by telephone / fax/ email.

#### **10. Periodicity of Meetings**

The Committee members shall meet at least once in six months. However, the Committee if required may meet any time to discuss any urgent issue as and when required in consultation with Chairperson, SCES.

#### **11. Quorum of SCES Meeting**

11.1 The quorum of the meeting shall be 50% of its members.

11.2 SCES would take decisions based on majority/ general consensus of the strength present.

11.3 Members of SCES and SCES Secretariat shall participate in Committee Meetings. The Special invitees by the Committee may also attend the meeting.

## **12. Presiding Authority**

12.1 The Chairperson, SCES shall preside over the meetings of SCES and conduct the meeting. The Member Secretary, SCES shall assist the Chairperson of SCES in conducting the meeting. If the Chairperson is unable to be present at the meeting for any reason, Principle Chief Engineer-II, CEA would preside over the meeting.

12.2 In the absence of Member Secretary, the Officer as designated by Chairperson, SCES shall function as Member Secretary to assist Chairperson, SCES.

## **13. Recording of the Minutes**

The minutes of the meeting shall be finalized and circulated to all its members by the Member Secretary, SCES normally within 15 working days from the date of the Committee Meeting.

## **14. Confirmation of the Minutes**

Minutes of the SCES meeting shall be placed in the next meeting for confirmation. However, in case of urgency the minutes may be confirmed by circulation.

## **15. Funding**

The host state where the meeting is scheduled would be required to bear the expenditure for hosting the meeting.

## **CHAPTER III**

### **MISCELLANEOUS**

## **16. Savings of inherent Power of the SCES**

16.1. Nothing in these Rules shall bar the SCES from adopting a procedure that is at variance with provisions of these Rules, if the SCES in view of the special circumstances of a matter or class of matters

deem it necessary or expedient to deal with such a matter or class of matters.

16.2. Nothing in these Rules shall expressly or by implication, bar the SCES to deal with any matter or exercise any power for which no Rules have been framed and SCES may deal with such matters, and functions in a manner it thinks fit.

(Goutam Roy)

Member Secretary, SCES

Dated: 14.07.2017

**Signature by all the Members from the States.**

- |                       |                     |
|-----------------------|---------------------|
| 1. Chandigarh         | 2. Delhi            |
| 3. Haryana            | 4. Himachal Pradesh |
| 5. Jammu & Kashmir    | 6. Punjab           |
| 7. Rajasthan          | 8. Uttar Pradesh    |
| 9. Uttarakhand        | 10. Chattisgarh     |
| 11. Gujarat           | 12. Madhya Pradesh  |
| 13. Maharashtra       | 14. Goa             |
| 15. Andhra Pradesh    | 16. Karnataka       |
| 17. Kerala            | 18. Tamil Nadu      |
| 19. <i>Telangana</i>  | 20. Tripura         |
| 21. Bihar             | 22. Jharkhand       |
| 23. Odisha            | 24. Sikkim          |
| 25. West Bengal       |                     |
| 26. Arunachal Pradesh |                     |
| 27. Assam             | 28. Manipur         |
| 29. Meghalaya         | 30. Mizoram         |
| 31. Nagaland          |                     |

**List of States in alphabetic order (Region wise):**

<b>Name of the Region</b>	<b>Name of the state</b>
1. Northern Region	Chandigarh
	Delhi
	Haryana
	Himachal Pradesh
	Jammu & Kashmir
	Punjab
	Rajasthan
	Uttar Pradesh
2. Western Region	Uttarakhand
	Chhattisgarh
	Goa
	Gujarat
	Madhya Pradesh
3. Southern Region	Maharashtra
	Daman & Diu & Dadar Nagar Haveli (UTs)
	Andhra Pradesh
	Karnataka
	Kerala
4. Eastern Region	Tamil Nadu
	Telangana
	Puducherry (UT)
	Bihar
5. North-Eastern Region	Jharkhand
	Odisha
	Sikkim
	West Bengal
	Arunachal Pradesh
	Assam
	Manipur
Meghalaya	
Mizoram	
Nagaland	
Tripura	

Final CoBRStanding Committee on Electrical Safety  
Conduct of Business Rules

## CHAPTER I

## GENERAL

**1. Short title and commencement:**

These rules shall come into force from the date of its formation i.e. **14<sup>th</sup> July, 2017** and shall remain in force unless otherwise modified.

**2. Definitions:**

2.1 In these Rules unless the context otherwise requires: -

- (a) 'Agenda' means the list of business proposed to be transacted at a meeting of the Committee.
- (b) 'Committee' means the Standing Committee on Electrical Safety (SCES).
- (c) 'Meeting' means a meeting of the Committee convened by Member Secretary after consultation with Chairperson, Standing Committee on Electrical Safety.
- (d) 'Member' means the member of the Standing Committee on Electrical Safety, nominated by respective State Governments/UTs, Chairperson of SCES, Member Secretary of SCES and Superintending Engineers/heads of five Regional Inspectorate Offices (RIOs) of Central Electricity Authority (CEA).
- (e) 'Rule' means Standing Committee on Electrical Safety (Conduct of Business) Rules, 2017.

**3. Composition of SCES:**

- 1. Member (Power System)/ Principle Chief Engineer-II, CEA – **Chairperson, Standing Committee on Electrical Safety.**
- 2. Nominated Officer(s) (maximum two) from each State/UT would be **permanent member(s) by Designation.**
- 3. Chief Engineer, CEI Division, CEA – **Member Secretary, Standing Committee on Electrical Safety.**
- 4. Superintending Engineers / Heads of the five Regional Inspectorate Offices of Central Electricity Authority would be **permanent member(s) by Designation.**

**4. Functions of SCES**

Standing Committee on Electrical Safety shall carry out following functions:

- (i) To resolve the issues arising in implementation of CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 (as amended) by the State Electrical Inspectorate Departments.



- (ii) Consideration for amendments required in CEA (Measures relating to safety and electric supply) Regulations, 2010 from time to time due to –
  - a) change in technologies
  - b) problem in its implementation by the user
  - c) to delete some obsolete provisions from the regulation
  - d) when an existing regulation create hurdle in the implementation of other regulation
  - e) Any future technologies and the impact of this on the electrical safety
- (iii) Discussion on the proposal for adoption of some provisions of internationally recognized standards like IEC, EN etc. in the Regulation in absence of BIS.
- (iv) Discussion on the proposal for adoption of best practice of electrical safety in India or elsewhere in the world.
- (v) Requirement of sensitization on electrical safety among all stakeholders.
- (vi) Review and analysis of electrical accidents States/UTs and its statistics.
- (vii) Developing proper methodology for institutionalizing an award on electrical safety to the best performing State and organization.
- (viii) Formation of sub-committees as per requirement.
- (ix) Change in the Conduct of business rules.
- (x) Any other issues with the permission of the Chairperson (with a minimum of three months' advance notice to SCES Secretariat)

The decisions regarding the amendment would be taken in the Standing Committee meetings and would be put up to the CEA Authority directly for consideration.

#### **5. Secretariat of Standing Committee on Electrical Safety.**

The office of the Chief Engineer (CEI division), CEA would be the Permanent Secretariat of the Standing Committee on Electrical Safety (SCES). The Office/ Secretariat of SCES shall perform the following duties namely:

- a) To keep custody of records of proceedings of the Committee meetings.
- b) To prepare agenda for the Committee meetings.
- c) To prepare minutes of Committee meetings.
- d) To take follow-up action on the decision taken in the Committee meetings and intimate the same to Members.
- e) To collect from constituent members or other offices or any other party as may be directed by Committee, such information as may be considered useful for the efficient discharge of functions of the Committee and place the information before the Committee.





**CHAPTER II**  
**PROCEDURE FOR CONDUCTING SCES MEETINGS**

**6. Chief Guest of SCES Meeting**

Special/Additional Chief Secretary/ Principle Secretary/ Secretary (Power/Energy) of the hosting state would be the Chief Guest for the Standing Committee meeting.

**7. Place and date of SCES Meeting**

The meeting of the Committee would be held twice in a year by clock-wise rotation in each region (considering 5 region zones namely **Northern Region, Western Region, Southern Region, Eastern Region and North-Eastern Region**). For conducting the meeting within the region an alphabetic sequence for the states/UT as given in **Annexure IV** would be followed. Every State/UT in the region would have to take the responsibility for holding the Standing Committee Meeting alternatively.

**8. Notice for the Committee Meeting and Agenda**

8.1 Notice for the Committee meeting shall be issued by Member Secretary, SCES at least 21 days in advance in consultation with Chairperson, SCES. In case any emergency meeting is to be conducted, to deliberate on an urgent issue, a minimum notice of one week (7 days) is to be given.

8.2 The Agenda points for the meeting shall be sent to the Member Secretary by the members at least three months (**90 days**) in advance of the meeting. The Member Secretary, SCES shall finalize the agenda and circulate the same to all its members at least 21 days in advance before the meeting.

8.3 Member Secretary, SCES may also put any additional agenda involving urgent matters/policy issues directly in consultation with Chairperson, SCES.

**9. Effect of Non-receipt of Notice of Meeting by a Member**

The non-receipt of notice by any member of SCES would not invalidate the proceeding of the meeting or any decision taken in the meeting.

**10. Cancellation / Re-scheduling of Meeting**

If a meeting is required to be cancelled or rescheduled the same shall be intimated to the members at the earliest by telephone / fax/ email.

**11. Periodicity of Meetings**

The Committee members shall meet at least once in six months. However, if required, the Committee may meet any time to discuss any urgent issue as and when required in consultation with Chairperson, SCES.

**12. Quorum of SCES Meeting**

12.1 The quorum of the meeting shall be 50% of its members.



12.2 The decision in SCES would be taken on majority/general consensus. In case of voting, a minimum 51% of the voting is required for getting any agenda approval. In case of a tie, the final voting right would remain with the Chairperson of SCES. Member nominated by the State Government and Member Secretary of the Standing Committee Secretariat and the Members from the five RIOs would only be having the voting right.

12.3 Members of SCES and SCES Secretariat shall participate in Committee Meetings. The non-nominated state members may participate in the meetings of SCES as an observer. They can give suggestion but without any voting right. Similarly, the Special Invitees would attend the meeting as and when invited for discussion on certain topics. They also would not have any voting right.

### **13. Presiding Authority**

13.1 The Chairperson, SCES shall preside over the meetings of SCES and conduct the meeting. The Member Secretary, SCES shall assist the Chairperson of SCES in conducting the meeting.

13.2 In the absence of Member Secretary, the officer designated by chairperson shall function as Member Secretary to assist chairperson, SCES.

### **14. Recording of the Minutes**

The draft minutes of the meeting would be sent through e-mail within 15 working days from the date of the meeting and in case of any comments on the MoM, the same should be intimated to the Secretariat of the SCES through email within seven (7) days from the receipt of the MoM through e-mail.

### **15. Confirmation of the Minutes**

Minutes of the SCES meeting shall be placed in the next meeting for confirmation. However, in case of urgency the minutes may be confirmed by circulation.

### **16. Funding**

The host state, where the meeting is scheduled, would bear the expenditure for hosting the meeting.



**CHAPTER III  
MISCELLANEOUS**

**17. Savings of inherent Power of the SCES**

17.1. Nothing in these Rules shall bar the SCES from adopting a procedure that is at variance with provisions of these Rules, if the SCES in view of the special circumstances of a matter or class of matters deem it necessary or expedient to deal with such a matter or class of matters.

17.2. Nothing in these Rules shall expressly or by implication, bar the SCES to deal with any matter or exercise any power for which no Rules have been framed and SCES may deal with such matters, and functions in a manner it thinks fit.



(Goutam Roy)

Member Secretary, SCES

Dated: 26.07.2017

**Signature by all the nominated Members from the States/UT.**

1. Chandigarh

2. Delhi

3. Haryana

4. Himachal Pradesh

5. Jammu & Kashmir

6. Punjab

7. Rajasthan

8. Uttar Pradesh

9. Uttarakhand

10. Chattisgarh

11. Gujarat
12. Madhya Pradesh
13. Maharashtra
14. Goa
15. Andhra Pradesh
16. Karnataka
17. Kerala
18. Tamil Nadu
19. Telangana
20. Tripura
21. Bihar
22. Jharkhand
23. Odisha
24. Sikkim
25. West Bengal
26. Arunachal Pradesh
27. Assam
28. Manipur
29. Meghalaya
30. Mizoram
31. Nagaland



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केंद्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
मुख्य विद्युत निरीक्षणालय प्रभाग  
Chief Electrical Inspectorate Division

Telefax: 011-26565183

संख्या- सी.ई.आई./

दिनांक: / / 2017

To

All Principle Secretary/ Secretary, State Power Depratments/ UTs.  
(As per list enclosed)

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

In accordance the Regulation 5A of CEA (Measures relating to Safety and Electric Supply) Regulations, 2017 (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 Guideline 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 Engineer (CESE)”** under sub regulation 5A of Central Electricity Authority (Measures relating to Safety and Electric Supply) Amendment Regulations, 2017.
  - (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;”;(2) 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.

### **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 of experience in operation and maintenance of electrical installations or an Electrical Engineering Diploma holder with at least 10 years of experience in operation and maintenance of electrical installations.
- (b) He/ She shall qualify the prscribed test/ interview conducted by the Appropriate 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.
- (d) Retired Chief Electrical Inspector/ Electrical Inspector who were already notified by Appropriate Government would be eligible for CESE.
- (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 inspect 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 to respective office of the Chief Electrical Inspector (CEI)/ Electrical Inspector (EI) within 7 days from the date of inspection/ 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 issue the notice to the owner or consumer under intimation to the office of Chief Electrical Inspector (CEI)/ Electrical Inspector within the period of 7 days from the date of inspection/testing.

## 6. Fees and levay chages of CESE.

Type of Inspection	Fees including test charges. (In Indian Rs/-)
(a) Inspection of electrical instalation of voltage upto 650 V under Regulation, 43	4,000.00
(b) Inspection of electrical instalation of voltage upto Notified Voltage under Regulation, 43.	5,000.00



(c) Periodic inspection under regulation, 30	3,000.00
(d) Issue of Duplicate certificate	500.00

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 negligence, 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 cease automatically on his/her attaining the age of 65 years.
- (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.

Yours Faithfully

(Goutam Roy)

Chief Engineer and Chief Electrical inspector to the Gol

## Annexure-I

### Basic testing equipment.

01. **Voltmetre:** use to measure the voltage of any equipment/electrical apparatus.
02. **Ammeter:** an instrument for measuring electric current in amperes.
03. **Multimeter:** A multimeter can measure voltage, current, and resistance.
04. **Megger:** 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 available as per indian standard (IS:2925).
08. **Safety Belt:** It should be available as per indian standard (IS: 2521)
09. **Safety Shoes:** It should be available as per indian standard
10. **Hands Gloves:** It should be available as per indian standard
11. **Others necessary testing kits:** as suggested by the office of the CEI/EI.

**Forms of Inspection Report**

**[See sub-regulation (3) of regulation (30)]**

*FORM I*

**(Installations of voltage up to and including 250V)**

Report /CEA online application No. \_\_\_\_\_ Date of Inspection \_\_\_\_\_

Date of Last inspection \_\_\_\_\_

1. Consumer No. \_\_\_\_\_
2. Voltage and system of supply:
  - (i) Volts \_\_\_\_\_
  - (ii) No. of Phases \_\_\_\_\_
  - (iii) AC/DC \_\_\_\_\_
3. Type of wiring \_\_\_\_\_
4. Name of the consumer or owner \_\_\_\_\_
5. Address of the consumer or owner \_\_\_\_\_
6. Location of the premises \_\_\_\_\_
7. Particulars of the installations: \_\_\_\_\_

		Number	Connected Load in KW
(a)	(i) Light Points	_____	_____
	(ii) Fan Points	_____	_____
	(iii) Plug Points	_____	_____

State type of wiring whether casing capping, lead covered of teak wood batten, concealed conduit, Tough Rubber Sheathed and any other type.

- (b) Other equipments (complete details to be furnished):
- (i) \_\_\_\_\_
  - (ii) \_\_\_\_\_

Total connected load in KW \_\_\_\_\_

Maximum current demand in Amps \_\_\_\_\_

(on the basis of total connected load)

- (c) Generators details i.e. Make, S. No, KVA rating and Voltage:
- (i) \_\_\_\_\_
  - (ii) \_\_\_\_\_

General conditions of the installation:

Sl.N o.	Regulation Nos.	Requirements	Report
8.	Regulation-12	(i) Is/Are there any visible sign(s) of overloading in respect of any apparatus wiring? (ii) Condition of flexible cords, sockets, switches, plug-pins, cut-outs and lamp holders and such other fittings. (iii) General condition of wiring. (iv) Whether any unauthorised temporary installation exist? (v) State if sockets are controlled by individual switches. (vi) Any other defect or condition which may be a source of danger. If yes give details.	Yes/No  Satisfactory/Not Satisfactory  Satisfactory/Not Satisfactory Yes/No Yes/No Yes/No
9.	Regulation-13	Give report on condition of service lines, cables, wires, apparatus and such other fittings placed by the supplier or owner of the premises. If not satisfactory give details.	Satisfactory/Not Satisfactory
10.	Regulation-14	Whether suitable cut-outs provided by the supplier at the consumer's premises are within enclosed fire proof receptacle?	Yes/No
11.	Regulation-15	(i) State if switches are provided on live conductors. (ii) State if indication of a permanent nature is provided as per Regulation so as to distinguish neutral conductor from the live conductor. (iii) Whether a direct line is provided on the neutral in the case of single phase double pole iron clad switches instead of fuse ?	Yes/No  Yes/No  Yes/No
12.	Regulation-16	(i) State if earthed terminal is provided by the supplier. (ii) Have three pin plugs been provided for plug points ? (iii) General visible condition of the earthing arrangement.	Yes/No  Yes/No  Satisfactory/Not Satisfactory
13.	Regulation-17	Are the live parts in accessible position ?	Yes/No
14.	Regulation-34	Leakage on premises: State insulation resistance between conductors and earth in Mega Ohms.	----- M Ohms
15.	Regulation-35	(i) State if linked switches of requisite capacity	Yes/No

		<p>are provided near the point of commencement of supply.</p> <p>(ii) State if the wiring is divided in suitable number of circuits and each such circuit is protected by suitable cut-out.</p> <p>(iii) State if supply to each motor or apparatus is controlled by suitable linked switch.</p>	<p>Yes/No</p> <p>Yes/No</p>
16.	Regulation-41	<p>(i) Have the frames of every generator, stationary motor and so far as practicable portable motor and the metallic parts (not intended as conductors) of all other apparatus used for regulating* or controlling electricity been earthed by two separate and distinct connections with earth ?</p> <p>(ii) Is the earth wire free from mechanical damage ?</p> <p>(iii) In the case of conduit, or lead covered wiring, has the conduit or lead-cover been efficiently earthed ?</p> <p>(iv) If the consumer has his own earth-electrode, state if it is properly executed and has been tested. If yes give value of earth resistance.</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>----- Ohms.</p>
17.	Overhead Lines	<p>(i) State if the consumer has any overhead lines.</p> <p>(ii) Does the overhead line near the premises of consumer meets the requirement of regulation 58, 60 and 61? If not, give details.</p> <p>(iii) Is guarding provided for overhead lines at road crossings?</p> <p>(iv) Any other remarks.</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>

Date :

Signature of the CESE/ Inspecting Officer.

Name \_\_\_\_\_

Designation \_\_\_\_\_

File No. \_\_\_\_\_

Copy forwarded to o/o of the Chief Electrical Inspector for .....

\* Not applicable to isolated wall tubes or to brackets, electroliers, switches, ceiling fans and such other fittings (other than portable hand lamps and transportable apparatus) unless provided with earth terminal.

*FORM II*

**(Installations of voltage level more than 250V up to and including 650V)**

Report/CEA online application No. \_\_\_\_\_ Date of Inspection \_\_\_\_\_

Date of Self Certification/ date of last Inspection \_\_\_\_\_

1. Consumer No. \_\_\_\_\_
2. Voltage and system of supply:
  - (i) Volts \_\_\_\_\_ (ii) No. of Phases \_\_\_\_\_ (iii) AC/DC \_\_\_\_\_
3. Name of the consumer or owner \_\_\_\_\_
4. Address of the consumer or owner.....

5. Location of the premises \_\_\_\_\_

6. Particulars of the installations

(a) Motors:

Make	No.	H.P.	Amps.	Voltage
------	-----	------	-------	---------

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

(b) Other equipment (complete details to be furnished):

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

Total connected load h.p./KVA

(c) Generators details i.e. Make, S. No, KVA rating and Voltage:

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

General condition of the installation:

Sl.N o.	Regulation Nos.	Requirements	Report
7.	Regulation-3	Is the register of designated persons properly made and kept up to date duly attested ?	Yes/No
8.	Regulation-12	(i) Is/Are there any visible sign(s) of overloading in respect of any apparatus wiring?	Yes/No
		(ii) Whether any unauthorised temporary installation exist?.	Yes/No
		(iii) Are the electric supply lines and apparatus so installed, protected, worked and maintained as to prevent danger ?	Yes/No
		(iv) Any other general remarks.	
9.	Regulation-13	Give report on condition of service lines, cables, wires, apparatus and such other fittings placed by the supplier or owner of the premises. If not satisfactory give details.	Satisfactory/Not Satisfactory
10.	Regulation-14	Whether suitable cut-outs provided by the	Yes/No

		supplier at the consumer's premises are within enclosed fire proof receptacle?	
11.	Regulation-15	(i) Whether switches are provided on live conductors? (ii) Whether indication of a permanent nature is provided as per Regulation so as to distinguish neutral conductor from the live conductor? (iii) Whether a direct line is provided on the neutral in the case of single phase double pole iron clad switches instead of fuse ?	Yes/No Yes/No Yes/No
12.	Regulation-16	(i) Whether earthed terminal is provided by the supplier? (ii) General visible condition of the earthing arrangement.	Yes/No Satisfactory/Not Satisfactory
13.	Regulation-17	(i) Are bare conductors in building inaccessible? (ii) Whether readily accessible switches have been provided for rendering them dead ?	Yes/No Yes/No
14.	Regulation-18	Whether "Danger Notice" in Hindi and the local language of the district and of a design as per relevant Indian Standard is affixed permanently in conspicuous position?.	Yes/No
15.	Regulation-19	(i) Whether insulating floor or mats conforming to IS-15652:2006 have been provided? (ii) Whether identification of panel has been provided on the front and the rear of the panel?	Yes/No Yes/No
16.	Regulation-21	Whether flexible cables used for portable or transportable equipment covered under the Regulation, are heavily insulated and adequately protected from mechanical injury?.	Yes/No
17.	Regulation-22	State the condition of metallic coverings provided for various conductors.	Satisfactory/Not Satisfactory
18.	Regulation-24	Whether the circuits or apparatus intended for operating at different voltage(s) are distinguishable by means of indication(s) of permanent nature?.	Yes/No
19.	Regulation-26	Whether all circuits and apparatus are so arranged that there is no danger of any part(s) becoming accidentally charged to any voltage beyond the limits of voltage for which it/they is/are intended ?	Yes/No
20.	Regulation-27	(i) In the case of generating stations, whether fire-buckets filled with clean dry sand have been conspicuously marked and kept in convenient situations in addition to fire-extinguishers suitable for dealing with electric fires ?	Yes/No

		(ii) Whether First Aid Boxes or cupboards conspicuously marked and properly equipped are provided and maintained? (iii) Is adequate staff trained in First Aid Treatment and fire fighting?	Yes/No  Yes/No
21.	Regulation-28	(i) Whether 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 have been affixed in a "conspicuous place" ? (ii) Are the designated persons able to apply instructions for resuscitation of persons suffering from electric shock ?	Yes/No  Yes/No
22.	Regulation-34	Leakage on premises: State insulation resistance between conductors and earth in Mega Ohms.	----- M Ohms
23.	Regulation-35	(i) Whether a suitable linked switch, or circuit breaker is placed near the point of commencement of supply so as to be readily accessible and capable of being easily operated to completely isolate the supply ? (ii) Whether every distinct circuit is protected against excess electricity by means of a suitable circuit breaker or cut-out ? (iii) Whether suitable linked switch or circuit breaker is provided near each motor or apparatus for controlling supply to the motor or apparatus? (iv) Whether adequate precautions are taken to ensure that no live parts are so exposed as to cause danger?.	Yes/No  Yes/No  Yes/No  Yes/No
24.	Regulation-37	(i) Whether clear space of 100 cm is provided in front of the main switchboard?.. (ii) Whether the space behind the switchboard exceeds 75 cm in width or is less than 20 cm?.. (iii) In case the clear space behind the switchboard exceeds 75 cm. state whether a passage way from either end of the switchboard to a height of 1.80 metres is provided.	Yes/No  Yes/No  Yes/No
25.	Regulation-41	(i) Has the neutral point at the transformer and generator been earthed by two separate and distinct connections with earth? (ii) Have the frame of every generator, stationary motor and so far as practicable portable motor and the metallic parts (not intended as conductors) of all transformers and any other apparatus	Yes/No  Yes/No



		<p>used for regulating or controlling electricity and all apparatus consuming electricity at voltage exceeding 250V but not exceeding 650V been earthed by two separate and distinct connections with earth ?</p> <p>(iii) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connection?</p> <p>(iv) Whether the consumer's earth-electrode is properly executed and has been tested. If yes, give value of earth resistance?.</p> <p>(v) Is the earth wire free from any mechanical damage ?</p>	<p>Yes/No</p> <p>Yes/No</p> <p>----- Ohms. Yes/No</p>
26.	Regulation-45	Have the protections and interlocks for the generating units been provided. If not, give details?.	Yes/No
27..	Overhead Lines	<p>(i) State if the consumer has any overhead lines.</p> <p>(ii) Does the overhead line near the premises of consumer meets the requirement of regulations 58, 60 and 61? If not, give details.</p> <p>(iii) Is guarding provided for overhead lines at road crossings?</p> <p>(iv) Any other remarks.</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>

Date \_\_\_\_\_

Signature of the Inspecting Officer/ Self-certifying Owner/ CESE

Name .....

Designation .....

File No. ....

Copy forwarded to O/o the Electrical Inspector/Chief Electrical Inspector .....

FORM III

**( Installations of voltage exceeding 650V )**

Report /CEA online application No. \_\_\_\_\_ Date of Inspection \_\_\_\_\_

Date of Last inspection \_\_\_\_\_

Sl.N o.	Regulation Nos	Requirements	Report
1.	Regulation-3	Is the register of the designated persons properly made and kept up to date duly attested?	Yes/No
2.	Regulation-12	(i) Is/Are there any visible sign(s) of overloading in respect of any apparatus? (ii) Whether any unauthorised temporary installation exist? (iii) Whether the motors and controlling equipment are being over hauled periodically and record kept of the same in a register? (iv) Whether the transformer oil samples are being tested periodically and results recorded in a register? (v) Whether suitable lightning arrestors have been provided near the transformers for protection against lightning? (vi) Whether earth resistance is being measured periodically and results recorded in a register? (vii) Any other defect or condition which may be a source of danger. If Yes please explain? (viii) Whether operation and maintenance data has been clarified, categorized and computerized for prompt and easy retrieval? (ix) Whether predictive maintenance is being performed for installation of voltage exceeding 650V? (x) Whether residual life assessment and life extension programmes are being undertaken for installations or equipment of voltage exceeding 650V (applicable for installations or equipment more than 15 years old)? (xi) Whether all required type and routine tests at factory done for equipments. Deficiencies and Discrepancies in above test report and results, if any, shall be reported?	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No

		(xii) Are there deficiencies in construction with reference to Indian Standard requirements. Please specify.	Yes/No
3.	Regulation-13	Give report on condition of service lines, cables, wires, apparatus and such other fittings placed by the supplier or owner of the premises. If not satisfactory give details.	Satisfactory/Not Satisfactory
4.	Regulation-14	Whether suitable cut-outs provided by the supplier at the consumer's premises are within enclosed fire proof receptacle?	Yes/No
5.	Regulation-15	(i) Whether switches are provided on live conductors? (ii) Whether indication of a permanent nature is provided as per Regulation so as to distinguish neutral conductor from the live conductor? (iii) Whether a direct line is provided on the neutral in the case of single phase double pole iron clad switches instead of fuse ?	Yes/No Yes/No Yes/No
6.	Regulation-16	(i) Whether earthed terminal is provided by the supplier? (ii) General visible condition of the earthing arrangement.	Yes/No Satisfactory/Not Satisfactory
7.	Regulation-17	(i) Are bare conductors in building inaccessible? (ii) Whether readily accessible switches have been provided for rendering them dead?	Yes/No Yes/No
8.	Regulation-18	Whether "Danger Notice" in Hindi and the local language of the district and of a design as per relevant Indian Standard is affixed permanently in conspicuous position?.	Yes/No
9.	Regulation-19	(i) Whether the practice of working on live lines and apparatus is adopted ? If so, have the safety measure been adopted as per Schedule-III ? (ii) Whether insulating floor or mats conforming to IS-15652:2006 have been provided? 14. (iii) Whether identification of panel has been provided on the front and the rear of the panel?	Yes/No Yes/No Yes/No
10.	Regulation-21	Whether flexible cables used for portable or transportable equipment covered under the Regulation, are heavily insulated and	Yes/No

		adequately protected from mechanical injury?.	
11.	Regulation-22	State the condition of metallic coverings provided for various conductors.	Satisfactory/Not Satisfactory
12.	Regulation-24	Whether the circuits or apparatus intended for operating at different voltage(s) are distinguishable by means of indication(s) of permanent nature?.	Yes/No
13.	Regulation-26	Whether all circuits and apparatus are so arranged that there is no danger of any part(s) becoming accidentally charged to any voltage beyond the limits of voltage for which it/they is/are intended ?	Yes/No
14.	Regulation-27	(i) In the case of generating stations and enclosed sub stations, whether fire-buckets filled with clean dry sand have been conspicuously marked and kept in convenient situations in addition to fire-extinguishers suitable for dealing with electric fires ? (ii) Whether First Aid Boxes or cupboards conspicuously marked and properly equipped are provided and maintained?. (iii) Is adequate staff trained in First Aid Treatment and fire fighting?	Yes/No Yes/No Yes/No
15.	Regulation-28	(i) Whether 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 have been affixed in a "conspicuous place" ?. (ii) Are the designated persons able to apply instructions for resuscitation of persons suffering from electric shock ?	Yes/No Yes/No
16.	Regulation-34	Leakage on premises: State insulation resistance between conductors and earth in Mega Ohms.	----- M Ohms
17.	Regulation-35	(i) Whether a suitable linked switch, or circuit breaker, or emergency tripping device is placed near the point of commencement of supply so as to be readily accessible and capable of being easily operated to completely isolate the supply? (ii) Whether suitable linked switch or a circuit breaker to carry and break the full load	Yes/No Yes/No

		<p>current on the secondary side of a transformer?</p> <p>(iii) Whether every distinct circuit is protected against excess electricity by means of a suitable circuit breaker or cut-out?</p> <p>(iv) Whether linked switch or circuit breaker or emergency tripping device is provided near the motor or other apparatus at voltage exceeding 650V but not exceeding 33kV for controlling supply to the motor or apparatus?</p> <p>(v) Whether adequate precautions are taken to ensure that no live parts are so exposed as to cause danger?</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>
18.	Regulation-37	<p>(i) Whether clear space of 100 cm is provided in front of the main switchboard?.</p> <p>(ii) Whether the space behind the switchboard exceeds 75 cm in width or is less than 20 cm?.</p> <p>(iii) In case the clear space behind the switchboard exceeds 75 cm. State whether a passage way from either end of the switchboard to a height of 1.80 meters is provided.</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>
19.	Regulation-44	<p>(i) Whether all conductors and apparatus including live parts thereof are inaccessible?</p> <p>(ii) Whether all windings of motors or other apparatus are suitably protected?</p> <p>(iii) State in case of transformers or reactors or switches or static condensers involving the use of more than 2,000 litres of oil in one chamber, if suitable oil soak pits are provided?</p> <p>(iv) Where 9,000 litres or more of oil is used in any one oil tank, has provision, been made for draining away or removal of oil which may leak or escape from such tank(s)?</p> <p>(v) Whether trenches inside sub-station containing cables are filled with non-inflammable material or completely covered with non- inflammable slabs?</p> <p>(vi) Are conductors and apparatus so arranged that they may be made dead in sections</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>

		for carrying out work thereon?	
20.	Regulation-45	Whether protections and interlocks have been provided? If not, give details.	Yes/No
21.	Regulation-48	<p>(i) Have the frames of every generator, stationary motor, and so far as practicable portable motor and metallic parts not intended as conductors of all transformers and any other apparatus used for regulating or controlling electricity and all electricity consuming apparatus at voltage exceeding 650V but not exceeding 33kV been earthed by two separate and distinct connections with earth ?</p> <p>(ii) Is the earth wire free from any mechanical damage ?</p> <p>(iii) Has the neutral point at the transformer and generator been earthed by two separate and distinct connections with earth?</p> <p>(iv) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connections throughout their whole length?</p> <p>(v) Whether earthing has been properly executed and has been tested. If yes, give value of earth resistance.</p>	<p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No -----Ohms</p>
22.	Regulation-49	Is the outdoor (except pole type) sub-station efficiently protected by fencing not less than 1.8 metres in height?	Yes/No
23	Regulation-50	<p>(i) Where platform type construction is used for pole type sub-station, has sufficient space for a man to stand on the platform been provided?</p> <p>(ii) Has hand-rail been provided and connected with earth (if metallic and if sub-station has not been erected on wooden supports and wooden platform)?</p>	<p>Yes/No</p> <p>Yes/No</p>
24.	Regulation-51	Has suitable provision been made for immediate and automatic or manual discharge of every static condenser on disconnection of supply ?	Yes/No
25	Overhead		

	Lines	<p>(i) What is the minimum size of the conductors of overhead lines used ? State the type of conductors.</p> <p>(ii) Whether clearances above ground of the lowest conductor of overhead lines are as per regulation 58?</p> <p>(iii) On the basis of maximum sag, Whether vertical clearances where the line of voltage exceeding 650V passes above or adjacent to any building or part of a building are as per regulation 61?</p> <p>(iv) On the basis of maximum deflection due to wind pressure, whether horizontal clearances between the nearest conductor and any part of such building are as per regulation 61?</p> <p>(v) Where conductors forming parts of system at different voltages are erected on the same supports, whether adequate provision has been made as per regulation 62 to guard against danger to linemen and others from the lower voltage system being charged above its normal working voltage by leakage from or contact with the higher voltage system ?</p> <p>(vi) Where overhead lines cross or are in proximity to each other whether they have been suitably protected to guard against possibility of their coming in contact with each other as per regulation 69?</p> <p>(vii) Has every guard wire been properly earthed as per regulation 70 at each point at which its electrical continuity is broken?</p> <p>(viii)(a) Whether metal supports of overhead lines and metallic fittings attached thereto are permanently earthed as per regulation 72?</p> <p>(b) Has each stay-wire (except in case where an insulator has been placed in it at a height not less than 3 meters from the ground) been earthed as per regulation 72?</p> <p>(ix)(a) Whether overhead line is suitably</p>	<p>Size of Conductor ---</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>
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		protected with a device for rendering the line electrically harmless in case it breaks as per regulation 73?	Yes/No
		(b) Whether anti-climbing devices have been provided at each support as per regulation 73?	Yes/No
	(x)	(a) Has the owner of overhead lines adopted efficient means for diverting to earth any electrical surges due to lightning in every overhead line which is so exposed as to be liable to injury from lightning as per regulation 74?	Yes/No
		(b) Whether earth lead from the lightning arrestors is connected to a separate earth electrode as per regulation 74?	Yes/No
	(xi)	Whether unused overhead lines are maintained in a safe mechanical condition as per regulation 75?	Yes/No
	(xii)	Whether statutory clearances from Authorities i.e. Forest Department/Railways/ PTCC/Defence (AHQ)/Civil Aviation have been taken as per Indian standard. If yes, enclose copies of the same.	
	(xii)	Any other remarks.	

Date :

Signature of the CESE/ Inspecting Officer

Name \_\_\_\_\_

Designation \_\_\_\_\_

File No. \_\_\_\_\_

Copy forwarded to O/o the Chief Electrical Inspector/ Electrical Inspector .....



## Application Form

### Application Form for Chartered Electrical Safety Engineer:

1. Name of Engineer: \_\_\_\_\_ 2. \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
3. Permanent Address: \_\_\_\_\_ 4. \_\_\_\_\_  
Contact No: \_\_\_\_\_ 5. e-Mail ID: \_\_\_\_\_  
6. Educational Qualification: \_\_\_\_\_

7. Specialization if any: -

8. Experience:

Organisation \_\_\_\_\_ Name: \_\_\_\_\_  
Post Held: \_\_\_\_\_  
Date \_\_\_\_\_ of \_\_\_\_\_ Joining: \_\_\_\_\_  
Date of Leaving: \_\_\_\_\_  
Total \_\_\_\_\_ Experience: \_\_\_\_\_  
Nature of Work Held: \_\_\_\_\_  
Remarks: \_\_\_\_\_

Attested photocopies of documents attached:

1. Degree passing Certificate
2. Experience Certificate from the Employer/Competent Authority.
3. Photo-signature ID viz. PAN card/Driving license/Adhaar card/Voter ID etc.

( \_\_\_\_\_ )  
Signature

**Form**

**Chartered Electrical Safety Engineer's Competency Certificate**

**Certificate No.**

**Date:**

**This is to certify that Mr./Mrs./Ms. \_\_\_\_\_ is hereby awarded the Certificate of Competency as Chartered Electrical Safety Engineer for the purpose of Self Certification of electrical installations of voltage up to Notified Voltage under Regulation 30 and Regulation 43 of CEA (Measures Related to Safety & Electricity Supply) Amendment Regulations, 2017.**

**Chief Electrical Inspector/ Electrical Inspector**

Proposed amendments to be discussed in 2<sup>nd</sup> meeting of SCES

Proposer	Regulation	Comments / Suggestions	Justifications	CEA View
1.CEI Kerala	Regulation 2	<p><b>Definitions.-</b> In the Central Electricity Authority (Measures relating to Safety and Electric Supply) Amendment Regulations, 2015 following clauses are included but in the new draft it is seen omitted.</p> <ol style="list-style-type: none"> <li>1. Chartered Electrical Safety Engineer.</li> <li>2. Electrical Inspector of Mines.</li> <li>3. Flame proof enclosure.</li> <li>4. Inspecting Officer.</li> <li>5. Intrinsically safe apparatus.</li> <li>6. Notified voltage.</li> <li>7. Self certification.</li> </ol> <p>Among these, the terminologies mentioned in items 1,6 and 7 are newly introduced in the earlier amendments and may be retained in the upcoming amendments.</p>	Regulations 30 and 43 are redefined based on these three terminologies. Hence the suggestion.	<b>Not Agreed</b> Already provided in 2015 amendment.
	Regulation 6(1)	<p><b>Safety measures for operation and maintenance of electric plants. -</b> Engineers and supervisors engaged or appointed to operate or undertake maintenance of any part or whole of an electric power plant together with the associated sub-station shall hold degree or diploma in <u>Electrical</u> Engineering from a recognized institute or university.</p>	The engineering branch may be related to the work concerned, i.e., preferably Electrical Engineering. Also, it may be noted that this will be against the provisions in Regulation 5 regarding the qualification. Hence the amendment.	<b>Not Agreed</b> As plant requires engineers for different purposes according to need so in the latest draft, <b>appropriate branch</b> is mentioned. Further Electrical Safety officer is different from Engineer/Supervisor mentioned here.
	Regulation 7(1)	<p><b>Safety measures for operation and maintenance of transmission, distribution systems. -</b> Engineers or supervisors engaged or appointed to operate or undertake maintenance of</p>	Mechanical and Electronics branches may be omitted as electrical safety cannot be ensured by engineers from other branches. Also, it may be noted that this will be against the provisions in Regulation	<b>Not Agreed</b> As plant requires engineers for different purposes according to need so in the latest draft, <b>appropriate branch</b> is mentioned. Further

	transmission and distribution systems shall hold degree or diploma in electrical, mechanical, electronics and instrumentation Engineering from a recognized institute or university.	5 regarding the qualification. Hence the amendment.	Electrical Safety officer is different from Engineer/Supervisor mentioned here.
<b>Regulation 13(4)</b>	<b>Service lines and apparatus on consumer's premises.</b> - The consumer shall also ensure that the installation under his control is maintained in a safe condition. (Is seen omitted)	The consumer may also be responsible for maintaining electrical installation under his control in safe condition. Accidents may occur in consumer premises due to the negligence in maintaining electrical installations in safe condition. Hence the suggestion.	<b>Agreed</b> This regulation has been kept unchanged.

<b>Regulation 19 (3-a)</b>	<b>Handling of electric supply lines and apparatus.</b> - 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), <b>Regulation 29</b> and takes the safety precautions given in Part-II, Part-III and Part-IV of Schedule-III.	Regulation 29 may also include since this modification required when workers are engaged for works. Hence the amendment.	<b>Agreed</b> in place of "Regulation 29", "or permitted under Regulation 29".
<b>Regulation 26(2)</b>	<b>Accidental charging.</b> - 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 <b>and in such case unearthed direct current system shall be used.</b>	When direct current also connected to earth terminal there is a chance for both sources getting shorted. Hence the amendment.	<b>Agreed</b>
<b>Regulation 29</b>	Penal provision for controlling unauthorised electrical work may also be included.		
<b>Regulation 30(2)</b>	<b>Periodical inspection and testing of installations.</b> - The periodical inspection and testing of installation of voltage equal to or below the notified voltage belonging to the	As the consumer or owner of an installation is not a qualified person it cannot inspect or test his electrical installation. If he is permitted to do so it	<b>Not agreed</b> Making Chartered Electrical Safety Engineer mandatory would be a burden over owner. Owner may take

	owner or supplier or consumer, as the case may be, <b>shall be get carried out by Chartered Electrical Safety Engineer and shall be self-certified by the owner or supplier or consumer, as the case may be,</b> for ensuring observance of safety measures specified under these regulations and the owner or supplier or consumer, as the case may be, shall submit the report of self-certification in the Form-I or Form-II or Form-III, as the case may be, of Schedule-IV to the Electrical Inspector.	will be against the provisions under regulation 29. Hence the amendment.	assistance of CESE, if not competent enough.
<b>Regulation 37(iii) (a)</b>	a clear space of not less than 1m in width shall be provided in front of switch board <b>after racked out the breaker, if any;</b>	1m clearance is not sufficient for free movement of maintenance personnel after racked out the breaker. Hence the amendment.	<b>Not Agreed</b> 1 meter is mandatory but it does not prohibit for having more than 1 meter space. Owner may have more than this space if it needs.
<b>Regulation 43(1)</b>	<b>Approval by Electrical Inspector and self-certification.-</b> Every electrical installation of notified voltage and below shall be inspected and tested <b>by the Chartered Electrical Safety Engineer and</b> shall be self-certified by the owner or supplier or consumer, as the case may be, of the installation before commencement of supply or recommencement after shut down for six months and above for ensuring observance of safety measures specified under these regulations and such owner or supplier or consumer shall submit the report of self-certification in the Form-III of Schedule-IV to the Electrical Inspector.	As the consumer or owner of an installation may not be qualified person, he cannot inspect or test his electrical installation. If he is permitted to do so it will be against the provisions under regulation 29. Hence the amendment.	<b>Not agreed</b> Making Chartered Electrical Safety Engineer mandatory would be a burden over owner. Owner may take assistance of CESE, if not competent enough.
<b>Regulation 43(4)(i)</b>	The Electrical Inspector in case of variations which require rectifications, direct the owner or supplier or consumer to rectify the same within a period of 30 days from the date of recording of the variations. <b><u>In the event of the failure of the owner or supplier or consumer of any</u></b>	This may be included in this regulation to maintain the installation safety in accordance with the regulation 13(4). Hence regulation 13(4) is also essential. Hence the amendment.	<b>May be considered.</b>

		<p><u>installation to rectify the defect in his installation pointed out by the Electrical Inspector in his report, such installation shall be liable to be disconnected under the directions of the Electrical Inspector after serving the owner of such installations with a notice for a period not less than 15 days.</u></p>		
Regulation 45(2)(iv)	Inter-locks and protection for use of electricity at voltage exceeding 650 Volts.- transformers of capacity 5 MVA and above shall be protected against faults by differential protection;	Where there is no provision for REF protection, differential protection may be insisted. Hence the amendment.	Not Agreed.	
Regulation 45(2)(v)	all <b>transformers and</b> generators with rating of 100kVA and above shall be protected against earth fault or leakage.	Transformers also may be protected against earth fault or leakage. Hence the amendment.	May be considered.	
Regulation 45(2)(vi)	all <b>transformers and</b> generators of rating 1000kVA and above shall be protected against faults within the winding using restricted earth fault protection or differential protection or by both;	Transformers having capacity of 1000kVA and above may be protected against faults within the winding. Hence the amendment.	Not Agreed.	
Regulation 60	<b>Clearances from buildings of lines and service lines not exceeding 650 Volts.-</b> (1) An overhead line shall not cross over an existing building <b>and no building shall be constructed under an existing overhead line, as far as possible.</b>	Considering the population density and paucity of land for living in the states like Kerala, construction of buildings under overhead lines may be permitted or the power to give permission may be vested to the appropriate Government.	Agreed	
Regulation 61	<b>Clearances from buildings of lines of voltage exceeding 650 Volts.-</b> (1) An overhead line shall not cross over an existing building <b>and no building shall be constructed under an existing overhead line, as far as possible.</b>	Considering the population density and paucity of land for living in the states like Kerala, construction of buildings under overhead lines may be permitted or the power to give permission may be vested to the appropriate Government.	Not Agreed "As far as possible" opportunity in the hands of household may create neglect of safety clearance.	
Regulation 65(3)	<b>General Clearances.-</b> No cutting of soil within ten meters from the tower structure of 132kV and above voltage level shall be permitted without the written permission of the owner of tower structure.	Minimum distance to be maintained to any construction from the poles and from the towers / tower foot or any supporting posts or electric overhead lines may be included.	Not Agreed	

			The clearances may be stipulated based on the voltage levels such as LT, MV, HT and EHT categories. Hence the suggestion.	
	<b>Chapter XIII</b>			
	<b>Additional safety requirements for solar park installations</b>			
	<b>Following points may be added with general safety requirements.</b>			
	<b>General safety requirements:-</b>	All transformers used for grid connected renewable sources may be protected in all respects.		<b>May be considered.</b>
		<ol style="list-style-type: none"> <li>1. Earth resistance shall not be more than 5 ohms. It may be ensured that all the earth connections are bonded together to make them at the same potential.</li> <li>2. The earthing conductor may be rated for the maximum short circuit current and may be 1.56 times the short circuit current. The area of cross section may not be less than 1.6 Sq.mm. in any case.</li> <li>3. Earthing may be done in accordance with IS 3043/1987, provided that earthing conductors may have a minimum size of 6 Sq.mm. Copper, 10 Sq.mm. Aluminium or 70 Sq.mm. hot dip galvanized steel.</li> </ol>		<b>May be considered.</b>
		From the point of fire safety in multi storied buildings where solar PV modules are installed, even if the provisions of regulation 36 are complied with, the DC cable and solar system may be in live condition. Precautionary measures may be insisted in such cases. Hence the following suggestions.		
		<ol style="list-style-type: none"> <li>1. Combine or grid tied inverter unit of capacity 10kW and above shall be installed in the periphery of the building.</li> <li>2. The DC cable from solar PV panel or grid tied inverter unit shall be laid through the outer wall of the building and DC cables should be installed to provide as short runs as possible.</li> <li>3. Solar system shall be tied at a point immediately after the meeting point through a divider panel.</li> <li>4. Where the building on which solar PV system is installed becomes the tallest structure in the vicinity, lightning protection as per IS/IEC 62305 shall be provided.</li> </ol>		<b>Not Agreed</b>
				<b>Not Agreed</b>
				<b>Not Agreed</b>
				<b>May be considered.</b>
		<p align="center"><b><u>Authority of Electrical Inspector in implementing the provisions under Section 146 of the Electricity Act, 2003 in connection with the imposition of penalty in case of violations, if any, may be clarified with clear cut sub regulations/annexure to the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulation, 2010.</u></b></p>		

Proposer	Regulation	Comments / Suggestions	Justifications	CEA View
2. Mahesh C. Gupta Chief Engineer Uttarakhand Power Corporation, Dehradun	Regarding Chartered Electrical Safety Engineer	<p>1. To prevent the electrical accident in commercial and large multi storied residential buildings of three or more floor where, the certificate of safety from a Chartered Electrical Engineer should be mandatory.</p> <p>2. The chartered Electrical Engineer should be made responsible to ensure that proper safety measures have been incorporated in buildings. If the certificate is found fake, provision for severe penal action against the Chartered Electrical Engineer should be made in rules.</p>		<p><b>Not Agreed</b> Regulation 36 envisages that every building of height more than 15 metre has to be inspected by Electrical Inspector. Buildings having connection of more than 250 V, have to be self-inspected by owner or by assistance of Chartered Engineer.</p> <p><b>Agreed</b> The issue has been addressed in draft guidelines of CESE.</p>

Proposer	Regulation	Comments / Suggestions	Justifications	CEA View
3. Chief Safety Commissioner Kerala State Electricity Board Limited	Regarding Competency Certificate	At present KSEB Ltd., as a licensee, as per section 7, 12, 13, 14, 40 and 42 of IE Act 2003 is following clause 4 & 7 read with 2 (b & c), of Central Electricity Authority (Safety requirements for construction, operation and maintenance of electrical plants and electric lines) Regulations, 2011 and regulation 6 & 7 of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 for the construction, operation & maintenance of electrical plants and electric lines in Generation, Transmission & Distribution systems. <u>Competency certificate or work permit is not specified in the above regulations.</u>		Competency certificate is already envisaged in regulation 3 (iii). It is applicable to licensee also.



		<p>Hence the engineers, supervisors and technicians engaged as above are not insisted to obtain competency certificate or work permit from State Government and the contractors engaged as per Central Electricity Authority (Safety requirements for construction, operation and maintenance of electrical plants and electric lines) Regulations, 2011 are not insisted to obtain license from the State Government as envisaged in clause 3 of CEA Regulation 2010. <u>Regulation 3 read with Regulation 2.d of CEA Regulation 2010 and 2.40 of Act 2003 may be pertains to electrical installations of a supplier, owner etc. other than a licensee.</u> Hence clarification is required whether clause 3 of CEA Regulation 2010 is applicable to a licensee like KSEB Ltd.</p>	
	<p><b>Regulation 29</b></p>	<p>At present, all the works are executed under the direct supervision of supervisors or engineers engaged as per regulation 6 and 7 of CEA Safety Regulation 2010 for construction, operation &amp; maintenance of electrical plants and electric lines in Generation, Transmission &amp; Distribution systems complying the order of KSERC vide Order dated 29.12.2016 in O.P.No.07/2016. Category of works to be carried out through a licensed electrical contractor are specified in clause 15, 26, 64(2), 37A of Supply Code 2014 framed by Kerala State Electricity Regulatory Commission. The above clauses are related to installations and premises defined in 2.50&amp;2.6 of Supply code 2014 (Installation and premises are also defined in 2. zbof Regulation 2010 and section 2.51 of Act 2003). Regulation 29 deals with the work at electrical installation (2. zb of Regulation 2010 and 2.50 of Supply code 2014) upon a premise (2.51 of Act 2003 and 2.6 of Supply code 2014) for the purpose of supply to that premise. <u>Whether ' installation and premises' mentioned in Regulation 29 pertains to that of a licensee as the duties of licensee described in</u></p>	<p>Regulation 29 is applicable to licensee also.</p>

		<p><u>section 7, 40, 42 of Act 2003 reveals about 'Electricity system and Power system (2.25&amp;50 of Act 2003).</u> In this context, whether Regulation 29 read with section 2.51 of IE Act 2003 may be applicable to KSEB Ltd., a licensee.</p>		
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## **Need for Relaxing the eligibility condition for class II Competency certificate for Electrical technicians**

M/s BSES Rajdhani Power Limited has intimated that they have got contractual support staff who have been working with BSES Contractors for long period but does not have requisite qualification to be given class II competency certificate for technician as per Delhi government guideline. As such, they are facing problem of working without any legal standing and are likely to be deprived of any benefit as per Contract Labour Act 1970. The guidelines of Labour Department, Government of NCT of Delhi for allocation of class II competency certificate for electrical technicians stipulates that the workmen with ITI qualification would be eligible directly for the class II competency certificate. However, the candidates who have got experience but does not have requisite qualification are required to sit in exam conducted by the Labour Department Government of Delhi and only on qualifying the exam they would be eligible for the class II competency certificate for technician. For the last few years, Government of Delhi has not conducted any exam, as a result, many of the contractual workers working with Delhi Discoms did not got the opportunity to qualify in the exam and obtain the class II competency certificate for technician.

The issue was discussed with the Delhi Discom, Delhi Labour Inspectorate and also with the Power Sector Skill Council in a meeting held with them on 08/09/2017, wherein, the Electrical Inspector of NCR Delhi informed that since Government of Delhi was facing problem in conducting the exams so the exam could not be taken for the last few years and Government of Delhi vide their Gazette Notification dated 27.1.2017 had stopped taking any exam and as such, presently, there is no

provision for allocation of class II competency certificate to those applicants who have got experience but does not have the requisite qualification.

The general view of the meeting was that since Government of NCT Delhi has done away with the provision for taking exam and as per Section 29 of CEA Electrical Safety Regulation, there is a provision for the State Government for taking exemption through notification in official gazette. Government of NCT of Delhi may consider empowering the Power Sector Skill Council (PSSC)/ CEA approved Training Institute, who have developed skill specific modules and are also approved by Ministry of skill Development to train these workmen in the required module, test them and if qualified recommend them to the Department of Labour, Government of NCR of Delhi for issuance of Class II competency certificate for technician.

For issuance of the Class II Competency Certificate to those candidates who does not have the required ITI qualification but have working experience, following criteria may be considered by Government of NCR of Delhi:

- i) Training module for 80 hours for those people who are having working experience in the desired field for five years or more
- ii) For those people having lesser experience may be considered for 350 hours training module.

As such, Department of Labour, Govt. of NCT of Delhi if agreed with the above proposal, once again requested to expedite the issuance necessary amendment in Delhi Gazette in this regard and confirm this office at the earliest.

The above proposal is a common issue which have been happening in the Discoms elsewhere in India. All the participants may take a note of the above issue

and discuss the same with their respective department for discussing on the same in the SCES and taking a pan India view in this regard.

During the meeting the participating organizations were of the view that Since Government of Delhi does not have any provision for taking the exam and as per Section 29 of CEA Regulation, there is a provision for exempting by the State Government through notification in official gazette regarding the conditions for issuance of the class II competency certificate. So Delhi Government can take the help of the Power Sector Skill Council (PSSC) who have developed modules which are skill specific and are also approved by Ministry of skill Development. PSSC has the provisions for giving training to these workers in their respective job modules (i.e. 80 hours 350 hours as per requirements) and then taking exams and certifying the eligible candidates. So instead of Delhi Government taking exam, Power Sector Skill Council can train these workmen in the required module, test them and if qualify, recommend to the Department of Labour, Government of NCR of Delhi for issuance of Class II competency certificate for technician.