



For BIS Use Only

BUREAU OF INDIAN STANDARDS

MINUTES

| Name of the Committee | No. of Meeting | Day | Date | Time | Venue |
|--|-----------------------|------------|--------------|-------------|--|
| Low Voltage Switchgear and Controlgear Sectional Committee, ETD 07 | 27 th | Friday | 29 July 2022 | 1030h | BIS Webex URL : https://bisindia.webex.com/bisindia/j.php?MTID=m6a34d611527efd03e01a6e24cd0d86f1 Meeting no.: 2514 777 4333 Password : sdGQTpZM337 |

CHAIRMAN: Shri Anupam Awasthi

MEMBER SECRETARY: Smt Meghna Mudgal

Members Present:

| S. No | Organization | Name |
|--------------|---|------------------------|
| 1. | CHAIRPERSON (ETD 07) In Personal Capacity | Shri Anupam Awasthi |
| 2. | MEMBER SECRETARY (ETD 07) Bureau of Indian Standards (BIS) | Smt Meghna Mudgal |
| 3. | ABB India Limited | Shri Devchandra Kuril |
| 4. | ABB India Limited | Shri Shelesh Tiwari |
| 5. | BCH Electric Limited | Shri Vishank Aggarwal |
| 6. | BCH Electric Limited | Shri Uak Patro |
| 7. | Bharat Heavy Electrical Limited | Shri Debasis Rath |
| 8. | Bharat Heavy Electrical Limited | Shri Dinesh Pawar |
| 9. | CESC | Shri A. K Biswas |
| 10. | Central Electricity Authority | Ms Bhaavya Pandey |
| 11. | Central Electricity Authority | Ms Arti Singh |
| 12. | Central Power Research Institute | Shri Swaraj Kumar Das |
| 13. | Central Power Research Institute | Shri Vasudevamurthy |
| 14. | Electrical Research and Development Association | Shri Y.I.Pathan |
| 15. | Electrical Research and Development Association | Shri Goutam Som |
| 16. | Elmex Controls Private Limited | Shri Robin H Virani |
| 17. | Engineers India Limited | Smt Shirali Aggarwal |
| 18. | Engineers India Limited | Shri Manish Kumar |
| 19. | Hager Electro Private Limited | Shri Shirish Zope |
| 20. | Havells India Limited | Shri Manoj Kumar Gupta |
| 21. | HPL Electric and Power Limited | Shri G N Sharma |
| 22. | HPL Electric and Power Limited | Shri Rishi Seth |



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|-----------------|---|---------------------------|
| 23. | In Personal Capacity | Shri Anil Pandit |
| 24. | In Personal Capacity | Shri Satya Prakash Sharma |
| 25. | Indian Electrical and Electronics Manufacturers Association | Shri Ashutosh Vasisht |
| 26. | International Copper Association India | Shri Debdas Goswami |
| 27. | Jasper Engineers Private Limited | Shri Arvind Mathur |
| 28. | KEC International Limited | Shri Sumit Sardana |
| 29. | Legrand India Ltd. | Shri Rajan Parab |
| 30. | Panasonic Life Solutions India Private Limited | Shri Vijay Wedhane |
| 31. | Schneider Electric India Private Limited | Shri Anilesh K |
| 32. | Schneider Electric India Private Limited | Shri Saravanan Shanmugam |
| 33. | Schneider Electric India Private Limited | Shri C.S. Kore |
| 34. | Schneider Electric India Private Limited | Shri Ritesh Kumar Patel |
| 35. | Siemens Limited | Shri Rahul Srivastava |
| 36. | Small Scale MCD Manufactures Welfare Association | Shri Parmod Jain |
| 37. | UL India Private Limited | Shri Chandrakumar.S |
| 38. | Western India Switchgear Manufacturers Association | Shri Shashin Shah |
| Invitees | | |
| 39. | Shri Narayanan Surendran | |

Item 0 GENERAL

0.1 WELCOME & OPENING REMARKS BY THE CHAIRMAN

The Chairman welcomed the members present to the meeting. He appreciated the efforts of members actively contributing to the process of standardization and hoped for a fruitful discussion on all Agenda points. He advised the members to examine IEC documents circulated from time to time and to provide comments so that India-specific view-point is considered at the time of development and revision of important IEC standards which are accepted and implemented in India as well.

0.2 Member Secretary welcomed the members to the meeting and briefed the members regarding various agenda points which required detailed discussions and solicited the co-operation of the members for completing the agenda in time.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The minutes of the 26th meeting of Low Voltage Switchgear and Controlgear Sectional Committee, ETD 07, held on 17 Jan 2022 virtually, were formally confirmed by the committee.

Item 2 COMPOSITION OF LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR SECTIONAL COMMITTEE, ETD 07

The committee reviewed the committee composition and the co-option requests received and the following was decided.

- i) It was decided to re-write to the top management of the following organizations:
 - a. Consumer Guidance Society of India – Mr Anil Pandit agreed to follow up with relevant personnel for providing fresh nominations
 - b. Development Commissioner Micro-Small & Medium Enterprises – Mr Anil Pandit



- agreed to follow up with relevant personnel for providing fresh nominations
- c. DRDO - Mr Anil Pandit and Mr Rahul Srivastava, M/s Siemens Limited agreed to follow up with relevant personnel for providing fresh nominations
 - d. Jasper Engineers Pvt. Ltd. – Mr Vishank, M/s BCH Electric Ltd. agreed to follow up with relevant personnel for providing fresh nominations
 - e. Haryana Vidyut Prasaran Nigam Limited
 - f. GE Energy Management System
 - g. SAIL
 - h. Sur Iron and Steel Company Private Limited
- ii) It was decided to migrate the nominations of M/s Larsen and Turbo Ltd. to M/s Schneider Electric India Pvt. Ltd. The representatives were requested to inform about the respective departments in the organization so that the same may be included in the composition so as to aptly include representations from the different product category departments of Schneider Electric India Pvt. Ltd.
- iii) It was decided to co-opt Mr Gajendra Babu (since his superannuation from M/s Siemens Ltd.) in personal capacity given his vast experience in the area; subject to his consent.
- iv) It was decided not to co-opt Mr Satish Shankar Tambe as his request was received as an individual and the committee felt that his credentials were not relevant or with experience which would be relevant for the committee. Further, it was observed that co-option requests must come from the organization.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

The committee noted the information given in the agenda.

Item 4 PRESENT POSITION OF WORK

The committee noted the information given in the agenda.

4.1 DRAFTS FINALIZED FOR PRINTING

The committee noted that the following drafts had completed wide circulation and no comments had been received during wide circulation.

| SI No. | IS/IEC no. | Action reported in the agenda | Decision Taken |
|---------------|---|--|--|
| 1. | Doc ETD 07 (19612) Low-Voltage Switchgear and Controlgear: Part 1 General Rules (<i>Second Revision of IS/IEC 60974-1:2007</i>) Identical to IEC 60947-1: 2020 | Issued in wide circulation on 23 May 2022. Last date for comments: 22 June 2022 No comments were received. | The committee finalized the document for printing. |
| 2. | Doc ETD 07 (19617) Low - Voltage switchgear and controlgear: Part 2 circuit - Breakers (First Revision) | Issued in wide circulation on 23 May 2022. | The committee finalized the document for printing. |



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|----|---|---|---|
| | <p><i>Amendment – 1 to IS/IEC 60947-2</i></p> <p>Identical to Amendment 1 (2019) to IEC 60947-2: 2016</p> | <p>Last date for comments: 22 June 2022</p> <p>No comments were received.</p> | |
| 3. | <p>Doc ETD 07 (19618)</p> <p>Low-Voltage Switchgear and Controlgear: Part 3 Switches Disconnectors Switch-Disconnectors and Fuse-Combination Units (<i>Second Revision of IS/IEC 60947-3:2012</i>)</p> <p>Identical to IEC 60947-3: 2020</p> | <p>Issued in wide circulation on 23 May 2022.</p> <p>Last date for comments: 22 June 2022</p> <p>No comments were received.</p> | <p>The committee finalized the document for printing.</p> |
| 4. | <p>Doc ETD 07 (19619)</p> <p>Low-Voltage switchgear and controlgear: Part 4-1 Contactors and motor starters electromechanical contactors and motor-Starters (<i>Second Revision of IS/IEC 60947-4-1:2012</i>)</p> <p>Identical to IEC 60947-4-1:2018</p> | <p>Issued in wide circulation on 23 May 2022.</p> <p>Last date for comments: 22 June 2022</p> <p>No comments were received.</p> | <p>The committee finalized the document for printing.</p> |
| 5. | <p>Doc ETD 07 (19620)</p> <p>Low-Voltage switchgear and Controlgear: Part 4-2 Contactors and Motorstarters semiconductor motor controllers starters and Soft starters (<i>Second Revision of IS/IEC 60947-4-2:2011</i>)</p> <p>Identical to IEC 60947-4-2: 2020</p> | <p>Issued in wide circulation on 23 May 2022.</p> <p>Last date for comments: 22 June 2022</p> <p>No comments were received.</p> | <p>The committee finalized the document for printing.</p> |
| 6. | <p>Doc ETD 07 (19621)</p> <p>Low-Voltage Switchgear and Controlgear: Part 4-3 Contactors and Motor-Starters Semiconductor Controllers and Semiconductor Contactors for Non-Motor Loads (<i>Third Revision of IS/IEC 60947-4-3:2014</i>)</p> <p>Identical to IEC 60947-4-3: 2020</p> | <p>Issued in wide circulation on 23 May 2022.</p> <p>Last date for comments: 22 June 2022</p> <p>No comments were received.</p> | <p>The committee finalized the document for printing.</p> |
| 7. | <p>Doc ETD 07 (19622)</p> <p>Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (<i>Second</i></p> | <p>Issued in wide circulation on 23 May 2022.</p> <p>Last date for comments: 22 June 2022</p> | <p>The committee finalized the document for printing.</p> |



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| | <i>Revision of IS/IEC 60947-5-1:2009)</i> Identical to IEC 60947-5-1:2016 | | |
| | | No comments were received. | |
| 8. | Doc ETD 07 (19623) Low-Voltage Switchgear and Controlgear: Part 5-2 Control Circuit Devices and Switching Elements Proximity Switches (<i>First Revision of IS/IEC 60947-5-2: 2007</i>) Identical to IEC 60947-5-2: 2019 | Issued in wide circulation on 23 May 2022. Last date for comments: 22 June 2022 | The committee finalized the document for printing. |
| | | No comments were received. | |

4.2 DRAFTS APPROVED FOR WIDE CIRCULATION

| Sl No. | Draft IS No. & Title | Eqv. IEC (with degree of equivalence) | Latest IEC | Action Reported in the agenda | Decision taken |
|-----------------|---|--|-------------------------------|--|--|
| REVISION | | | | | |
| 1. | Amendment 1 to IS 17120: 2019 In-Cable control and protection device for mode 2 charging of electric road vehicles IC – CPD | IEC 62752: 2016 Identical | IEC 62752:2016+AMD1: 2018 CSV | Draft Amd 2 of IEC was circulated to ETD 07 members and comments were received from M/s Legrand India recommending for sharing negative vote (with comments) to IEC. The same were circulated to members seeking their comments on M/s Legrand's comments. M/s Hager Electro Pvt. Ltd and M/s Schneider Electric India Ltd. submitted their agreement for a negative vote with comments. The comments given at Annex 3 of the agenda have been shared with IEC with a negative vote on the document with the permission of the Chair of the committee. | It was decided to send the comments prepared by ETD 07 to ETD 51 for obtaining their considered view as well, before finalizing the comments for sending to IEC. The final comments shall then be sent with the approval of Chair (ETD 07) to IEC. The committee decided to send the IEC Amd 1: 2018 in wide circulation for 60 days. The document shall also be sent to ETD 51 members during wide circulation for inviting comments. |



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| 2. | First Revision of IS/IEC 60898 (Part 2) : 2003 Electrical accessories - Circuit - Breakers for overcurrent protection for household and similar installations: Part 2 circuit - Breakers for ac and dc operation | IEC 60898-2: 2003 Identical | IEC 60898-2:2016 | Latest IEC standards were circulated to committee members vide email dated 23 Feb 2022. No comments have been received from the members on the latest IEC standard. | The committee decided to send the IEC 60898-2: 2016 in wide circulation for 60 days. |
| 3. | First Revision of IS/IEC 60947-6-1: 2013 Low-Voltage Switchgear and Controlgear: Part 6 Multiple Function Equipment, Section 1 Transfer switching equipment | IEC 60947-6-1:2005 +AMD1:2013 CSV Identical | IEC 60947-6-1:2021 | | The committee decided to send the IEC 60947-6-1: 2021 in wide circulation for 60 days. |
| 4. | First Revision of IS/IEC 60947-6-2: 2007 Low-voltage switchgear and controlgear: Part 6 Multiple function equipment Section 2 Control and protective switching devices or equipment CPS | IEC 60947-6-2: 2007 Identical | IEC 60947-6-2:2020 | The committee decided to send the IEC 60947-6-2: 2020 in wide circulation for 60 days. | |
| 5. | First Revision of IS/IEC 61439-1: 2011 Low-Voltage Switchgear and Controlgear Assemblies: Part 1 General Rules | IEC 61439-1:2011 Identical | IEC 61439-1:2020 | The committee decided to send the IEC 61439-1: 2020 in wide circulation for 60 days. | |
| 6. | First Revision of IS/IEC 61439-2: 2011 Low Voltage Switch Gear and Controlgear Assemblies: Part 2 Power Switch Gear and Control Gear Assemblies | IEC 61439-2: 2011 Identical | IEC 61439-2:2020 | The committee decided to send the IEC 61439-2: 2020 in wide circulation for 60 days. | |
| 7. | First Revision of IS/IEC/TS 61439-7: 2014 Low-Voltage Switchgear and Controlgear Assemblies: Part 7 Assemblies for Specific Applications such as Marinas, Camping Sites, Market Squares, Electric Vehicles Charging Stations | IEC 61439-7:2014 Identical | IEC 61439-7:2018 | The committee decided to send the IEC 61439-7: 2018 in wide circulation for 60 days. The document shall also be sent to ETD 20 and ETD 51 members during wide circulation for inviting comments. | |

NEW SUBJECT



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| 8. | IEC 60898-3:2019+AMD 1: 2022 CSV Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 3: Circuit-breakers for DC operation | - | - | - | The committee decided to send the IEC 60898-3: 2019+AMD1:2022 CSV in wide circulation for 60 days. (<i>see also Item 7.3 of these minutes</i>) |
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4.3 P-DRAFTS UNDER PREPARATION

| Sl No. | IS No. | Decision Taken in last meeting | Action reported in the agenda | Decision Taken |
|--------|---|---|--|--|
| 1. | IS 13032: 1991 'A.c. miniature circuit - Breaker boards for voltages not exceeding 1000 V - Specification' | The committee reviewed and discussed the Comments received on IS 13032: 1991 'Ac miniature circuit - Breaker boards for voltages not exceeding 1000 v - Specification'. It was discussed in conjunction with the New Work Item proposal on the similar subject (<i>see Item 8.2 below</i>). The committee decided to invite Mr Narayan Surendran to the next meeting for further detailed discussions. It was decided that in the meantime, the comments and the draft NWIP shall be reviewed and the committee members were requested to provide their views/comments on both. Mr Anil Pandit agreed to review the comments received from the committee members and submit a consolidated report for consideration of the committee. | Mr Anil Pandit may update the committee on the progress of work. | Mr Anil Pandit informed the committee that he has examined the draft NWIP along with comments submitted by Mr Surendran. He clarified that all configurations are covered under IS 13032. Mr Narayan Surendran had been invited to the meeting. The committee clarified that a separate standard or a revision may not be required if the product can be tested as per some, if not all, clauses of IS 13032. To obtain further clarity, Mr Surendran was requested to get his product tested based on IS 13032 (applicable clauses may be tested) and in addition, test reports of tests carried out by him in his factory may also be shared with the committee to provide a clarity to the committee if IS 13032 requires revision or not based on his comments and NWIP draft. |
| 2. | IS 12640 (Part 1): 2016 Residual current operated Circuit | Equivalent IEC: Identical to IEC 61008-1: 2010+Amd 1: 2012 CSV | Latest IEC amendment documents were | Mr C S Kore, M/s Schneider Electric India Pvt. Ltd. informed the committee that he had identified and prepared |



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| | <p>Breakers without integral overcurrent protection for household and similar uses RCCBs: Part 1 general rules (Second Revision)</p> | <p>Latest Base IEC: IEC 61008-1:2010+A MD1:2012 +AMD2: 2013 CSV</p> <p>Mr C S Kore, M/s L&T and Mr Chandrakant, M/s UL India to submit a consolidated report based on comments received after review of the standards by the committee members</p> | <p>circulated to committee members vide email dated 23 Feb 2022.</p> <p>No comments were received from the members.</p> | <p>a list of changes being introduced by the amendment 2 of IEC. He also displayed and explained the list to the committee during the meeting. It was decided to circulate the list of changes among the committee members for 15 days seeking comments on the Amendment 2.</p> <p>The committee decided to send the document in wide circulation for 30 days, if no comments are received on the above list of changes.</p> <p>In case, comments are received on the list of changes, the comments shall be taken up for consideration of the committee in its next meeting.</p> |
| 3. | <p>IS 12640 (Part 2): 2016 Residual current operated circuit - Breakers with integral overcurrent protection for household and similar uses (RCBOs): Part 2 General rules</p> | <p>Equivalent IEC: Identical to IEC 61009-1:2010+AM D1:2012 CSV</p> <p>Latest Base IEC: IEC 61009-1:2010+AMD1:2012 +AMD2: 2013 CSV</p> <p>Mr C S Kore, M/s L&T and Mr Chandrakant, M/s UL India to submit a consolidated report based on comments received after review of the standards by the committee members</p> | | <p>Mr Chandrakumar S, M/s UL India Pvt. Ltd. agreed to prepare a list of changes being introduced by the amendment 2 of IEC.</p> <p>It was decided to circulate the list of changes among the committee members for 15 days seeking comments on the Amendment 2.</p> <p>The committee decided to send the document in wide circulation for 30 days, if no comments are received on the above list of changes.</p> <p>In case, comments are received on the list of changes, the comments shall be taken up for consideration of the committee in its next meeting.</p> |

Item 5 Review of Published Standards for Revision/Reaffirmation

5.1 The committee noted the information given in the agenda.

5.2 Action Research Projects (ARP)



A. The committee examined the Action Research Project (ARP) reports submitted by BIS officials to review and assess the following Indian Standards under the purview of ETD 07:

- i) IS 5039: 1983 Specification for distribution pillars for voltages not exceeding 1000 V AC and 1200 V DC (First Revision)
- ii) IS 13947 (Part 5/Sec 2): 2004 Low - Voltage switchgear and controlgear – Specification: Part 5 control circuit devices and switching elements, Sec 2 proximity switches

It was decided that the Working Group WG 1 (Shri Swaraj Kumar Das, CPRI (*Convener*), Shri Rahul Srivastava, Siemens Ltd. (*Member*), Shri Anil Kumar Pandit, In personal capacity (*Member*), Shri Chandrakumar S, UL India Pvt. Ltd. (*Member*) and Shri Anilesh K, Schneider Electric India Pvt. Ltd. (*Member*)) shall review the reports and submit its recommendations for consideration of the committee within 1 month.

B. The Working Group WG 1 informed that 7 meetings of the working group had been conducted and the WG had reviewed the following Indian Standards which are pre-2000 standards and presented the Action Research Projects (ARPs) reports (see Annex 5 of the agenda) for consideration of the committee and the following was decided:

- i) IS 8588 (Part 1): 1977 Specification for thermostatic bimetals: Part 1 General requirements and methods of tests

Recommendation by WG 1: Need additional review time

Decision of the committee: The committee discussed that there may be implications for bimetal manufacturers in case of revision or withdrawal of this standard.

It was decided to write to M/s Kanthal, M/s Shivalik and ETD 32 'Electrical Appliances' committee of BIS where there may be relevant manufacturers/stakeholders of thermostatic bimetals, seeking confirmation as to which IS is now followed for the general requirements and tests for thermostatic bimetals.

The committee shall then decide based on the responses received.

- ii) IS 14577: 1998 Short - Circuit current evaluation with special regard to rated short - Circuit capacity of circuit - Breakers in installations in ships – Guide

Recommendation by WG 1: Align with Current version of base IEC standard, as Dual number standard

Decision of the committee: The committee decided to send the latest IEC 61363-1:1998 in wide circulation for 60 days to align with the IEC standard and publish the standard in Dual no. i.e. IS 14577/ IEC 61363-1:1998.

- iii) IS 14614: 1998 Residual current - Operated protective devices RCDs for household and similar use - Electromagnetic compatibility

Recommendation by WG 1: Align with current version of IEC Standard

Decision of the committee: The committee noted that IS 12640 series makes reference to this IS. The committee further noted that latest IEC 61543 is under the final stage of publication at IEC as FDIS.

This finalized IEC revision draft constitutes a technical revision. This edition includes the following significant changes with respect to the previous edition:

- a. Some editorial modifications were introduced to comply to the ISO/IEC Directives Part 2:2021, e.g. introduction of Clause 3 – Terms and Definitions and renumbering



of the whole document. In particular, the numbering of performance criteria has been changed (5.1.1, 5.1.2 become A, B, etc.);

b. Some technical improvements:

- Modification of scope and addition of Clause 6 and Clause 7 to enable the use of this document as a guideline for the preparation of EMC requirements and tests for other product standards under the scope of TC 23E;
- Requirements for voltage dips and interruptions added;
- Repetition rate for burst-test, defined at 5 kHz;
- Surge test: Specifying impulse voltage application point and adding of voltages 2 kV, 1 kV and 0.5 kV to test T 5b;
- Radiated radio-frequency electromagnetic field: Adding of frequency range 1.4 GHz to 6 GHz and specifying frequencies for the test at 1.25 IΔn;
- Conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz: Specifying frequencies for the test at 1.25 IΔn;
- Electrostatic discharges: Change of performance criteria from 5.1.3 to B.

The committee decided to send the latest IEC 61543 (once published by IEC) into wide circulation for 60 days.

- iv) IS 8623 (Part 2): 1993 Specification for low - Voltage switchgear and controlgear assemblies: Part 2 Particular requirements for bus-bar trunking systems busways (*first revision*)

Recommendation by WG 1: Withdraw IS 8623 (Part 2): 1993

Decision of the committee: The committee agreed that the requirements of IS 8623 (Part 2): 1993 are now covered under IS/IEC 61439-6:2012. It was, therefore, decided to withdraw IS 8623 (Part 2): 1993.

- v) IS 8623 (Part 3): 1993 Specification for low - Voltage switchgear and controlgear assemblies: Part 3 Particular requirements for equipment where unskilled persons have access for their use

Recommendation by WG 1: Withdraw IS 8623 (Part 3): 1993

Decision of the committee: The committee agreed that the requirements of IS 8623 (Part 3): 1993 are now covered under IS/IEC 61439-3:2012. It was, therefore, decided to withdraw IS 8623 (Part 3): 1993.

5.3 Clarification regarding coverage of product in Indian Standards under the purview of ETD 07

In the last meeting, the committee had reviewed and discussed the submission in detail. The committee re-considered the responses submitted by the enquirer. The committee noted that as per the mail communications made by enquirer to the labs viz. FCRI and ERTL, the enquirer has not indicated the specific parameters and the acceptance criteria which the labs must verify in order to establish the performance of the product.

In order to ensure a fail-safe consideration by the committee of this query and similar queries, a new Working Group WG 2 was formed which would draft a template of questions and provide recommendation to the committee for providing clarification based on responses received to the questions. The composition of the working group WG 2 is given below:

- i) Shri Swaraj Kumar Das, CPRI (*Convener*)
- ii) Shri Anil Pandit, In personal capacity (*Member*)



- iii) Shri Chandrakumar S, UL India Pvt. Ltd. (*Member*)
- iv) Shri C S Kore, Schneider Electric India Ltd. (*Member*)

The Working Group shall provide the template within 15 days so that the same may be shared with the enquirer without any further delay.

It was decided that once the details are received, the committee shall re-consider and will be able to confirm whether the product is covered under any of the Indian Standards on Low Voltage Switchgear and Controlgear.

Item 6 IMPLEMENTATION OF INDIAN STANDARDS

The committee noted the information given in the agenda.

Item 7 INTERNATIONAL ACTIVITIES

7.1 Programme of Work and List of Published Standards

The committee was informed that the IEC SC 121A/WG 2 meeting is proposed to be hosted in India in Jan 2023. Mr Rahul Srivastava, M/s Siemens (member WG2 from India) confirmed that M/s Siemens shall facilitate the registered experts of the Working Group (WG) for conference room, stay and other related logistics.

The committee conveyed its concurrence to the above proposal for hosting the IEC SC 121 A/WG 2 meeting in India as per details mentioned above.

7.2 The agenda for the upcoming meetings of IEC TC 121, SC 121A, SC 121B, SC 23E scheduled during 04 Nov, 03 Nov, 04 Nov and 31 Oct respectively at San Francisco, USA was discussed.

The committee recommended to submit affirmative votes on the following during the meetings:

- i) Proposal for a Joint Advisory Group on Electric Vehicle energy transfer: Functional and safety aspects
- ii) Proposal for liaison between SC23E and TC 121

The committee agreed to review the agenda for the meetings further and provide any additional comments within 10 days.

7.3 The committee examined the proposal of ETD 50 Sectional committee for adapting IEC 60898-3 in India. Considering the growing need of DC network and increasing demand of DC products, the committee agreed that there is a need for standardization of DC MCBs.

It was, therefore, decided to send **IEC 60898-3: 2019+AMD1:2022 CSV** in wide circulation for 60 days as Indian standard (*see also Sl no. 8 of Item 4.2 of these minutes*).

7.4 The committee formed the following working groups to review and prepare recommendations on the documents circulated by IEC for ballot/voting from National Committees:

| WG 3 For review of IEC TC 121 and SC 121A ballot documents | WG 4 For review of IEC SC 121B ballot documents | WG 5 For review of IEC SC 23E ballot documents |
|---|--|---|
| Shri B R Vasudevamurthy, CPRI - Convener | Shri Goutam Som, ERDA - Convener | Shri Chandrakumar S, M/s UL India Pvt. Ltd. - Convener |
| Shri Robin Virani, M/s Elmex Controls Pvt. Ltd. | Shri Shelesh Kumar Tiwari, M/s ABB India Limited | Shri Anilesh K., M/s Schneider Electric India Pvt. Ltd. |



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| Shri Shelesh Kumar Tiwari, M/s ABB India Limited | Shri Saravanan Shanmugam, M/s Schneider Electric India Pvt. Ltd. | Shri Vishank Aggarwal, BCH Electric Limited |
| Shri Rahul Srivastava, M/s Siemens Ltd. | Shri C.S.Kore, M/s Schneider Electric India Pvt. Ltd. | Shri Shirish Zope, M/s Hager Electro Pvt. Ltd. |
| Shri Ritesh Kumar Patel, M/s Schneider Electric India Pvt. Ltd. | Shri Vishank Aggarwal, BCH Electric Limited | Shri Anil Pandit, In personal capacity |
| Shri Anil Pandit, In personal capacity | - | Shri Suresh Deotalu, M/s Legrand India |
| Shri Vishank Aggarwal, BCH Electric Limited | - | - |

Member Secretary apprised the committee of the IEC Global Relevance Toolbox.

The IEC Global Relevance Toolbox (GRT) provides an instrument to facilitate the inclusion of national requirements in standards of the International Electrotechnical Commission (IEC) without the need to develop separate national standards. This tool facilitates direct adaptation of IEC documents reducing the need to make modifications in the IEC standards in line with nation specific requirements.

IEC Standardization Management Board (SMB) has established an AdHoc group ahG 93 'Use of Global Relevance Toolbox in technical procedures'

The group is tasked with the following:

- i) Develop a guidance document on the GRT as outlined in the final report of MPI NC WG 3.
- ii) Support Central Office in implementing the GRT in technical processes (e.g. through standards development platform).
- iii) Engage with ISO to align approaches on the issue of global relevance.
- iv) Propose recommendations for potential inclusions in the Directives.

Therefore, in addition to providing recommendations on ballots/ preparing India specific comments, the working groups shall also review the IEC ballot documents/questionnaires for possible identification of areas where India specific annexures may be included in the IEC documents with the implementation of the Global Relevance Toolbox. Detailed drafts may then be prepared by the Working groups for the same with the concurrence of the committee.

Item 8 FUTURE PLANS AND STRATEGIES

The Committee deliberated upon the future plans and strategies to be adopted by the ETD 07 during the next 5 years aiming at contribution in related standardization activity at national and international level.

Drawing from the Standards National Action Plan (SNAP), ETD 07 decided to develop a Strategic Road Map as a document, which would reflect its vision of national standardization in its relevant sector and provide a broad standardization roadmap with a five-year perspective. The aim is to align the standardization work with national priorities and expressed business environment needs and trends and to allow sectional committee to prioritize among different projects, to identify the benefits expected from the availability of Indian Standards, and to ensure adequate resources for their development.

The following working group WG 6 was formed to prepare a Standardization Plan for ETD 07 as mentioned above:

- i) Smt Meghna Mudgal, BIS – Convener
- ii) Representative from Central Electricity Authority
- iii) Shri Swaraj Kumar Das, CPRI



- iv) Shri Chandrakumar S, M/s UL India Pvt. Ltd.
- v) Shri Vishank Aggarwal, BCH Electric Limited
- vi) Shri C.S.Kore, M/s Schneider Electric India Pvt. Ltd.
- vii) Shri Anil Pandit, In personal capacity
- viii) Shri Rahul Srivastava, M/s Siemens Ltd.
- ix) Shri Uak Patro, M/s BCH Electric Ltd.
- x) Shri Shelesh Kumar Tiwari, M/s ABB India Limited
- xi) Shri Robin Virani, M/s Elmex Controls Pvt. Ltd.

The working group was advised that reference may be taken from ETDC Strategic Roadmap and IEC committees' Strategic Business Plans for preparing the Standardization Plan for ETD 07.

Item 9 DATE AND PLACE OF NEXT MEETING

The next meeting of the committee shall be held in Oct 2022. The final date and place of the next meeting shall be decided in consultation with the Chair of the committee.

Item 10 ANY OTHER BUSINESS

There being no other business, the meeting ended with a vote of thanks to the Chair.