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BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
ETD 14 - Electrical Wiring Accessories Sectional Committee	**37th**	**Wednesday**	**18th December 2024**	**10:00 AM**	**Mimaansa(White Room) Physical Meeting**

CHAIRMAN: : Shri Vimal Kumar, CE, CPWD **MEMBER SECRETARY**: Ms. Ankita Tripathi

Item 0 WELCOME AND OPENING REMARKS BY THE CHAIRMAN

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the last meeting (36th meeting) of the Electrical Wiring Accessories Sectional Committee, ETD 14 held on 13th June 2024, were circulated to the committee members on 11th July 2024 with last date of comments as 26th July 2024. No Comments were received from the committee members on the minutes.

1.2 In view of the above, the committee may formally confirm the minutes of the last meeting.

Item 2 ACTION ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item No.	Subject	Decision taken in the previous meeting	Action Taken
1.	**1.2 (1)**	Inclusion of 25 A Rating Plugs and Sockets in IS 1293:2019 Plugs and socket- outlets of rated Voltage up to and including 250 Volts and rated current up to and including 16 amperes- Specification (Fourth Revision), Based on the recommendatio	• The proposal for inclusion of 25 A rating Plugs and Sockets in IS 1293:2019 was discussed in detail. • The recommendation of ETD 20(Safety of electrical installations sectional committee) on the matter was discussed. It was decided that the concerns of risk to safety in long run due to the introduction of higher rating plug /socket outlet and incidents of fire accidents as pointed out by ETD 20 should be taken into consideration. • However, the committee further discussed that there is a need of 25 A rating Plugs and socket outlets for connection of heavy load household appliances such as geysers, Air	As per the decision taken in the 36th meeting of the committee held on 13th June 2024, Legrand was requested to provide the draft specification including the test requirements and testing conditions, as per which the prototype of 25A rating plugs and socket outlets as developed by Legrand is to be tested, so that the prototype could be sent to BIS Western Regional Laboratory for testing. However, the draft specifications were received from Legrand on 9th October 2024. The specifications were sent to BIS western Regional Laboratory for the providing the status of feasibility of testing. Meanwhile the specifications were also circulated to the committee member for any specific comments.

		n of the committee, the proposal of ETD 14 for inclusion of 25A plugs and socket outlets in IS 1293:2019 was discussed in the 40th meeting of the Safety of electrical Installations sectional committee, ETD, 20	Conditioners etc available in the market. The connection of these heavy load appliances to the existing 16A sockets may also cause risk to safety and fire hazards. • It was agreed that if the 25 A rating Plugs/socket outlets are introduced, the specifications and design should take care of all the essential safety parameters, ensure technical soundness and robust construction including different dimension and sizes of the pins, phase and neutral contacts etc. to ensure electrical safety/reliability and address the Safety concerns as raised by ETD 20. • It was also discussed that, if required, a R&D proposal to review the need of 25 A plugs and socket outlets for household applications in the country based on collection of empirical data and research can also be considered. • However, Mr. Suresh Deotalu from Legrand informed that based on the rigorous discussions held in the corresponding working group of ETD 14, they have already developed a prototype of 25 A rating Plugs and sockets taking all these safety aspects into consideration. A draft specification for 25 A plugs and socket Outlets for incorporation into IS 1293 has also been prepared by Legrand highlighting the changes required in the existing IS 1293 for inclusion of 25A Ratings. • In view of the above, it was unanimously agreed by the committee that the decision of inclusion of the 25 rating in IS 1293 shall only be taken when the developed prototype is tested for its technical soundness and it meets all the safety requirements. • Legrand to send the draft specification to BIS, prepared based on the discussions in ETD 14 working group, which also includes the test requirements and testing conditions, as per which the developed 25 A rating	As per the status report from WROL, only partial testing facility for 25A rating Plugs and socket outlets is available at WROL. Due to the requirement of additional loads up to 32 A, requirement of additional equipment due to new dimensions, test like making and breaking capacity test, Normal Operation test, Operation of earthing contacts, Resistance to abnormal heat on insulating sleeves is not feasible at WROL. The status of feasibility of complete testing of the 25A Plugs and socket outlet prototype as per the specifications provided by Legrand is therefore, being also enquired from BIS Central Laboratory, Sahibabad.

			prototype is to be tested. The protype to be sent for testing at BIS Western Regional Laboratory. The tests results to be presented before the committee in its next meeting for further decision by the committee on the matter. • A decision for the inclusion of the 25 A rating plugs and socket outlets in IS 1293 or the need of further R &D shall be taken by the committee based on inputs received.	
2.	**1.2(2)**	New Work Item Proposals- Socket with USB charger	The comments received on the draft was discussed by the committee. It was decided to again wide circulate the draft for 15 days after incorporation of the agreed changes. The committee members were requested to review the updated draft thoroughly with respect to any additional classifications required or any other changes/additions required in this document before finalization.	The updated draft after incorporation of the agreed changes was again wide circulated for 15 days. The comments received is placed at **ANNEXURE-3.**
3.	**1.2 (3)**	ETD/14/15900 Adaptors for Household and Similar Purposes – Particular Requirements	The committee noted the information that the document has been sent for printing.	Under final stage of printing
4.	**1.2 (4)**	Specifications for Cord Extension Sets	The committee noted the information	**Printed as IS 18830:2024**(Cord Extension Sets-Specifications)
5.	**1.2 (5)**	ETD/14/21251 Switch Socket Outlets non-interlock Type (First Revsion)	The committee noted the information that the document has been sent for printing.	Under final stage of printing
6.	**1.2(7)**	IS 11037: 2019 Electronic type fan regulators	The task of incorporate ng provision in IS 11037 for uniform speed variation in each step has been assigned to ETD WG 2 The committee noted the information. It was also discussed to look into the required wattage of fan regulators to enhance their regulation performance.	The meeting of the working group was held on 02.12.2024. The Minutes of the meeting including the present status of work in the working group is placed at **ANNEXURE 1.** **The Panel may update the committee**

			The committee directed the working group to expedite the collection of inputs from Fan Manufacturers and submit its report before the next meeting of the committee.	
7.	**4.3 (b)**	IS3419: 1988 Specification for fittings for rigid non – Metallic	The comments received on the draft was discussed by the committee. The decision taken with reference to the comments received is paced at **Annexure - 2.** It was decided to again wide circulate the draft for 15 days after incorporation of the agreed changes.	The updated draft after incorporation of the agreed changes was again wide circulated for 30 days. The comments received is placed at **ANNEXURE-2.**
8.	**4.3 (a)**	New Work Item Proposals- Particular requirements for plugs and socket outlets for SELV	Since, no comments have been received on the draft, the committee finalized the document for printing.	The document Sent for printing

Item 3 PRESENT POSITION OF WORK

3.1 The present programme of work under ETD 14 is given in **ANNEXURE-4.**

3.2 The following new standard was under Publication**:**

i. ETD 14 (21252): Time-Delay Switches TDS for Household and Similar Fixed Electrical Installations - Particular Requirements. The standard is based on IEC 60669-2-3 (2006) 'Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS).

ii. However, it has been found that IEC 60669-2-3 (2006) has been revised to IEC 60669-2-3:2024 in March 2024.

iii. In view of the above, the committee may kindly review and decide.

3.3. Comments received from Manak Manthan:

To facilitate better coordination among the Standardization Departments, BOs and Labs, and to ensure that the practical issues faced in the implementation of the standards are duly and promptly factored into the review of standards, it has been decided to have Manak Mantrana amongst all on the 1st and 16th of the month.

The comments received in Manak Manthan on Published standard is placed at **ANNEXURE 5**

The committee may discuss

Item 4 APPROVAL OF P DRAFTS FOR WIDE CIRCULATION

As per the decision taken in the 36th meeting of the sectional committee the following documents were circulated as P drafts for comments of committee members. The comments received are in agreement with the draft. The committee may finalize the draft for wide circulation.

Sl. No	Indian standard	P draft Document	Comments
1.	Revision of IS 16783: 2018 Cable Cleats for Electrical Installations (IEC 61914 : 2015)	ETD/14/26654: Revision in line with IEC 61914:2021	7 Comments received in agreement with the draft
2.	Revision of IS/IEC 61537 : 2006: Cable Management - Cable Tray System and Cable Ladder System	ETD/14/26655 Revision in line with IEC 61537:2023	5 Comments received in agreement with the draft
3.	Revision of IS/IEC 60669 : Part 2 : Sec 2: 2006: Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 2 Electromagnetic remote-control switches (RCS)	ETD/14/26656: Revision in line with 60669-2-2 : 2024	5 Comments received in agreement with the draft
4.	Revision of IS 17039 : 2018: Industrial Cable Reels (Identical to IEC 61316 : 1999)	ETD/14/26660: Revision in line with IEC 61316 : 2021	5 Comments received in agreement with the draft

Item 5 REVIEW/REAFFIRMATION OF INDIAN STANDARDS

5.1 Review of Standards - Taking up Revision of pre-2000 standards:
The status of Pre-2000 standard is placed at **ANNEXURE-6.**

5.2 Review of IS 371:1999: As per the decisions taken in the previous meetings of the committee, a group including Mr. Kapil Ajmera from WIEMA, Mr. Jai Bhagwan(Panasonic) and Mr. R K Jain (Kinjal Electricals) was requested to review the standard and submit its report with respect to the changes required in the standard in order to process its revision.
The report of changes required in the standard has been received from the group and same is placed at **ANNEXURE-7**

The committee may review

5.3 Reaffirmation of Indian standards:
As per BIS procedure, Indian Standards are to be reviewed which are 5 years old and are to be reaffirmed. As on date, the standards under ETD 14 that are due for reaffirmation are given at **ANNEXURE -8**

The committee may review.

Item 6 NEW SUBJECTS TAKEN UP FOR STANDARDIZATION

i. **Plugs and socket-outlets for household and similar purposes - Particular requirements for socket-outlets for furniture.**

Based on the discussion in 36th meeting of the sectional committee, the draft IEC Standard was circulated to all the members for review and comments with respect to development of Indian Standard. Comments received from Havells in favour. The committee may decide if the draft may circulated as P draft.

ii. **Insulated Boxes for Energy Meters**: A proposal has been received from IEEMA for development of Indian Standard on Insulated Boxes for Energy Meters. Draft Standard Received from IEEMA is placed at **ANNEXURE 9.**
Committee may kindly discuss.

ITEM 7 INTERNATIONAL ACTIVITIES

7.1 India **is Participating member in IEC TC 23 A , IEC TC 23 B Technical Committee** of the IEC.

The details of the subcommittee and corresponding Membership status is given below:

S. No	Sub Committees	Title	India Membership Status
1	TC 23	Electrical accessories	O Member
2	SC 23A	Cable management systems	P Member
3	SC 23B	Plugs, socket-outlets and switches	P Member
4	SC 23G	Appliance couplers	O Member
5	SC 23J	Switches for appliances	O Member

The committee may kindly note and discuss

7.2 Identification of IEC Publication for harmonization: The Indian standards which are formulated/revised based on IEC standards, are to be reviewed when the corresponding IEC standards are revised. The programme of work of IEC TC 23A and 23B is enclosed as **ANNEXURE – 10.**

The committee may review.

7.3 Details of balloting on IEC documents: The details of voting for IEC TC 23 A and IEC TC 23 B since last meeting is given in **ANNEXURE-11.**

All Members are requested to kindly provide their comments on all the IEC documents being circulated for comments. As a P member we have obligation to cast ballot on each and every document received from the concerned IEC technical committee.

7.4 Participation of Indian Delegation in the plenary meeting of IEC TC 23/SC 23A and IEC TC 23/SC 23B on 21.10.2024 and 22.10.2024 is Edinburgh, United Kingdom.

The following delegates have participated in the plenary meeting IEC TC 23/SC 23A' Cable management systems' and IEC TC 23/SC 23B 'Plugs, socket-outlets and switches' held on 21.10.2024 and 22.10.2024 is Edinburgh, United Kingdom.

Sl. no	Name of the Delegate	Name of the Organization	Mode of participation
1.	Ms. Ankita Tripathi	Scientist D, BIS	Physical Mode
2.	Mr. Suresh Deotalu	Novateur Electrical and digital Systems Private Limited	Physical Mode

The delegates may brief the committee.

7.5 Review of nominated experts in IEC TC 23/SC 23A and IEC TC 23/SC 23B.
The nominated experts from India in IEC TC 23/SC 23A and IEC TC 23/SC 23B is given in **ANNEXURE 12.**

The committee may review

7.6 Review of the Projects under IEC TC 23 A and IEC TC 23 B and designation of experts

- Focus will now be on participating in the making of ISO/IEC standards on the basis of the Level of Interest established in respect of a NWIP or draft standard.
- The Member Secretary, in consultation with the Chair of the Sectional Committee and the Head of the Department, and if necessary, with the entire Sectional Committee, shall determine and specify the Level of Interest for each NWIP or draft standard received from ISO/IEC in the IRD Portal.
- The next step is to designate one or two members of the Sectional Committee to represent BIS for standards categorized as Level H (High) and M (Medium). These designated experts will act as face and voice of BIS for the project at the ISO/IEC level.

Proposed Sectors:

S. No	Sector	Sub Sector
1	Plugs, socket-outlets and switches	Plugs, socket-outlets and switches i. Switches
2	Conduits for electrical installations and related accessories	-
3	Cable Management Systems	-
4	Other electrical accessories	i. Lamp Holders ii. Fan Regulators iii. Boxes and enclosures for electrical accessories iv. Other cable accessories and Couplers

The sector wise categorized Indian Standards is placed at **ANNEXURE-13**

The IEC TC SC 23A, SC 23B current programme of work along with the proposed level of interest is as follows:

S. No	Project Ref No	Level of Interest	IEC TC	Working Group	Designated experts
1.	(23B/1513/CD) IEC 60669-2-1 ED6 Switches for household and similar fixed electrical installations Part 2-1: Particular requirements - Electronic control devices	High	IEC TC 23/SC 23 B	MT 6	
2.	(23B/1549/RR) IEC60884-1/AMD1 ED4Amendment 1 - Plugs and socket-outlets for household and similar purposes - Part 1: General requirements	High	IEC TC 23/SC 23 B	MT 4	

3.	23B/1550/RR IEC 60884-2-4 ED4 Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV	High	IEC TC 23/SC 23 B	MT 4	
4.	23B/1506/CD IEC 60884-2-5 ED3 Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors	High	IEC TC 23/SC 23 B	MT 9	
5.	23B/1490/CDV IEC 60884-2-8 ED1 Plugs and socket-outlets for household and similar purposes - Particular requirements for socket-outlets for furniture	High	IEC TC 23/SC 23 B	PT 60884-2-8	
6.	23B/1503/CDV IEC 60884-3-2 ED1 Plugs and socket-outlets for household and similar purposes - Particular requirements for accessories incorporating electronic components to perform additional functions	High	IEC TC 23/SC 23 B	WG 23	
7.	23B/1349/NP IEC 60884-4 ED1 Energy Plug And Energy Socket Outlets	High	IEC TC 23/SC 23 B	WG 22	
8.	23B/1497/CD IEC 60906-2/AMD1 ED3 Amendment 1 - IEC system of plugs and socket-outlets for household and similar purposes - Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.	Low	IEC TC 23/SC 23 B	MT 20	
9.	23B/1477/CDV IEC 61995-1 ED2 Devices for the connection of luminaires for household and similar purposes - Part 1: General requirements	Low	IEC TC 23/SC 23 B	MT 13	
10.	23B/1478/CDV IEC 61995-2 ED2 Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL	Low	IEC TC 23/SC 23 B	MT 13	
11.	23B/1491/CDV IEC 63180/AMD1 ED1 Amendment 1 - Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection	Low	IEC TC 23/SC 23 B	MT 6	
12.	23B/1502/CD Fixed accessories intended for household and similar purposes that supply power through an interface	Low	IEC TC 23/SC 23 B	WG 21	
13.	23A/1075A/NP IEC 63243 ED1	High	IEC TC 23/SC 23 A	WG 22	

	CDD Database - Cable tray systems and cable ladder systems				

Item 8 COMPOSITION OF THE SECTIONAL COMMITTEE

8.1 The present composition of the Electrical Wiring Accessories Sectional Committee, ETD 14 is given at **ANNEXURE 14.**

9.2 Status of participation of members in the previous two meetings inviting suggestions for improvement

Standardization is a collaborative effort and its success largely depends on the participation and contribution of the members of the concerned technical committees. Further, for standards to be relevant it is also important that viewpoints of all interested stakeholders are brought on board and duly considered while building consensus on the standard being developed.

The status of participation of committee members in the previous two meetings is given in **ANNEXURE 14.** It is to be informed that absence from two consecutive meetings of the TC may result in the lapse of the membership.

The committee members are requested to provide suggestions for improvement

9.3 Action Points with respect to composition of the committee.

Sl. No.	**Subject**	**Subject**	**Action Taken**
i.	Co-option of Experts from Conduit Industry	It was discussed that the committee lacks adequate representation from the conduit Industry. It was therefore decided to add one or two major manufacturers from the conduit, fittings, and accessories sector, as the committee is currently working on revision of conduit and fitting standards.	Major Manufacturers in the conduit Industry were contacted for Nomination in the committee**.** **Interests have been received from the following :** **1)**The Supreme Industries Ltd, Gadegaon , Jalgaon i. Mr. G K Saxena Associate vice president – Operations ii. Mr. Anup Mandal Dy. General Manager – QA **2)** Finolex Goa-PVC Conduit Plant i. Mr. Jagdish Deshmukh ii. Mr. Uday Sarolkar **The committee may discuss and decide.**

ii.	Updated Nominations from Electrical Contractors Association of Maharashtra	Shri Sanjay Kolhatkar from Electrical Contractors Association of Maharashtra informed that Mr. Kamlesh Shah is no longer associated with the association. He was requested to inform the revised nominations through email.	Letter sent to Electrical Contractors Association of Maharashtra for updated Nominations. Nomination awaited
iii.	Updated Nominations from CPWD	Both of the members from CPWD have superannuated. It was decided to seek fresh nominations from CPWD by writing letter to DG, CPWD.	Letter sent to CPWD for updated Nominations. Nomination awaited
iv.	Co-option of Rail Coach Factory	it was decided to coopt Rail Coach Factory in the committee. Request to be sent to Rail Coach Factory for cooption in the committee. Mr. Jagat Killawala from All India Plastics Manufacturers Association to send the relevant contact details	Co-option letter sent to Rail Coach Factory.as per the contact details provide by Mr. Jagat Killawala Nominations Awaited
v.	Co-option from Academia	In order to maintain balanced committee composition, the members were requested to suggest and inform BIS experts from academia who are interested in the subject matter and willing to contribute in the standardization work related to the committee	No suggestion for Interested Members from Academia received from the committee.
vi.	Updated Nomination from Manufacturers Association for Information Technology(MAIT)	Fresh Nominations to be sought from Manufacturers Association for Information Technology as both of the members are no longer associated with the organization.	Letter sent for updated Nominations. DG MAIT has informed that MAIT have not received any current nominations from their members for this Committee at this time.

9.4: Co-option Request in ETD 14 Sectional Committee:

The following request for co-option has been received:

Sl. No	Name	Organization	Remarks
1	Shri S. Dharmaselvan	Individual Capacity	Graduate and Post Graduate from NIT Trichy in 1991. Working as Joint Director M/o MSME, in the filed of Electrical Testing since 1999. Presently NABL Technical Assessor.
2	Devendra Tandel	Government Engineering College Valsad	• working as an Assistant Professor in Electrical Engineering Department, Government Engineering College Valsad since 1/9/2016, and before that working for private institute for 7 years,

			• having total of 14 Years experience in teaching and learning, • taken 2 week industrial training at Greatwhite Global, Pvt. Ltd and have take topic for IS requires for switches, CBs, MCBs, Cables etc. • also the member of TPQA at SVNIT, Surat.

The CVs of the applicants are attached at **ANNEXURE-15**

The committee may consider

9.4 Performance evaluation of members of ETD 14 sectional Committee.

ITEM 10 RESEARCH & DEVELOPMENT PROJECTS FOR FORMULATION AND REVIEW OF STANDARDS FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS.

The following R and D Projects were under consideration by ETD 14 working group:

i. Revision of IS 9537 Series 'Specification for Conduits for Electrical Installations.

In this regard, please refer to **ANNEXURE 16**

The committee may discuss.

ITEM 11 DATE AND PLACE FOR THE NEXT MEETING

The committee may kindly decide.

ITEM 12 ANY OTHER BUSINESS

13.1 Query of Havells on applicability IS 14772:2020 on Pop-up type retractable socket outlet for furniture. Details enclosed at **ANNEXURE-17**

ANNEXURE 1

Minutes

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
ETD 14 WG-02 -Stakeholder Consultation on IS 11037 Electronic Type Fan Regulator	**3rd**	**Monday**	**2nd Dec 2024**	**11:30am**	**Webex**

Member Present:

SI. No	Organization	Name
1.	Member Secretary, ETD 14	Smt. Ankita Tripathi
2.	Havells India Limited	Shri. Nitesh Kumar **(Convenor)**
3.	Bajaj Electricals	Shri. Socratees Chandrasekaran
4.	Bajaj Electricals	Shri. Abhinandan De
5.	Panasonic India Pvt. Ltd.	Shri. Rohit Pandey
6.	Western India Electrical Accessories Manufacturers Association, Mumbai	Shri. Kapil K. Ajmera
7.	Western India Electrical Accessories Manufacturers Association, Mumbai	Shri. Mithesh Gosrani
8.	Electrical Research and Development Association, Vadodara	Shri. Rakesh Patel

1. Ms. Ankita Tripathi welcomed all the members present in the meeting and briefed the members on the present progress of work undertaken by the working group on inclusion of the step voltage criteria in IS 11037.
2. The convenor, Mr. Nitesh Kumar informed the members that Havells has worked on the issue and based on discussion in the previous working group meetings, the following table was prepared:

Table: Step Voltage Acceptance Criteria

S.no	Fan Regulator Type	Step Configuration	Acceptable Voltage Range	
			Fan Regulator (Induction motor)	
			120W	70W
1	4 Step Fan Regulator	Ist		
		IInd		
		IIIrd		
		IVth		
2	5 Step Fan Regulator- Low Speed	Ist		
		IInd		
		IIIrd		
		IVth		
		Vth		
3	5 Step Fan Regulator- Hi-Speed	Ist		
		IInd		
		IIIrd		

		IVth		
		Vth		
4	8-Step Fan Regulator	Ist		
		IInd		
		IIIrd		
		IVth		
		Vth		
		VIth		
		VIIth		
		VIIIth		

3. Mr. Nitesh Kumar, further Informed that in order to introduce the step voltage acceptance criteria, data would be required from the Fan Manufactures with respect to voltage data against each step for the commonly available fan regulator (i.e. 4 Step Fan Regulator, 5 Step Fan Regulator, 8 Step Fan Regulator) by varying below-listed factors: -
   i. Sweep size (600mm, 900 mm, 1200mm, and 1400 mm)
   ii. Poles (12,14,16 and 18) in the above format.

   The data once received from major fan manufacturers could be analyzed in order to declare a output voltage range against each step provided by the regulator to keep uniform speed variation of the fan motor against each step. Havells has already done this exercise and the data is required from other manufacturers.
4. The Member secretary informed that the data as per the above table was requested from the Fan Manufacturers in this working group i.e. Bajaj Electricals Limited, Crompton Greaves, Panasonic Life Solutions India Private Limited along with other fan manufacturers associated with the ETD 32-Electrical appliance sectional committee i.e. Atomberg, Orient, Versuni and from the Indian Fan Manufacturers association in June 2024 via ETD email and subsequently further reminders were sent. However, the data has not been received from any of the fan Manufacturers.
5. The following was discussed/decided:
   i. Mr. Abhinandan De from Bajaj Electrical informed that the data was not provided since as there is lot of variability in configuration of the fan and consolidation of the same in terms of step voltage with respect to the number of poles (4 pole, 8 pole, 12 pole, 14 pole or 16 pole), sweep sizes(900, 1050, 1200, 1 400 and 1 500 mm), wattage is a difficult task due to which it was not easy to collect the data.
   ii. Mr. Rohit Pandey from Panasonic India Pvt. Ltd. said the fans have specific wattage of motor load. Fans with variety of wattages are available. A regulator with defined output voltage against each step for a 120 watt fan may not provide the desired speed regulation against Fan with a different wattage. Fan wattages cannot be standardized/controlled as it will lead to design restriction. Hence it is difficult to do this exercise. The only possibility which can be thought of is providing possible wattages of fan motors by fan manufacturers considering the design limitation and energy efficiency. This can be utilized by the regulator manufacturers and regulators to control varying fan wattages can be manufactured. The consumer can then purchase regulators according to the wattage of fan in order to achieve uniform speed variation in each step.
   iii. It was decided to add Indian Fan Manufactures association in the working group to take up the issue with other Fan Manufacturers.
   iv. Mr. Kapil Ajmera from WIEMA stated that defining output voltage against each step of Fan regulator for uniform speed variation of fan is not possible since there is large variation in the load. i.e. the fan, due to variation in wattages, blade size, no. of blades etc. which the same regulator has

to operate. Further, this exercise can also not be done on BLDC fans since IS 11037 is applicable for Induction Motor Fan Regulators only.

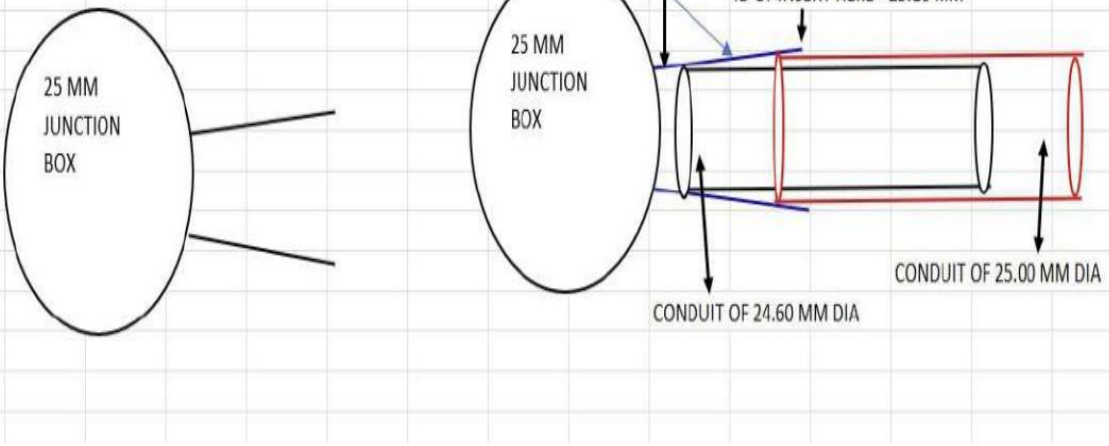
v. Mr. Rakesh Patel from ERDA stated that IS 374 for Ceiling Fans provides the requirements for permissible speed variation against each step, if the regulator is being supplied by the Fan Manufacturer. However, If the regulator is from a different manufacturer, it is difficult to maintain uniform speed variation in each step by the regulator due to variety of Fans available with different wattages considering the energy efficiency factor.

6. **It was decided to circulate the email as mentioned in Sl. No.4 above to the fan Manufacturer again and get inputs on issues/possibility of the exercise to enable the working group to take further decision in the matter. Fan Manufacturers to submit the above inputs within a week so that the consolidated inputs along with the recoded discussion of today's meeting can be put to the ETD 14 sectional committee in its upcoming meeting on 18.12.2024.**
7. **The above inputs may also be sought from IFMA. Mr. Nitesh Kumar to coordinate from IFMA to submit the inputs within a week.**

ANNEXURE 2

Comments on Doc No ETD 14 (22795): Specification for Fittings for Rigid Non Metallic (Third Revision)

SNo.	Basic Details	Clause/Subclause No.& Attachment	Paragraph No./Figure No./Table No.	Type of Comment	Comments/Suggestions along with Justification for the Proposed Change	Proposed Change/Modified Wordings	Remarks
1	Name: Vikas Hirawat Organisation: N/A Email: info@vippipe.com Mobile: 9448124414 Comment ID #: ETD_2024-11-078111	7.2	Table 1 to Table 17	Technical	**Point # 1** The Inner diameter of the fitting has a tolerance **on Plus side** whereas the **OD of the conduit** has tolerance on the **Minus Side**. The Fittings will be loose on the conduit. For Example - For a Conduit of 25 mm dia, Max OD is 25 mm and with the tolerance of 0.4 mm, Conduit can be produced from 24.60 mm to 25.00 mm. How will a conduit fit a fitting with ID of 25.10 mm to 25.40mm with the tolerance on the plus side ? **Point # 2** The ID of the fitting is straight and standard from the mouth of the fitting to the inner ridge of the coupler for example. In the case of a 25 mm coupler, the ID can be 25.10 mm to 25.40 mm from the mouth / entry / start of the collor. This is wrong. How will a conduit of say 25 mm dia be tight enough to the fitting throught out the depth of tyhe coupler / fitting ?	Suggestion for Point # 1 & 2 the tolerance should be on the Minus side to such an extent the a conduit can be locked into the fitting. It should ideally be as below in case of a 25 mm conduit and should apply similarly to all sizes. The Dimension of the fitting should be tapered in such a way that for example in a 25 mm conduit fitting, the dimension at the entry / mouth of the fitting should be 25.10 mm and on the inside should be 25.30 mm (Tapering down from the moutn to deep inside). This way, a conduit with dimensions from 24.60 mm to 25.00 mm will be able to be locked at some point or the other inside the fitting. The same issues arises with dimensions of a Socketed End conduit where again, the tolerance is on the Plus Side for the Socketed End.	


TAPERED INSERT OF THE FITTING FROM MOUTH TO INNER END
ID OF INSERT HERE - 24.30 MM
ID OF INSERT HERE - 25.10 MM
25 MM
JUNCTION
BOX
25 MM
JUNCTION
BOX
CONDUIT OF 25.00 MM DIA
CONDUIT OF 24.60 MM DIA

2	Name: Vikas Hirawat Organisation: N/A Email: info@vippipe.com Mobile: 9448124414 Comment ID #: ETD_2024-11-076994	7 N/A	Sub Clause 7.2	Technical	The inner diameter of the socket of all the fittings mentioned (Bends, Couplers, Junction Boxes falling under IS:3419) and also for the Socket End of the conduits falling under IS: 9537 WILL BE LOOSE when the relevant conduits are inserted into them for the reasons mentioned as - All the fittings / Socket end have a tolerance on the PLUS side for the Inner Diameter whereas, the Tolerance on the OD for conduits is on the MINUS side. The ID mentioned for the fittings / Socket End is SAME / STRAIGHT from the mouth of the socket till the inner depth - This design will never hold the conduit firmly. The dimensions should taper down from the mouth of the socket till the inner end as suggested under the proposed changes coloum by me. **For Example,** the OD of a 25 mm conduit is max 25 mm with a toleranace of -0.4 mm wherein conduit diameter can range from 24.60 mm to 25.00 mm as per sub clause 7.1, Table 1. The ID of the socket of the fitting / Socket end of the conduit is mentioned as 25.10 mm with a tolerance of +0.3 mm giving a range of 25.1 to 25.4 mm as per sub clause 7.1.1. Table 2 . This will results in a plain conduit of dia 24.60 to 25.00 mm going very loose into the socket of the fitting or Socket end of a conduit having ID of 25.1 to 25.4 mm	**1.** The ID of the socket end should be 25.10 mm at the mouth of the conduit and taper down to 24.50 mm towards the inner end of the socket length thereby giving a taper of 0.60 mm so that a plain conduit of 24.60 mm to 25.00 mm dia locks into the socket end of the conduit at some point, tightly, when inserted. **2.** Same to be done accordingly on all Inner diameters of the Socket of the fittings . Socket End of the conduit, keeping the taper in mind according to the tolerance allowed on the OD of different diameters of the conduits. **3.** Likewise, the OD of the socket end of the conduit needs to be calculated and brought down. **4.** The dimensions of the Plug Gauge as well as the Ring Gauge / Go No Go Gauges to check the Socket End of the conduit also needs to be looked into.	

		7	7.1	Technical	The Dimensions of conduit under IS 9537 Part 3, the average wall thickness of a 25 mm Medium conduit after taking into tolerance allowed is 1.70 mm and for a 25 mm HMS conduit, the average wall thickness is 2.1 mm. Thus the difference is 0.4 mm between 25 mm MMS and 25 mm HMS. Under Impact Test - Clause 9.4.2 - Part 1, 1980, the Mass of the Hammer is 2 Kgs for both MMS and HMS conduit with a Fall height of 100 mm and 300 mm respectively for MMS and HMS conduits. The Fall height specified at 300 mm for a HMS conduit is too much when compared to a MMS conduit where the difference in wall thickness is 0.4 mm. This results in heavy falliures of samples in Impact test. A data / survey on how many faliures occur for 20 and 25 mm HMS conduits can be collected from your various BIS labs.	We propose that the fall height of 25 mm HMS for example, be reduced to 125 mm from 300 mm. The basis of arriving at 125 mm is - The average wall thickness of a 25 mm MMS conduit being 1.7 mm and 25 mm HMS is 2.1 mm. Thereby the difference is about 24% (1.7 mm + 24% = 2.10 mm) and the same percentage should be calculated for the Fall Height, that is 100 mm + 24% = 124 or 125 mm) Likewise, the above calculations can be worked out for all sizes and classes. You can reach me at 94481 24414 / over a Zoom call if there is a confusion in understanding the above, I'll be happy to explain with live example of conduit and fitting.	

ANNEXURE-3

Comments on Doc No ETD 14 (24538): Socket-Outlets Incorporating USB Power Supply- Specifications

SNo.	Basic Details	Clause/ Subclause No.& Attachment	Paragraph No./Figure No./Table No.	Type of Comment	Comments/Suggestions along with Justification for the Proposed Change	Proposed Change/Modified Wordings	Remarks
1	Name: Shri Nitesh Kumar	8.2	Note Section	Editorial	Gap between 5V/2.1A and DC symbol is not uniform due which Dc symbol overlap with the text	Please insert some gap between text and dc symbol.	
		17.101	b)	Technical	Before MΩ the numerical value is missing	Please write it as below: 5 MΩ between SELV circuits	
		17.102	a)	Technical	A high voltage of 3750 V between SELV circuits and other circuit(s) having a higher voltage than SELV is a higher value it should be reduced to 3000V considering other safety standards. (Refer Table 5B of IS 13252-1)	Replace the test voltage of 3750V by 3000V	
		101.2.3	Table 104	Technical	The Test voltage given it the text is minimum value it has to alteast 2kV	Repalce 1kV by 2kV in table 104	
		103.2.2.2	2	Editorial	There is unnecessary Gap in between the word creep age.	Please remove gap between creep age and write it as Creepage	

ANNEXURE - 4

Programme of work of ETD 14

SI. No.	IS No.	Title	No. of Amendments	Degree of Equivalence
1.	IS 10276 (Part 1) : 2024 60238: 2016	Edison Screw Lampholders (first revision)	-	Identical under dual numbering
2.	IS 11037 : 2019 NULL	Electronic Type Fan Regulators - Specification (First Revision)	-	Indigenous
3.	IS 1258 : 2024 61184: 2017	Bayonet lampholders (Fifth Revision)	-	Identical under dual numbering
4.	IS 1258 : 2005	Bayonet lamp holders (Fourth Revision)	4	Identical under dual numbering
5.	IS 1293 : 2019 IEC 60884-1	Plugs and Socket-Outlets for Household and Similar Purposes of Rated Voltage up to and Including 250 V and Rated Current up to and Including 16 A - Specification (Fourth Revision)	2	Modified/Technically Equivalent

6.	IS 14763 : 2022 60423: 2007	Conduit Systems For Cable Management Outside Diameters Of Conduits For Electrical Installations And Threads For Conduits And Fittings	-	Identical under single numbering
7.	IS 14768 (Part 1) : 2000 IEC 61035--1	Conduit fittings for electrical installations - Specification: Part 1 general requirements	1	Modified/Technically Equivalent
8.	IS 14768 (Part 2) : 2003 IEC 60035-2-1	Conduit fittings for electrical installations - Specification: Part 2 metal conduit fittings	1	Modified/Technically Equivalent
9.	IS 14772 : 2020	Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations — General Requirements (First Revision)	-	Modified/Technically Equivalent
10.	IS 14927 (Part 1) : 2023 61084-1	Cable Trunking Systems and Cable Ducting Systems for Electrical Installations Part 1: General Requirements first revision	-	Identical under single numbering
11.	IS 14927 (Part 2/Sec 1) : 2023 61084-2-1:2017	Cable trunking systems and cable ducting Systems for electrical installations Part 2-1: particular requirements cable trunking systems and cable Ducting systems intended for mounting on walls and ceilings first revision	-	Identical under single numbering
12.	IS 14927 (Part 2/Sec 1) : 2001 IEC 61084-2-1	Cable Trunking and Ducting Systems for Electrical Installations : Part 2 Cable Trunking and Ducting Systems Intended for Mounting on Walls or Ceiling	-	Identical under single numbering
13.	IS 15368 : 2003	Cable reels for household and similar purposes	-	Modified/Technically Equivalent
14.	IS 15787 : 2008	Switch - Socket - Outlets (Non - Interlock Type)	-	Modified/Technically Equivalent
15.	IS 16205 (Part 1) : 2017	Conduit systems for cable management: Part 1 general requirements	1	Modified/Technically Equivalent
16.	IS 16205 (Part 21) : 2017	Conduit Systems for Cable Management Part 21 Particular Requirements Rigid Conduit Systems	-	Modified/Technically Equivalent
17.	IS 16205 (Part 22) : 2017	Conduit Systems for Cable Management Part 22 Particular Requirements - Pilable Conduit Systems	-	Modified/Technically Equivalent
18.	IS 16205 (Part 23) : 2017	Conduit Systems for Cable Managemnet Part 23 Particular Requirements Flexible Conduit Systems	-	Modified/Technically Equivalent

19.	IS 16205 (Part 24) : 2017	Conduit Systems for Cable Management part 24 Particular Requirements Conduit Systems Buried Under Ground	-	Modified/Technically Equivalent
20.	IS 16783 : 2018 IEC 61914 : 2015	Cable Cleats for Electrical Installations	-	Modified/Technically Equivalent
21.	IS 17039 : 2018 IEC 61316 : 1999	Industrial Cable Reels	-	Identical under dual numbering
22.	IS 17345 (Part 1) : 2020	Power Track System Part 1 General Requirement	-	Modified/Technically Equivalent
23.	IS 17345 (Part 21) : 2020	Power Track System Part 21 Particular Requirements for Power Track Systems Intended for Wall and Ceiling Mounting	-	Modified/Technically Equivalent
24.	IS 18830 : 2024	Cord Extension Sets - Specifications	-	Modified/Technically Equivalent
25.	IS 3323 : 1980	Specification for bi-pin landholders for tubular fluorescent lamps (First Revision)	1	Modified/Technically Equivalent
26.	IS 3324 : 1982	Specification for holders for starters for tubular fluorescent lamps (First Revision)	-	Modified/Technically Equivalent
27.	IS 3419 : 1988	Specification for Fittings for Rigid Non - Metallic Conduits (Second Revision)	-	Modified/Technically Equivalent
28.	IS 3480 : 2024	Flexible Steel Conduits For Electrical Wiring-Specification (First Revision)	-	Modified/Technically Equivalent
29.	IS 371 : 1999	Ceiling roses - Specification (Third Revision)	4	Indigenous
31.	IS 3837 : 1976	Specification for accessories for rigid steel conduits for electrical wiring (First Revision)	1	Modified/Technically Equivalent
32.	IS 3854 : 2023	Switches for Domestic and Similar Purposes - Specification (Third Revision)	-	Indigenous
33.	IS 4160 : 2005 IEC 60884-2-6	Interlocking switch socket outlets - Specification (First Revision)	-	Modified/Technically Equivalent
34.	IS 4649 : 1968	Specification for adaptors for flexible steel conduits	-	Indigenous
35.	IS/IEC 60309-1 : 2021 60309-1:2021	Plugs fixed or portable socket-outlets and appliance inlets for industrial purposes Part 1: General requirements Second Revision	-	Identical under single numbering
36.	IS/IEC 60309-2 : 2021 60309-2	Plugs fixed or portable socket-outlets and appliance inlets for industrial purposes Part 2: Dimensional compatibility	-	Identical under single numbering

		requirements for pin and contact-tube accessories Second Revision		
37.	IS/IEC 60320-1 : 2021 60320-1: 2021	Appliance couplers for household and similar general purposes Part 1: General requirements Second Revision	-	Identical under single numbering
38.	IS/IEC 60320-2-3) : 2018 60320-2-3: 2018	Appliance couplers for household and similar general purposes Part 2-3: Appliance couplers with a degree of protection higher than IPX0 Second Revision	-	Identical under single numbering
39.	IS/IEC 60669-2-2 : 2006 IEC 60669-2-2 : 2006	Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 2 Electromagnetic remote-control switches (RCS)	-	Identical under single numbering
40.	IS/IEC 60669-2- 1 : 2008	Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 1 Electronic Switches	-	Identical under single numbering
41.	IS/IEC 60669-2- 1) : 2021 60669-2-1: 2021	Switches for household and Similar fixed electrical installations Part 2-1: particular requirements electronic control devices	-	Identical under single numbering
42.	IS/IEC 60884-2- 5 : 1995 IEC 60884-2-5 : 1995	Plugs and Socket-Outlets for Household and Similar Purposes Part 2 Particular Requirements DSection 5 Adaptors	-	Identical under dual numbering
43.	IS/IEC 60998-1 : 2002 IEC 60998-1 : 2002	Connecting Devices for Low-Voltage Circuits for Household and Similar Purposes Part 1 General Requirements	-	Identical under single numbering
44.	IS/IEC 61058-1-1) : 2016 61058-1-1: 2016	Switches For Appliances Part 1 General Requirements Section 1 Particular Requirements For Mechanical Switches	-	Identical under single numbering
45.	IS/IEC 61058-1-2) : 2016 61058-1-2: 2016	Switches For Appliances Part 1 General Requirements Section 2 Particular Requirements For Electronics Switches	-	Identical under single numbering
46.	IS/IEC 61058-1 : 2016 61058-1: 2016	Switches for appliances: Part 1 general requirements First revision	-	Identical under single numbering
47.	IS/IEC 61537 : 2006 IEC 61537 : 2006	Cable Management - Cable Tray System and Cable Ladder System	-	Identical under dual numbering

ANNEXURE -5
COMMENTS RECEIVED FROM MANAK MANTHAN

IS 3854:2023: Switches for Domestic and Similar Purposes - Specification (Third Revision

SNo.	Basic Details	Clause/ Subclause No.& Attachment	Paragraph No./Figure No./Table No.	Type of Comment	Comments/Suggestions along with Justification for the Proposed Change	Proposed Change/Modified Wordings	Remarks
1		**5.3**		**Technical**	Para 4 of Cl 5.3 states that "For switches with a rated current up to and including 16 A the tests of 19.1, 19.2 and 19.3 shall be carried out" . Above statement is in contradictory with Cl 8.1 a , where manufacturer opt only for the manufacturing of Ampere	Categorization of Switches on the basis of -Switches for A, AX and self Ballasted loads and their respective test requirements needs to be applicable**.**	
2		**20.5**		**Technical**	Cl. 20.5 Covers, Cover Plates or Actuating Members – Accessibility to Live Parts Above Clause states that, requirements of testing on the covers, covers plates. We have received the query from the firm representatives ,that they manufacture only switches, then Tests on Covers, Cover Plates shall be exempted for the manufacturer of the switches.	Tests on Cover, Cover Plates may be exempted for the manufacturer of the switches	

ANNEXURE – 6

6.1 STATUS OF PRE-2000 STANDARDS:

Pre-2000 carried over:

S. NO	IS	Specification	Status
1	IS 10276(Part 1):1982	Edison screw Lamp holders: Req and Tests	Revised standard published as IS 10276(Part 1):2014
2	IS 10276 (Part 2) : 1982	Specification for edison screw lampholders: Part 2 standard data sheets for lampholders and gauges	Revised standard published as IS 10276(Part 1):2014
3	IS 3419 : 1988	Specification for fittings for rigid non - Metallic (Second Revision)	Revised version in WC
4	IS 3480 : 1966	Specification for flexible steel conduits for electrical wiring	Revised standard published as IS 3480:2024
5	IS/IEC 60884-2- 5) : 1995	Plugs and Socket-Outlets for Household and Similar Purposes Part 2 Particular Requirements D Section 5 Adaptors	Under Final stage of printing
6	IS 3323 : 1980	Specification for bi-pin landholders for tubular fluorescent lamps (First Revision)	Archived
7	IS 3324 : 1982	Specification for holders for starters for tubular fluorescent lamps (First Revision)	Archived
8	IS 371 : 1999	Ceiling roses - Specification (Third Revision)	Please refer Annexure- 7
9	IS 4649 : 1968	Specification for adaptors for flexible steel conduits	ARP has been allocated.
10	3837:1976	Specifications for accessories for rigid steel conduits for electrical wiring	ARP has been allocated.

Pre-2000 Current:

1	IS 9537 (Part 1) : 1980	Specification for conduits for electrical installations: Part 1 general requirements	Please see annexure 16
2	IS 9537 (Part 2) : 1981	Specification for conduits for electrical installations: Part 2 rigid steel conduits	Please see annexure 16
3	IS 9537 (Part 3) : 1983	Specification for conduits for electrical installations: Part 3 rigid plain conduits of insulating meterials	Please see annexure 16
4	IS 9537 (Part 4) : 1983	Specification for conduits for electrical installations: Part 4 pliable self - Recovering conduits of insulating materials	Please see annexure 16

ANNEXURE-8

6.2 REVIEW/REAFFIRMATION:

S. NO	IS No.	Title	Degree of Equivalence	Status
1	IS 9537 (Part 8) : 2003	Conduits for electrical installations - Specification: Part 8 rigid non - Threadable conduits of aluminium alloy	Modified/Technicall y Equivalent	Please see annexure 16
2	IS 1293 : 2019	Plugs and socket- outlets of rated Voltage up to and inculding 250 Volts and rated current up to and inculding 16 amperes-Specification(Fourth Revision)	Modified/Technicall y Equivalent	
3	IS 14768 (Part 1) : 2000	Conduit fittings for electrical installations - Specification: Part 1 general requirements	Modified/Technically Equivalent	
4	IS 11037 : 2019	Electronic Type Fan Regulators — Specification (First Revision)	Indigenous	
5	IS 371 : 1999	Ceiling roses - Specification (Third Revision)	Indigenous	
6	IS 9537 (Part 6) : 2000	Conduits for electrical installations - Specification: Part 6 pliable conduits of metal or composite materials	Modified/Technically Equivalent	Please see annexure 16
7	IS 9537 (Part 2) : 1981	Specification for conduits for electrical installations: Part 2 rigid steel conduits	Modified/Technically Equivalent	Please see annexure 16
8	IS 9537 (Part 4) : 1983	Specification for conduits for electrical installations: Part 4 pliable self - Recovering conduits of insulating materials	Modified/Technically Equivalent	Please see annexure 16
9	IS 15368 : 2003	Cable reels for household and similar purposes	Modified/Technically Equivalent	May be reaffirmed. IEC Same only 2 Amendments are there
10	IS 4649 : 1968	Specification for adaptors for flexible steel conduits	Modified/Technically Equivalent	

11	IS 16205 (Part 1) : 2017	Conduit systems for cable management: Part 1 general requirements	Modified/Technically Equivalent	Based on IEC 61386-1:2008. IEC Not revised. Only One amendment has been issued.
12	IS 16205 (Part 21) : 2017	Conduit Systems for Cable Management Part 21 Particular Requirements Rigid Conduit Systems	Modified/Technically Equivalent	Based on IEC 61386-21 : 2002. IEC revised to IEC 61386-21:2021
13	IS 16205 (Part 22) : 2017	Conduit Systems for Cable Management Part 22 Particular Requirements - Pilable Conduit Systems	Modified/Technically Equivalent	Based on IEC 61386-22. IEC 61386-22 revised to IEC 61386-22:2021
14	IS 16205 (Part 23) : 2017	Conduit Systems for Cable Managemnet Part 23 Particular Requirements Flexible Conduit Systems	Modified/Technically Equivalent	Based on IEC 61386-23. IEC 61386-23 revised to IEC 61386-23:2021
15	IS 16205 (Part 24) : 2017	Conduit Systems for Cable Management part 24 Particular Requirements Conduit Systems Buried Under Ground	Modified/Technically Equivalent	Based on IEC 61386-24. IEC 61386-24 revised to IEC 61386-24:2021

ANNEXURE - 10
IEC TC 23A, 23B Programme of work

TC 23A Publications		
Sl. No.	**Document Number**	**Title**
1.	IEC 60423:2007	Conduit systems for cable management - Outside diameters of conduits for electrical installations and threads for conduits and fittings
2.	IEC 60981:2019 RLV	Extra heavy-duty electrical rigid steel conduits
3.	IEC 60981:2019	Extra heavy-duty electrical rigid steel conduits
4.	IEC 61084-1:2017+AMD1:2024 CSV	Cable trunking systems and cable ducting systems for electrical installations - Part 1: General requirements
5.	IEC 61084-1:2017	Cable trunking systems and cable ducting systems for electrical installations - Part 1: General requirements
6.	IEC 61084-1:2017/AMD1:2024	Amendment 1 - Cable trunking systems and cable ducting systems for electrical installations - Part 1: General requirements
7.	IEC 61084-2-1:2017+AMD1:2024 CSV	Cable trunking systems and cable ducting systems for electrical installations - Part 2-1: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings
8.	IEC 61084-2-1:2017	Cable trunking systems and cable ducting systems for electrical installations - Part 2-1: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings
9.	IEC 61084-2-1:2017/AMD1:2024	Amendment 1 - Cable trunking systems and cable ducting systems for electrical installations - Part 2-1: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings
10.	IEC 61084-2-2:2017+AMD1:2024 CSV	Cable trunking systems and cable ducting systems for electrical installations - Part 2-2: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor
11.	IEC 61084-2-2:2017	Cable trunking systems and cable ducting systems for electrical installations - Part 2-2: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor
12.	IEC 61084-2-2:2017/AMD1:2024	Amendment 1 - Cable trunking systems and cable ducting systems for electrical installations - Part 2-2: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor
13.	IEC 61084-2-3:2017+AMD1:2024 CSV	Cable trunking systems and cable ducting systems for electrical installations - Part 2-3: Particular requirements - Slotted cable trunking systems intended for installation in cabinets
14.	IEC 61084-2-3:2017	Cable trunking systems and cable ducting systems for electrical installations - Part 2-3: Particular requirements - Slotted cable trunking systems intended for installation in cabinets
15.	IEC 61084-2-3:2017/AMD1:2024	Amendment 1 - Cable trunking systems and cable ducting systems for electrical installations - Part 2-3: Particular requirements - Slotted cable trunking systems intended for installation in cabinets
16.	IEC 61084-2-4:2017+AMD1:2024 CSV	Cable trunking systems and cable ducting systems for electrical installations - Part 2-4: Particular requirements - Service poles and service posts

17.	IEC 61084-2-4:2017	Cable trunking systems and cable ducting systems for electrical installations - Part 2-4: Particular requirements - Service poles and service posts
18.	IEC 61084-2-4:2017/AMD1:2024	Amendment 1 - Cable trunking systems and cable ducting systems for electrical installations - Part 2-4: Particular requirements - Service poles and service posts
19.	IEC 61196-1-326:2022	Coaxial communication cables - Part 1-326: Mechanical test methods - Hanger test
20.	IEC 61196-12:2024	Coaxial communication cables - Part 12: Specification for spacer clamps for radiating cables
21.	IEC 61386-1:2008+AMD1:2017 CSV	Conduit systems for cable management - Part 1: General requirements
22.	IEC 61386-1:2008	Conduit systems for cable management - Part 1: General requirements
23.	IEC 61386-1:2008/AMD1:2017	Conduit systems for cable management - Part 1: General requirements
24.	IEC 61386-21:2021 RLV	Conduit systems for cable management - Part 21: Particular requirements - Rigid conduit systems
25.	IEC 61386-21:2021	Conduit systems for cable management - Part 21: Particular requirements - Rigid conduit systems
26.	IEC 61386-22:2021	Conduit systems for cable management - Part 22: Particular requirements - Pliable conduit systems
27.	IEC 61386-22:2021 RLV	Conduit Systems for cable management - Part 22: Particular requirements - Pliable conduit systems
28.	IEC 61386-23:2021	Conduit systems for cable management - Part 23: Particular requirements - Flexible conduit systems
29.	IEC 61386-23:2021 RLV	Conduit systems for cable management - Part 23: Particular requirements - Flexible conduit systems
30.	IEC 61386-24:2004	Conduit systems for cable management - Part 24: Particular requirements - Conduit systems buried underground
31.	IEC 61386-25:2011	Conduit systems for cable management - Part 25: Particular requirements - Conduit fixing devices
32.	IEC 61534-1:2011+AMD1:2014+AMD2:2020 CSV	Powertrack systems - Part 1: General requirements
33.	IEC 61534-1:2011+AMD1:2014 CSV	Powertrack systems - Part 1: General requirements
34.	IEC 61534-1:2011	Powertrack systems - Part 1: General requirements
35.	IEC 61534-1:2011/COR1:2013	Corrigendum 1 - Powertrack systems - Part 1: General requirements
36.	IEC 61534-1:2011/AMD1:2014	Amendment 1 - Powertrack systems - Part 1: General requirements
37.	IEC 61534-1:2011/AMD2:2020	Amendment 2 - Powertrack systems - Part 1: General requirements

38.	IEC 61534-21:2014+AMD1:2021 CSV	Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
39.	IEC 61534-21:2014	Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
40.	IEC 61534-21:2014/AMD1:2021	Amendment 1 - Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
41.	IEC 61534-22:2014+AMD1:2021 CSV	Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
42.	IEC 61534-22:2014	Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
43.	IEC 61534-22:2014/AMD1:2021	Amendment 1 - Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
44.	IEC 61537:2023	Cable management - Cable tray systems and cable ladder systems
45.	IEC 61914:2021	Cable cleats for electrical installations
46.	IEC 61914:2021 CMV	Cable cleats for electrical installations
47.	IEC 61950:2019	Cable management systems - Specifications for extra-heavy-duty electrical steel conduit fittings and accessories
48.	IEC 62275:2022	Cable management systems - Cable ties for electrical installations
49.	IEC 62275:2022 CMV	Cable management systems - Cable ties for electrical installations
50.	IEC 62444:2010	Cable glands for electrical installations
51.	IEC 62549:2011	Articulated systems and flexible systems for cable guiding
52.	IEC 62549:2011/ISH1:2015	Interpretation sheet 1 - Articulated systems and flexible systems for cable guiding
53.	IEC 63355:2022	Cable management systems - Test method for content of halogens

TC 23A Work Programme

Project Reference	Title	Document Reference	Current Stage	Next Stage	Fcst. Publ. Date
IEC 61196-1-326 ED2	Coaxial communication cables - Part 1-326: Test methods - Clamps test	23A/1054/CD	ACDV	TCDV	2026-02
IEC 63243 ED1	CDD Database - Cable tray systems and cable ladder systems	23A/1075A/NP	ACD	CD	2026-05

TC 23B Publications

Sl. No.	Document Number	Title

1.	IEC TR 60083:2015	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC
2.	IEC 60669-1:2017	Switches for household and similar fixed-electrical installations - Part 1: General requirements
3.	IEC 60669-1:2017 RLV	Switches for household and similar fixed-electrical installations - Part 1: General requirements
4.	IEC 60669-1:2017/COR1:2020	Corrigendum 1 - Switches for household and similar fixed-electrical installations - Part 1: General requirements
5.	IEC 60669-2-1:2021	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices
6.	IEC 60669-2-1:2021/COR1:2024	Corrigendum 1 - Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices
7.	IEC 60669-2-2:2024 EXV-RLV	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
8.	IEC 60669-2-2:2024	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
9.	IEC 60669-2-2:2024 EXV	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
10.	IEC 60669-2-2:2024 RLV	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
11.	IEC 60669-2-3:2024	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)
12.	IEC 60669-2-3:2024 RLV	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)
13.	IEC 60669-2-3:2024 EXV-RLV	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)
14.	IEC 60669-2-3:2024 EXV	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)
15.	IEC 60669-2-4:2024	Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches
16.	IEC 60669-2-4:2024 EXV	Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches
17.	IEC 60669-2-6:2012	Switches for household and similar fixed electrical installations - Part 2-6: Particular requirements - Fireman's switches for exterior and interior signs and luminaires
18.	IEC 60670-1:2015	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements
19.	IEC 60670-21:2004+AMD1:2016 CSV	Boxes and enclosures for electrical accessories for household andsimilar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspensionmeans
20.	IEC 60670-21:2004	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means
21.	IEC 60670-21:2004/AMD1:2016	Amendment 1 - Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means

22.	IEC 60670-22:2003+AMD1:2015 CSV	Boxes and enclosures for electrical accessories for household andsimilar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures
23.	IEC 60670-22:2003	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures
24.	IEC 60670-22:2003/AMD1:2015	Amendment 1 - Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures
25.	IEC 60670-23:2006+AMD1:2016 CSV	Boxes and enclosures for electrical accessories for household andsimilar fixed electrical installations - Part 23: Particular requirements for floor boxes and enclosures
26.	IEC 60670-23:2006	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 23: Particular requirements for floor boxes and enclosures
27.	IEC 60670-23:2006/AMD1:2016	Amendment 1 - Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 23: Particular requirements for floor boxes and enclosures
28.	IEC 60670-24:2011	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment
29.	IEC 60884-1:2022	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements
30.	IEC 60884-1:2022/COR1:2023	Corrigendum 1 - Plugs and socket-outlets for household and similar purposes - Part 1: General requirements
31.	IEC 60884-2-1:2006	Plugs and socket-outlets for household and similar purposes - Part 2-1: Particular requirements for fused plugs
32.	IEC 60884-2-2:2006	Plugs and socket-outlets for household and similar purposes - Part 2-2: Particular requirements for socket-outlets for appliances
33.	IEC 60884-2-3:2006	Plugs and socket-outlets for household and similar purposes - Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations
34.	IEC 60884-2-4:2007	Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV
35.	IEC 60884-2-5:2017	Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors
36.	IEC 60884-2-6:1997	Plugs and socket-outlets for household and similar purposes - Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations
37.	IEC 60884-2-7:2011+AMD1:2013 CSV	Plugs and socket-outlets for household and similar purposes - Part2-7: Particular requirements for cord extension sets
38.	IEC 60884-2-7:2011	Plugs and socket-outlets for household and similar purposes - Part 2-7: Particular requirements for cord extension sets
39.	IEC 60884-2-7:2011/AMD1:2013	Amendment 1 - Plugs and socket-outlets for household and similar purposes - Part 2-7: Particular requirements for cord extension sets
40.	IEC 60884-2-7:2011/AMD1:2013/COR1:2014	Corrigendum 1 - Amendment 1 - Plugs and socket-outlets for household and similar purposes - Part 2-7: Particular requirements for cord extension sets
41.	IEC 60884-3-1:2021	Plugs and socket-outlets for household and similar purposes - Part 3-1: Particular requirements for socket-outlets incorporating USB power supply

42.	IEC 60884-3-1:2021/COR1:2024	Corrigendum 1 - Plugs and socket-outlets for household and similar purposes - Part 3-1: Particular requirements for socket-outlets incorporating USB power supply
43.	IEC 60906-1:2009	IEC system of plugs and socket-outlets for household and similar purposes - Part 1: Plugs and socket-outlets 16 A 250 V a.c.
44.	IEC 60906-2:2011	IEC system of plugs and socket-outlets for household and similar purposes - Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.
45.	IEC 60906-3:1994	IEC System of plugs and socket-outlets for household and similar purposes - Part 3: SELV plugs and socket-outlets, 16 A 6V, 12 V, 24 V, 48 V, a.c. and d.c.
46.	IEC 61242:1995	Electrical accessories - Cable reels for household and similar purposes
47.	IEC 61242:1995/AMD1:2008	Amendment 1 - Electrical accessories - Cable reels for household and similar purposes
48.	IEC 61242:1995/AMD2:2015	Amendment 2 - Electrical accessories - Cable reels for household and similar purposes
49.	IEC 61995-1:2005+AMD1:2016 CSV	Devices for the connection of luminaires for household and similarpurposes - Part 1: General requirements
50.	IEC 61995-1:2005	Devices for the connection of luminaires for household and similar purposes - Part 1: General requirements
51.	IEC 61995-1:2005/AMD1:2016	Amendment 1 - Devices for the connection of luminaires for household and similar purposes - Part 1: General requirements
52.	IEC 61995-2:2009+AMD1:2016 CSV	Devices for the connection of luminaires for household and similarpurposes - Part 2: Standard sheets for DCL
53.	IEC 61995-2:2009	Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL
54.	IEC 61995-2:2009/AMD1:2016	Amendment 1 - Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL
55.	IEC 62094-1:2002	Indicator light units for household and similar fixed-electrical installations - Part 1: General requirements
56.	IEC TS 62735-1:2015	Direct current (DC) plugs and socket-outlets for information and communication technology (ICT) equipment installed in data centres and telecom central offices - Part 1: Plug and socket-outlet system for 2,6 kW
57.	IEC TS 62735-2:2016	Direct current (DC) plugs and socket-outlets for information and communication technology (ICT) equipment installed in data centres and telecom central offices - Part 2: Plug and socket-outlet system for 5,2 kW
58.	IEC TR 63036:2016	Electrical interface specification for phase-cut dimmer in phase-cut dimmed lighting systems
59.	IEC 63180:2020	Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection

TC 23B Work Programme

Sl. No.	Project Reference	Title	Document Reference	Current Stage	Next Stage	Fcst. Publ. Date
1.	IEC 60669-2-1 ED6	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices	23B/1513/CD	ACD	3CD	2026-02
2.	IEC 60670-1 ED3	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements	23B/1533/FDIS	BPUB	PPUB	2024-12
3.	IEC 60670-21 ED2	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means	23B/1534/FDIS	BPUB	PPUB	2024-12
4.	IEC 60670-22 ED2	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures	23B/1535/FDIS	BPUB	PPUB	2024-12
5.	IEC 60670-24 ED3	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment	23B/1536/FDIS	BPUB	PPUB	2024-12
6.	IEC 60884-1/AMD1 ED4	Amendment 1 - Plugs and socket-outlets for household and similar purposes - Part 1: General requirements	23B/1549/RR	TCDV	CCDV	2026-02
7.	IEC 60884-2-1 ED3	Plugs and socket-outlets for household and similar purposes - Part 2-1: Particular requirements for fused plugs	23B/1545/FDIS	CFDIS	PRVD	2025-02
8.	IEC 60884-2-2 ED3	Plugs and socket-outlets for household and similar purposes - Part 2-2: Particular requirements for socket-outlets for appliances	23B/1544/FDIS	CFDIS	PRVD	2025-02
9.	IEC 60884-2-3 ED3	Plugs and socket-outlets for household and similar purposes - Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations	23B/1546/FDIS	CFDIS	PRVD	2025-02
10.	IEC 60884-2-4 ED4	Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV	23B/1550/RR	ACD	CD	2026-02
11.	IEC 60884-2-5 ED3	Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors	23B/1506/CD	ACDV	TCDV	2026-02
12.	IEC 60884-2-6 ED2	Plugs and socket-outlets for household and similar purposes - Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations	23B/1547/FDIS	CFDIS	PRVD	2025-02

13.	IEC 60884-2-7 ED2	Plugs and socket-outlets for household and similar purposes - Part 2-7: Particular requirements for cord extension sets	23B/1548/ FDIS	CFDIS	PRVD	2025-02
14.	IEC 60884-2-8 ED1	Plugs and socket-outlets for household and similar purposes - Particular requirements for socket-outlets for furniture	23B/1490/ CDV	RFDIS	CFDIS	2025-04
15.	IEC 60884-3-2 ED1	Plugs and socket-outlets for household and similar purposes - Particular requirements for accessories incorporating electronic components to perform additional functions	23B/1503/ CDV	AFDIS	DECFDIS	2025-07
16.	IEC 60884-4 ED1	ENERGY PLUG AND ENERGY SOCKET OUTLETS	23B/1349/ NP	ACD	CD	2025-12
17.	IEC 60906-2/AMD1 ED3	Amendment 1 - IEC system of plugs and socket-outlets for household and similar purposes - Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.	23B/1497/ CD	ACDV	TCDV	2026-03
18.	IEC 61995-1 ED2	Devices for the connection of luminaires for household and similar purposes - Part 1: General requirements	23B/1477/ CDV	AFDIS	DECFDIS	2025-06
19.	IEC 61995-2 ED2	Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL	23B/1478/ CDV	AFDIS	DECFDIS	2025-06
20.	IEC 63180/AMD1 ED1	Amendment 1 - Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection	23B/1491/ CDV	APUB		2025-04
21.	IEC 63418 ED1	Fixed accessories intended for household and similar purposes that supply power through an interface	23B/1502/ CD	ACDV	TCDV	2026-01

ANNEXURE 11
TC 23A, 23B VOTING

S. No	Doc. Number	Closing Date	Vote
1.	23A/1078/AC	21-06-2024	No Comments
2.	23A/1080/Q	28-06-2024	Yes
3.	23B/1506/CD	12-07-2024	Comments Attached
4.	23B/1510A/DC	12-07-2024	No Comments
5.	23B/1503/CDV	26-07-2024	In Favour
6.	23B/1512/Q	26-07-2024	Yes
7.	23A/1098/Q	09-08-2024	Yes
8.	23B/1513/CD	06-09-2024	Comments Attached
9.	23B/1518/DC	13-09-2024	No Comments
10.	23B/1519/DC	13-09-2024	No Comments
11.	23B/1533/FDIS	01-11-2024	In Favour
12.	23B/1534/FDIS	01-11-2024	In Favour
13.	23B/1535/FDIS	01-11-2024	In Favour
14.	23B/1536/FDIS	01-11-2024	In Favour

ANNEXURE 12

DETAILS OF EXPERTS NOMINATED IN IEC TC 23/SC 23 A AND SC 23B WORKING GROUPS

IEC SC 23A

WG/MT/JWG	Title	Expert
JWG 21	Hanging Brackets for Radiating Cables	Nil
MT 1	Extra-heavy duty electrical rigid steel conduits, fittings and accessories	Nil
MT 11	Fire performances and environmental performances of cable management systems	Nil
MT 12	Cable tray systems and cable ladder systems	Nil
MT 13	Conduit systems	Nil
MT 14	Underground conduit systems for electrical cables and/or communication cables	Nil
MT 15	Powertrack systems	Nil
MT 16	Cable cleats	Nil
MT 17	Cable ties and ancillaries (Joint with CLC/TC213/WG06)	Nil
MT 18	Cable glands and cable transit devises	Nil
MT 19	Articulated systems and flexible systems for cable guiding	Nil
MT 5	Cable trunking systems and cable ducting systems	Nil
WG 22	Product data properties	Nil

IEC SC 23B

WG/MT/AG	Title	Expert Name
AG 15	Chair's Advisory Group (CAG)	
MT 4	Maintenance of IEC 60669-1, 60669-2-4, 60884-1, 60884-2-1, 60884-2-2, 60884-2-3, 60884-2-4, 60884-2-6, 60884-2-7	Mr. Suresh Krishnarao Deotalu
		Mr. Suresh Raja
		Mr. Gurveen Singh Sachdeva
		Mr. Vaibhav Tilekar
MT 5	Maintenance of IEC 60670-1 60670-21, 60670-22, 60670-23, 60670-24	Nil
MT 6	Maintenance of IEC 60669-2-1, IEC 60669-2-5 and IEC 63180	Nil
MT 8	Maintenance of IEC 60669-2-2 & 60669-2-3	Nil
MT 9	Maintenance of IEC 60884-2-5	Nil
MT 10	Maintenace of IEC 61242	Nil
MT 13	Maintenance of the IEC 61995 series	Nil
MT 20	Maintenance of IEC 60906-2	Nil
PT 60884-2-8	PT 60884-2-8	Nil
WG 19	Plugs and socket outlets for DC to be used in Data Centres	Nil
WG 21	Electrical Accessories incorporating USB outlets	Nil
WG 22	Energy plug and energy socket outlets (proposed - to be confirmed by the WG at its first meeting)	Nil
WG 23	Additional functions	Nil

ANNEXURE 13

SECTOR AND SUB SECTOR CLASSIFICATION: Total Standards: 55

1. ETD 14- Electrical Wiring accessories

S. No	Sector	Sub Sector	Standards
1	Plugs, socket-outlets and switches	Plugs, socket-outlets	i. IS 1293 : 2019: Plugs and Socket-Outlets for Household and Similar Purposes of Rated Voltage up to and Including 250 V and Rated Current up to and Including 16 A - Specification (Fourth Revision) ii. IS 15787 : 2008: Switch - Socket - Outlets (Non - Interlock Type) iii. IS 4160 : 2005:Interlocking switch socket outlets - Specification (First Revision) iv. IS/IEC 60309-1 : 2021: Plugs fixed or portable socket-outlets and appliance inlets for industrial purposes Part 1: General requirements Second Revision v. IS/IEC 60309-2 : 2021:Plugs fixed or portable socket-outlets and appliance inlets for industrial purposes Part 2: Dimensional compatibility requirements for pin and contact-tube accessories Second Revision vi. IS/IEC 60884-2- 5 : 1995: Plugs and Socket-Outlets for Household and Similar Purposes Part 2 Particular Requirements D Section 5 Adaptors vii. IS/IEC 61058-1-1 : 2016:Switches For Appliances Part 1 General Requirements Section 1 Particular Requirements For Mechanical Switches viii. IS/IEC 61058-1-2 : 2016: Switches For Appliances Part 1 General Requirements Section 2 Particular Requirements For Electronics Switches ix. IS/IEC 61058-1 : 2016: Switches for appliances: Part 1 general requirements First revision
		Switches	i. IS 3854 : 2023: Switches for Domestic and Similar Purposes - Specification (Third Revision) ii. IS/IEC 60669-2-2 : 2006: Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 2 Electromagnetic remote-control switches (RCS) iii. IS/IEC 60669-2- 1 : 2008: Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 1 Electronic Switches iv. IS/IEC 60669-2- 1 : 2021:Switches for household and Similar fixed electrical installations Part 2-1: particular requirements electronic control devices
2	Conduits for electrical installations and related accessories	-	i. IS 14763 : 2022: 60423: 2007: Conduit Systems For Cable Management Outside Diameters Of Conduits For Electrical Installations And Threads For Conduits And Fittings ii. IS 14768 (Part 1) : 2000: Conduit fittings for electrical installations - Specification: Part 1 general requirements

			iii.	IS 14768 (Part 2) : 2003: Conduit fittings for electrical installations - Specification: Part 2 metal conduit fittings
			iv.	IS 14930 (Part 2) : 2001/IEC 61242-1: Conduit Systems for Electrical Installations - Part 2 : Particular Requirements - Conduit Systems Burried Underground
			v.	IS 16205 (Part 1) : 2017 : Conduit systems for cable management: Part 1 general requirements
			vi.	IS 16205 (Part 21) : 2017: Conduit Systems for Cable Management Part 21 Particular Requirements Rigid Conduit Systems
			vii.	IS 16205 (Part 22) : 2017: Conduit Systems for Cable Management Part 22 Particular Requirements - Pilable Conduit Systems
			viii.	IS 16205 (Part 23) : 2017: Conduit Systems for Cable Managemnet Part 23 Particular Requirements Flexible Conduit Systems
			ix.	IS 16205 (Part 24) : 2017: Conduit Systems for Cable Management part 24 Particular Requirements Conduit Systems Buried Under Ground
			x.	IS 3419 : 1988: Specification for Fittings for Rigid Non - Metallic Conduits (Second Revision)
			xi.	IS 3480 : 2024: Flexible Steel Conduits For Electrical Wiring-Specification (First Revision)
			xii.	IS 3837 : 1976: Specification for accessories for rigid steel conduits for electrical wiring (First Revision)
			xiii.	IS 4649 : 1968: Specification for adaptors for flexible steel conduits
			xiv.	IS 9537 (Part 1) : 1980:Specification for conduits for electrical installations: Part 1 general requirements
			xv.	IS 9537 (Part 2) : 1981:Specification for conduits for electrical installations: Part 2 rigid steel conduits
			xvi.	IS 9537 (Part 3) : 1983:Specification for conduits for electrical installations: Part 3 rigid plain conduits of insulating meterials
			xvii.	IS 9537 (Part 4) : 1983:Specification for conduits for electrical installations: Part 4 pliable self - Recovering conduits of insulating materials
			xviii.	IS 9537 (Part 5) : 2000: Conduits four electrical installations - Part 5 pliable conduits of insulating material
			xix.	IS 9537 (Part 6) : 2000Conduits for electrical installations - Specification: Part 6 pliable conduits of metal or composite materials
			xx.	IS 9537 (Part 8) : 2003: Conduits for electrical installations - Specification: Part 8 rigid non - Threadable conduits of aluminium alloy
3	Cable Management Systems	-	i.	IS 14927 (Part 1) : 2023/61084-1: Cable Trunking Systems and Cable Ducting Systems for Electrical Installations Part 1: General Requirements first revision
			ii.	IS 14927 (Part 2/Sec 1) : 2023/61084-2-1:2017: Cable trunking systems and cable ducting Systems for electrical installations Part 2-1: particular requirements cable trunking systems and

				cable Ducting systems intended for mounting on walls and ceilings first revision
			iii.	IS 14927 (Part 2/Sec 1) : 2001/IEC 61084-2-: Cable Trunking and Ducting Systems for Electrical Installations : Part 2 Cable Trunking and Ducting Systems Intended for Mounting on Walls or Ceiling
			iv.	IS 17345 (Part 1) : 2020: Power Track System Part 1 General Requirement
			v.	IS 17345 (Part 21) : 2020: Power Track System Part 21 Particular Requirements for Power Track Systems Intended
			vi.	IS/IEC 61537 : 2006 :Cable Management - Cable Tray System and Cable Ladder System Wall and Ceiling Mounting
4	Other electrical accessories	Lamp Holders	i.	IS 10276 (Part 1) : 2024/60238: 2016: Edison Screw Lamp-holders (first revision)
			ii.	IS 1258 : 2024/61184: 2017: Bayonet lampholders (Fifth Revision)
			iii.	IS 3323 : 1980 :Specification for bi-pin landholders for tubular fluorescent lamps (First Revision)
			iv.	IS 3324 : 1982: Specification for holders for starters for tubular fluorescent lamps (First Revision)
		Fan Regulators	i.	IS 11037 : 2019: Electronic Type Fan Regulators - Specification
		Boxes and enclosures for electrical accessories	i.	IS 14772 : 2020: Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations — General Requirements (First Revision)
		Other electrical Accessories	i.	IS 15368 : 2003:Cable reels for household and similar purposes
			ii.	IS 16783 : 2018/IEC 61914 : 2015: Cable Cleats for Electrical Installations
			iii.	IS 17039 : 2018/IEC 61316 : 1999: Industrial Cable Reels
			iv.	IS 371 : 1999: Ceiling roses - Specification (Third Revision)
			v.	IS/IEC 60320-1 : 2021:Appliance couplers for household and similar general purposes Part 1: General requirements
			vi.	IS/IEC 60320-2-3 : 2018:Appliance couplers for household and similar general purposes Part 2-3: Appliance couplers with a degree of protection higher than IPX0 Second Revision
			vii.	IS/IEC 60998-1 : 2002: Connecting Devices for Low-Voltage Circuits for Household and Similar Purposes Part 1 General Requirements
			viii.	IS/IEC 62275 : 2018:Cable management systems - Cable ties for electrical installations

ANNEXURE – 14

ETD 14 - ELECTRICAL WIRING ACCESSORIES SECTIONAL COMMITTEE, COMPOSITION

Sl. No.	Organization	Member Name	Role	Attendance out of Last Meeting
1.	Central Public Works Department, New Delhi	Shri Vimal Kumar	Chairperson	3/3
2.	All India Plastics Manufacturers Association, Mumbai	Shri Jagat Killawala	Principal Member	3/3
3.	All Kerala Small Scale PVC Pipe Manufacturers, Ernakulam	Shri Fahad Hameed M.M	Principal Member	2/3
		Shri Shankar S kumar	Alternate Member	
4.	Central Electricity Authority, New Delhi	Smt Kavita Jha	Principal Member	1/3
		Shri Abhishek Kumar Sharma	Alternate Member	
5.	Central Public Works Department, New Delhi	Shri S. K. Chawla	Principal Member	3/3
		Shri Awadhesh Kumar	Alternate Member	
6.	Consumer Voice, New Delhi	Shri Harbans Wadhwa	Principal Member	3/3
7.	Dell Technologies, Gurugram	Shri Rajender Saini	Principal Member	3/3
8.	Electrical Contractors Association of Maharashtra, Pune	Shri Kamlesh Shah	Alternate Member	2/3
		Shri Sanjay Kolhatkar	Principal Member	
9.	Electrical Research and Development Association, Vadodara	Shri Rakesh Patel	Principal Member	3/3
		Shri Jitendra Tahilwani	Alternate Member	
10.	Fine Switchgears, Phagwara	Shri Sethi Mohinder	Principal Member	1/3
		Shri Sethi Ashok	Alternate Member	
11.	Hager Electro Private Limited, New Delhi	Shri Shirish Zope	Principal Member	2/3
12.	Havells India Limited, Noida	Shri Nitesh Kumar	Principal Member	3/3
		Shri Sameer Dass	Alternate Member	
13.	Honeywell Electrical Devices and Systems India Limited, Chennai	Shri Sumit Jain	Principal Member	3/3
		Shri Arvind Kumar	Alternate Member	
14.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Rishabh Joshi	Principal Member	3/3
		Shri Navdeep Singh	Alternate Member	
15.	Kinjal Electricals Private Limited, New Delhi	Shri Mohit Jain	Alternate Member	3/3
		Shri Jain R.K.	Principal Member	

Sl. No.	Organization	Member Name	Role	Attendance out of Last Meeting
16.	Manufacturers Association for Information Technology, New Delhi	Shri Rishi Kant Verma	Alternate Member	1/3
		Shri A A Jafri	Principal Member	
17.	Ministry of Micro, Small and Medium Enterprises, New Delhi	Shri S.V. Sharma	Principal Member	1/3
		Shri Anuj Kansal	Alternate Member	
18.	Novateur Electrical and Digital Systems Private Limited, Chennai	Suresh Deotalu	Principal Member	3/3
		Shri V A Tilekar	Alternate Member	
19.	Panasonic Life Solutions India Private Limited, Gurugram	Shri Rohit Pandey	Principal Member	3/3
		Shri Jai Bhagwan	Alternate Member	
20.	Schneider Electric India Private Limited, Gurugram	Shri Suresh Raja	Principal Member	3/3
		Shri Gurveensingh Sachdeva	Alternate Member	
21.	V-Guard Industries Limited, Haridwar	Shri Anil katiyar	Principal Member	2/3
		Shri Ankush Kumar	Alternate Member	
22.	Western India Electrical Accessories Manufacturers Association, Mumbai	Shri Kishore K. Nandu	Principal Member	3/3
		Shri Kapil Ajmera	Alternate Member	
		Shri Mitesh Gosrani	Alternate Member	
23.	In Personal Capacity	Shri Hemant M Sali	Personal Capacity	1/3