

MINUTES

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Electrical Wiring Accessories Sectional Committee, ETD 14	35th	Tuesday	9th January 2024	11.00 AM	Hybrid Meeting

CHAIRMAN: Shri Vimal Kumar, CE, CPWD

MEMBER SECRETARY: Ms. Neha Agarwal

Members Present:

S.No	Organization	Name	Inperson/Online
1.	Central Public Works Department, New Delhi	Shri Vimal Kumar	Inperson
2.	BIS-ETD	Ms Neha Agarwal	Inperson
3.	All India Plastics Manufacturers Association, Mumbai	Shri Jagat Killawala	Online
4.	BIS-CMD-I	Shri Ranjit Kumar	Inperson
5.	BIS-CMD-III	Shri Peeyush Prakas	Inperson
6.	BIS-CMD-III	Shri Rahul	Inperson
7.	Consumer Voice, New Delhi	Shri Harbans Wadhwa	Online
8.	Dell Technologies, Gurugram	Shri Rajender Saini	Online
9.	Electrical Contractors Association of Maharashtra, Pune	Shri Sanjay G Kolhatkar	Online
10.	Electrical Research And Development Association, Vadodara	Shri Rakesh Patel	Online
11.	Hager Electro Private Limited, New Delhi	Shri Shirish Zope	Inperson
12.	Havells India Limited, Noida	Shri Shailendra Singh	Online
13.	Havells India Limited, Noida	Shri Yogesh Sonawane	Inperson
14.	Havells India Limited, Noida	Shri Nitesh Kumar	Inperson
15.	Honeywell Electrical Devices And Systems India Limited, Chennai	Shri Arvind Kumar	Online
16.	Honeywell Electrical Devices And Systems India Limited, Chennai	Shri Mani Mishra	Online
17.	Honeywell Electrical Devices And Systems India Limited, Chennai	Shri Sumit Jain	Online
18.	Indian Electrical And Electronics Manufacturers Association, New	Shri Navdeep Singh	Online

	Delhi		
19.	Kinjal Electricals Private Limited, New Delhi	Shri Rakesh Jain	Online
20.	Ministry Of Micro, Small And Medium Enterprises, New Delhi	Shri S V Sharma	Online
21.	Ministry Of Micro, Small And Medium Enterprises, New Delhi	Shri Anuj Kansal	Inperson
22.	Novateur Electrical And Digital Systems Private Limited, Chennai	Shri Suresh Deotalu	Online
23.	Novateur Electrical And Digital Systems Private Limited, Chennai	Shri Vaibhav Tilekar	Online
24.	Panasonic India Private Limited, Gurugram	Shri Anil Mehta	Online
25.	Panasonic India Private Limited, Gurugram	Shri Jai Bhagwan	Inperson
26.	Schneider Electric India Private Limited, Gurugram	Shri Gurveensingh Sachdeva	Online
27.	Schneider Electric India Private Limited, Gurugram	Shri Suresh Raja	Inperson
28.	V Guard Industries Limited	Shri Anil Katiyar	Inperson
29.	Western India Electrical Accessories Manufacturers Association, Mumbai	Shri Kapil Ajmera	Inperson
30.	Western India Electrical Accessories Manufacturers Association, Mumbai	Shri Mitesh Gosrani	Inperson

Item 0 WELCOME ADDRESS AND OPENING REMARKS BY THE

CHAIRMAN

Shri Vimal Kumar welcomed all the members present during the meeting and requested members for focused discussion on all the items included into the agenda. He wished for fruitful discussion and completion of all the agenda items.

Ms Neha Agarwal, member secretary welcomed all the members present during the meeting.

The meeting started with brief introduction of all the members.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

- 1.1** In view of no comments, the committee confirmed the minutes of the 34th meeting of Electrical Wiring Accessories Sectional Committee, ETD 14 held on 15th September 2023.

1.2 Actions Arising Out of Previous Meetings

Sl. No.	Item No. Of Last Minutes	Subject	Decision taken during the previous meeting	Action Taken	Decision taken
1.	1.2 (1)	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)	<p>The draft amendment no 3 will be generated after the finalization of already issued draft amendment no 2 to IS 1293.</p> <p>The committee noted the information.</p>	<p>The draft amendment no 3 was prepared by the member secretary and sent to Shri Suresh Deotalu for technical vetting. Please refer modified Annex 1 for draft amendment no 3 along with revised comments received from Shri Suresh Deotalu on the document.</p> <p>The committee may discuss.</p>	<p>Shri Suresh Raja opined that NEC 2023 specifies household domestic power circuits upto 3kW max. Therefore, it need to be discussed with ETD 20 about the best practice of connecting the heavy load appliances & maximum load consideration in domestic installation.</p> <p>Shri Suresh Deotalu said that to avoid unnecessary tripping with MCBs, it is always preferable to use higher rating switches and socket-outlets with heavy appliances as number of operations for them are 10 times higher than MCB.</p> <p>Further, Chairman suggested to keep 25 A ratings with taking into consideration all the essential safety parameters. Therefore, the committee recommended the following:</p> <p>a) Mandatorily use of solid pins and sleeves b) Mandatorily use of shutters</p> <p>Legrand was requested to send the 25 A plug and socket-outlet samples to WROL, BIS for testing and to share their inhouse test results as well with the committee.</p> <p>Meanwhile, the committee</p>

					decided to circulate the draft amendment no 3 for seeking feedback.
2.	1.2(3)	New Work Item Proposals- Socket with USB charger	The draft has been received and will be circulated shortly for seeking feedback.	The draft was widely circulated vide DGBIS letter dated 02-01-2024 with last date of comments as 02-02-2024.	The committee noted the information.
3.	1.2(7)	ETD/14/15900 (Technically equivalent to IEC 60884-2-5: 2017) Adaptors for Household and Similar Purposes – Particular Requirements	To prevent any future misunderstandings, the committee emphasized that travel adaptors are exclusively intended for portable use and should not be utilized as permanent fixtures in households or similar settings. Further, members were requested to review the modified draft and submit comments, if any, within the stipulated timeframe. If no comments are received, or if the comments received are of an editorial nature, the draft will be sent for printing with the chairman's approval.	In receipt of no comments, the finalized document is being sent to chairman for approval.	The committee noted the information.
4.	1.2(8)	ETD/14/16808 (modified/Technically Equivalent To: 60884-2-7)	The members have requested the replacement of the image depicting	The document will be sent for printing shortly.	The committee noted the information.

		Specifications For CordExtension Sets	<p>cord extension sets with multi-standard sockets in Industry Information Document V4. The image is to be replaced with one featuring round-pin sockets.</p> <p>Additionally, it was clarified that integrated cord extension sets must also utilize socket outlets in accordance with the dimensions (round pins only) specified in IS 1293.</p> <p>In view of no comments received, it was decided to send the document for printing.</p> <p>The committee also recommended proposing cord extension sets for mandatory certification.</p>		
5.	1.2 (9)	<p>ETD/14/2125 IS15787:2008 Modified/Technically Equivalent To: 60884-2-3(2006)</p> <p>Switch Socket Outlets non-interlock Type First Revision</p>	<p>The committee discussed and agreed with all the comments submitted by AIPMA, WIEMA and ERDA.</p> <p>It was decided to send the modified draft for printing.</p>	The document has been sent for printing.	The committee noted the information.
6.	3	ETD/14/16866 Amendment No 2 to	The committee concurred with the recommendations	Finalized amendment is published.	The committee noted the information.

		IS1293:2019	<p>put forth by the working group, which suggested excluding 10A rated accessories from IS 1293.</p> <p>Accordingly, amendment no 2 will be modified to include HFFR cable as per IS 17048 (decided in 32nd meeting) and will be circulated again for 15 days before finalization.</p> <p>The committee also discussed the comments received and decided the following:</p> <p>1)The committee deliberated on the necessity of dummy earth pins for 2-pin molded plugs to operate the shuttered sockets. During the discussion, Shri Suresh Raja proposed the inclusion of a requirement in IS 1293 itself to enable the operation of shutters with 2-pin plugs.</p> <p>2) The committee deliberated upon the comments received by Panasonic and WIEMA and</p>		
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			<p>opined that the use of 2-pin rewirable plugs with Class-I appliances could potentially pose a serious safety hazard. In cases where needed, customers have the option to purchase rewirable plugs with Class-I appliances could potentially pose a serious safety hazard. In cases where needed, customers have the option to purchase.</p> <p>3- pin rewirable plugs.</p> <p>Due to internet connectivity issues, the committee was unable to hear the views of Shri Kapil Ajmera from WIEMA. Nonetheless, in light of the similarity between their views and those of Panasonic, the decision was reached to exclude 2-pin rewirable plugs from IS 1293.</p>		
7.	4.3 (a)	IS 11037: 2019 Electronic type fan regulators	<p>It was decided to further deliberate the issue regarding voltage against each step in the 2nd working group meeting.</p> <p>Chairman also suggested to</p>	<p>The WG meeting was held on 3rd Jan 2024. Please refer Annex 2 for WG meeting report.</p>	<p>The committee recommended to get more feedback/ data for performance values of fan regulator regarding step voltage acceptance criteria for different wattage of fan regulators from various fan manufacturers.</p>

			<p>include more fan manufactures into the WG.</p> <p>As there are currently no issues with testing fan regulators in accordance with IS 11037, therefore the committee decided to recommend electronic types fan regulator for mandatory certification as per IS 11037.</p>		
8.	4.3 (b)	IS3419: 1988 Specification for fittings for rigid non – Metallic	<p>The member secretary informed that received comments were shared with AKSSPPMA for resolution. With the exception of the comment at serial number 1, all other comments were deemed acceptable.</p> <p>The committee agreed with the same and it was decided to modify the document accordingly and send the modified document again for wide circulation for 15 days.</p>	<p>The modified draft is awaited from AKSSPPMA.</p> <p>Upon receipt, the draft will be wide circulated again for seeking comments.</p>	<p>The committee noted the information.</p>

9.	4.3 (a)	New Work Item Proposals-	IEC 60884-2-4: Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV It was decided to wide circulate the IEC for seeking feedback.	ETD 14 Doc. (24016) was wide circulated vide BISDG letter dated 2-11-2023 with last date of comments as 1 st Dec 2023. No comments were received. The committee may consider.	The committee deliberated the clause 9.2 of IEC 60884-2-4 where it shall not be possible for d.c. plugs to enter a.c. socket-outlets, nor a.c. plugs to enter d.c. socket-outlets. It was opined to share the IEC standard with all the committee members for thoroughly reviewing and submitting the feedback.
10.	9	ANY OTHER BUSINESS	Shri Suresh Raja proposed to formulate Indian Standard on EV socket as per annexure 1 of IEC 60884-1. He was requested to submit the detailed proposal on the same	Please refer Annex 3 . The committee may consider.	The committee discussed the new work proposal submitted by Shri Suresh Raja, specifically addressing the use of ordinary sockets for Electric Vehicle (EV) charging in residential settings. Concerns were raised regarding potential safety risks associated with prolonged or fast charging using these standard sockets. Consequently, it was unanimously agreed that the specifications for EV sockets should be incorporated into IS 1293.

ITEM 2 COMPOSITION OF ELECTRICAL WIRING ACCESSORIES SECTIONAL COMMITTEE, ETD 14

- 2.1** The committee noted the present composition of Electrical Appliances Sectional Committee, ETD 14. It was recommended to coopt expert from Railway as suggested by Shri Jagat Killawala, AIPMA.
- a) V-Guard Industries Ltd - Shri Suresh Kumar, Engineer- Accepted (Earlier member as Simon Electric)
 - b) Bajaj Electricals- Shri Socrates Chandrasekaran- Not accepted, it was suggested to submit their viewpoints through industry association that is already member in ETD 14.

Item 3 APPROVALS OF DRAFT INDIAN STANDARDS FOR FINALIZATION

SL.No	Doc No	TITLE	Decision
1	ETD 14 (24016) (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	Please refer Item 1.2(9)

Item 4 REVIEW OF PROGRAMME OF WORK (POW) of ETD 14

4.1 The committee noted the POW of ETD 14.

The committee may review and note.

4.2 **Comments received from Manak Mantrana-** 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.

IS 3419: 1989 Fittings for Rigid Non Metallic Conduits

“The tolerances given for Dimensions may be revisited since many failures reported are of Dimensions and in minimum threaded length of screws used for lid for Spout type circular boxes. The samples were otherwise conforming to performance requirements.”

The committee requested failure analysis report with data from branch office for last one year so that the modifications in tolerances may be considered for revision.

4.3 **Review of Standards - Taking up Revision of Pre-2000 standards**

The committee noted the information.

4.4 **Standards due for reaffirmation**

S.NO.	IS NO	TITLE
1.	IS 11037 : 2019	Electronic Type Fan Regulators — Specification (First Revision)
2.	IS 14768 (Part 1) : 2000	Conduit fittings for electrical installations - Specification: Part 1 general requirements
3.	IS 15787 : 2008	Switch - Socket - Outlets (Non - Interlock Type)

4.	IS 3324 : 1982	Specification for holders for starters for tubular fluorescent lamps(First Revision)
5.	IS 9537 (Part 8) : 2003	Conduits for electrical installations - Specification: Part 8 rigid non - Threadable conduits of aluminium alloy
6.	IS 15368 : 2003	Cable reels for household and similar purposes
7.	IS 17039 : 2018	Industrial Cable Reels
8.	IS 16783 : 2018	Cable Cleats for Electrical Installations
9.	IS 1293 : 2019	Plugs and socket- outlets of rated Voltage up to and including 250Volts and rated current up to and including 16 amperes- Specification(Fourth Revision)

It was decided to circulate the list of standards with all the committee members for their feedback.

4.5 Comments received on published Indian Standards

I. Comments received from WIEMA:-

- a) Permission to put ISI Logo/ BIS standard mark on Switch Socket Combine (also popularly known as 3-in-1 and 5 in 1 in electrical wiring accessories parlance) as per IS 3854 & IS 1293: 2019 instead of forcing the manufacturers to take separate license as per IS 15787.

The committee deliberated the issue and suggested that as per the scope of IS 15787, switched socket-outlets can also be produced by combining ISI marked switches and sockets. Additionally, the whole product can also be ISI marked as per IS 15787. In such instances, adherence to the requirements specified in IS 15787 is mandatory.

- b) Inclusion of 2 Pole, 6A re-wireable Plugs in IS 1293: 2019

Shri Vimal Kumar, Chairman stated that the matter has been discussed several times in previous sectional committee meetings and the decision as taken during the previous meeting would stand.

- c) Issues related to Implementation and Faulty Interpretation of Clause 8.4 pertaining to Marking Requirements on Switches wherein WRO is insisting on marking terminals with L, L1 marking for phase conductors (supply conductors) resulting to unjustified Failure Report of the testing samples of ISI Licenses under IS 3854

Shri Kapil Ajmera clarified that if the method of connecting the switch is not critical, marking of terminals is not necessary, as the switch's functionality will remain consistent regardless of its connection. Terminal marking becomes essential for single pole two-way switches and other switch variations where the connection method is crucial. Additionally, committee members expressed the view that labeling

switch terminals with identifiers like L or LI is acceptable. However, the decision to mark terminals in such cases should be at the discretion of the manufacturer, allowing flexibility in the labeling practice.

II. Comments received from ERDA:- IS 1293: 2019

The committee deliberated the comments and requested ERDA to share the pictures of samples of the variety for which amendment is proposed in table 16 of IS 1293: 2019 for further consideration.

III. Comments Received from Schneider: - IS 3854 :2023

1. 3.28 Acceptance Tests — Tests carried out on samples taken from a test lot for the purpose of acceptance of the test- *Accepted by the committee*
2. Distribution system values to be updated as per Table 19 of IEC 60669-1 Ed 4- *Not accepted.*

IV. Comments received from CMD-3- IS 1293 & IS 3854

It is proposed that following para may be added in IS 1293 and IS 3854 through Amendment :

" Switched socket-outlets can also be produced by combining a socket as per IS 1293 and a switch as per IS 3854. However, integrated switched socket outlets (molded) where separate testing as per the IS 1293 and IS 3854 is not possible, then the switched socket outlets should meet the requirements of IS 15787. "

The committee deliberated the comments and suggested that this clause may be added in revised draft for IS 15787.

4.6 Identification of critical/non-critical parameters of Indian Standards

The committee deliberated and opined that each and every parameter mentioned in the standard is critical with respect to safety and quality of the product. However, in order to further examine the list thoroughly, it was decided to share the list with all the members.

4.7 Electrical Accessories (Quality Control) Order, 2023 notified by DPIIT on 01st January 2024

The committee noted the information.

FOR FORMULATION AND REVIEW OF STANDARDS

ToRs on the following subjects were discussed:

1. Comprehensive study of Specification for integrated cord extension sets
2. Revision of IS 3419: 1988 'Three - Phase squirrel cage induction motors for centrifugal pumps for agricultural application – Specification'
3. Revision of IS 9537 Series 'Specification for Conduits for Electrical Installations.'

It was decided to circulate all the ToRs amongst members for seeking feedbacks and suggestions for further modifications.

Item 5 INTERNATIONAL ELECTROTECHNICAL COMMISSION

The committee noted the information.

Item 6 TRAINING PROGRAMME

The committee noted the information.

Item 7 INFORMATION ON E-SALE OF STANDARDS BY BIS

The committee noted the information.

Item 8 WTO-TBT ENQUIRY POINT

The committee noted the information.

Item 9 DATE AND PLACE FOR THE NEXT

The next meeting will be held as per the Annual meeting Calendar 2024-25 (under preparation).