

**For BIS Use Only**

**BUREAU OF INDIAN STANDARDS**

**MINUTES**

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
ETD 14 - Electrical Wiring Accessories Sectional Committee	36th	Thursday	13 <sup>th</sup> June 2024	10:30 AM	Hybrid Mode

**CHAIRMAN:** : Shri Vimal Kumar, CE, CPWD

**MEMBER SECRETARY:** Ms. Ankita Tripathi

The list of attendees is given below:

Sl. No.	Name	Organization	Mode of Participation
1.	Shri Vimal Kumar (Chairman)	Chief Engineer & Executive Director Central Public Works Department, New Delhi	In person
2.	Sh. A K Maharana	Head (ETD), BIS	In person
3.	Ms. Ankita Tripathi	Member Secretary, BIS	In person
4.	Shri Shankar S Kumar	All Kerala Small Scale PVC Pipe Manufacturers, Ernakulam	Online
5.	Shri Fahad Hameed M.M	All Kerala Small Scale PVC Pipe Manufacturers, Ernakulam	Online
6.	Shri Jagat Killawala	All India Plastics Manufacturers Association, Mumbai	Online
7.	Shri Harbans Wadhwa	Consumer Voice, New Delhi	Online
8.	Shri Rajender Saini	Dell Technologies, Gurugram	Online
9.	Shri Rakesh Patel	Electrical Research and Development Association, Vadodara	Online
10.	Shri Sanjay Kolhatkar	Electrical Contractors Association of Maharashtra, Pune	Online
11.	Shri Yogesh Sonawane	Havells India Limited, Noida	Online
12.	Shri Nitesh Kumar	Havells India Limited, Noida	In person
13.	Shri Shirish Zope	Hager Electro Private Limited, New Delhi	Online
14.	Shri Sumit Jain	Honeywell Electrical Devices and Systems India Limited, Chennai	Online
15.	Shri Navdeep Singh	Indian Electrical and Electronics Manufacturers Association, New Delhi	Online
16.	Shri R.K Jain	Kinjal Electricals Private Limited, New Delhi	In person
17.	Shri Suresh Deotalu	Novateur Electrical and Digital Systems Private Limited, Chennai	In person
18.	Shri V A Tilekar	Novateur Electrical and Digital Systems Private Limited, Chennai	In person

19.	Shri Jai Bhagwan	Panasonic India Private Limited, Gurugram	Online
20.	Shri Rohit Pandey	Panasonic India Private Limited, Gurugram	Online
21.	Shri Gurveen Singh	Schneider Electric India Private Limited, Gurugram	Online
22.	Shri Suresh Raja	Schneider Electric India Private Limited, Gurugram	In person
23.	Shri Ankush Kumar	V-Guard Industries Limited, Haridwar	Online
24.	Shri Anil katiyar	V-Guard Industries Limited, Haridwar	In person
25.	Shri Mitesh Gosrani	Western India Electrical Accessories Manufacturers Association, Mumbai	Online
26.	Shri Kapil Ajmera	Western India Electrical Accessories Manufacturers Association, Mumbai	Online
27.	Shri Hemant Sali	In personal capacity	Online
28.	Shri Gopu V Namboothiri	All Kerala Small Scale PVC Pipe Manufacturers, Ernakulam	Online

#### **Item 0 WELCOME AND OPENING REMARKS BY THE CHAIRMAN**

Shri Vimal Kumar, Chairperson, ETD 14 welcomed all the members for the 36<sup>th</sup> meeting of the ETD 14 - Electrical Wiring Accessories Sectional Committee. He appreciated the progress of work undertaken by the committee and requested the members to participate proactively in the work of the committee.

Mr. A K Maharana, Head (ETD) also welcomed all the members present in the meeting. He requested the members to actively participate and contribute to the standardization in this area. He stressed the need of timely submission of reports by the working groups/panels, resolution of various issues pending through logical decisions in the committee and identification of subjects where support through R and D is required.

Member Secretary, Ms. Ankita Tripathi extended a warm welcome to all the members present in the meeting and wished for a fruitful discussion in the meeting.

The meeting started with a brief introduction from all the members.

#### **Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

In view of no comments, the committee confirmed the minutes of the last meeting (35<sup>th</sup> meeting) of the Electrical Wiring Accessories Sectional Committee, ETD 14 held on 9<sup>th</sup> January, 2024.

#### **Item 2 COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1** The committee noted the present composition of the Electrical Wiring Accessories Sectional Committee.

The following was recommended/discussed by the committee:

- i. 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.
- ii. Both of the members from CPWD have superannuated. It was decided to seek fresh nominations from CPWD by writing letter to DG, CPWD.

- iii. Since railways is the major user for the electrical accessories, 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.
- iv. The composition was reviewed and it was discussed that the committee lacks representation 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.
- v. Fresh Nominations to be sought from Manufacturers Association for Information Technology as both of the members are no longer associated with the organization.
- vi. 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.

## 2.2 Balance in Composition, Effective Nominations, and Involvement of New Talent and Young Professionals.

The committee noted the information.

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

The committee noted the information

### Item 3 ACTION ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item No.	Subject	Decision taken in the previous meeting	Action Taken	Decision 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)	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.  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	The proposal of ETD 14 for inclusion of 25A plugs and socket outlets in IS 1293:2019 was discussed in the 40 <sup>th</sup> meeting of the Safety of electrical Installations sectional committee, ETD, 20 held on 19 <sup>th</sup> March 2024.  The corresponding extract of the approved Minutes of ETD 20 is placed at <b>Annexure-10</b> .  Further the Justification received from Sh. Suresh Deotalu, Novateur Electrical and Digital Systems Private Limited is enclosed at <b>Annexure-10</b> .  The committee may discuss and decide the inclusion of 25A rating plugs and Socket outlets in IS 1293:2019.	<ul style="list-style-type: none"> <li>• The proposal for inclusion of 25 A rating Plugs and Sockets in IS 1293:2019 was discussed in detail.</li> <li>• 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.</li> <li>• 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 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.</li> </ul>

			<p>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</p> <p>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 decided to circulate the draft amendment no 3 for seeking feedback.</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• It was also discussed that, if required, a R&amp;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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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 prototype is</li> </ul>
--	--	--	--	---

					<p>to be tested. The prototype 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.</p> <ul style="list-style-type: none"> <li>• A decision for the inclusion of the 25 A rating plugs and socket outlets in IS 1293 or the need of further R &amp;D shall be taken by the committee based on inputs received.</li> </ul>
2.	1.2(2)	New Work Item Proposals- Socket with USB charger	The draft was wide circulated vide DGBIS letter dated 02-01-2024 with last date of comments as 02-02-2024	The comments have been received and same are placed at <b>Annexure 2</b> . The committee may discuss.	<p>The comments received on the draft was discussed by the committee.</p> <p>The decision taken with reference to the comments received is placed at <b>Annexure -1</b>.</p> <p>It was decided to again wide circulate the draft for 15 days after incorporation of the agreed changes.</p> <p>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.</p>
3.	1.2(3)	ETD/14/15900 (Technically equivalent to IEC 60884-2-5: 2017)  Adaptors for Household and Similar Purposes – Particular Requirements	Members were requested to review the modified draft and submit comments, if any, within the stipulated timeframe.  In receipt of no comments, the finalized document is being sent to chairman for approval.	The document has been sent for printing.	The committee noted the information.
4.	1.2(4)	ETD/14/16808 (modified/ Technicall y Equivalent To: 60884-2-7)	The document will be sent for printing.	The document has been sent for printing.	The committee noted the information

		Specifications For Cord Extension Sets			
5.	1.2 (5)	ETD/ 14/21 25IS1 5787: 2008 Modified/Technically Equivalent To: 60884-2-3(2006)  Switch Socket Outlets non-interlock Type First Revision	It was decided to send the modified draft for printing	The document has been sent for printing.	The committee noted the information.
7.	1.2(7)	IS 11037: 2019 Electronic type fan regulators	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.	The data regarding voltage each against each step for the commonly available fan regulators has been requested from Fan Manufacturers.  Once the data from prominent manufacturers is received the same will be taken up in the working group meeting.	The committee noted the information.  It was also discussed to look into the required wattage of fan regulators to enhance their regulation performance.  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.
8.	4.3 (b)	IS3419: 1988 Specification for fittings for rigid non-Metallic	The modified draft is awaited from AKSSPPMA. Upon receipt, the draft will be wide circulated again for seeking comments.	The modified draft was wide circulated on 05.02.2024. Comments have been received and the same is placed at <b>Annexure-3</b> .  The committee may discuss.	The comments received on the draft was discussed by the committee.  The decision taken with reference to the comments received is placed at <b>Annexure -2</b> .  It was decided to again wide circulate the draft for 15 days after incorporation of the agreed changes.

9.	4.3 (a)	New Work Item Proposals-	<p>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.</p> <p>It was opined to share the IEC standard with all the committee members for thoroughly reviewing and submitting the feedback.</p>	<p>The document was circulated to the committee members on 06.05.2024 for thorough review and submitting feedback.</p> <p>However, only one comment has been received from Havells India Limited stating that standard seems okay and we can move ahead for the adoption as an Indian Standard.</p> <p>The committee may discuss.</p>	<p>Since, no comments have been received on the draft, the committee finalized the document for printing.</p>
10.	9	<b>ANY OTHER BUSINESS</b>	<p>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.</p>	<p>The draft of the Annexure to be incorporated in IS 1293 to be prepared.</p> <p>The committee may discuss.</p>	<p>It was discussed that BIS has a dedicated committee (ETD 51) for looking into EV charging infrastructure. IS 17017(Part 22/Sec 1) is the relevant standard on charging systems for light electric vehicles. It specifies the use of only industrial plugs and socket outlets for EV charging.</p> <p>Therefore, it is not appropriate to incorporate specifications for EV sockets into IS 1293</p> <p>It was, therefore, unanimously agreed by the committee that the specifications for EV socket are not be incorporated into IS 1293.</p>

#### **Item 4 PRESENT POSITION OF WORK**

4.1 The committee noted the information.

#### **4.2. Comments received from Manak Manthan:**

The comments received in Manak Manthan on Published standard was discussed by the committee. The decision taken with reference to the comments received is placed at **Annexure -3**.

#### **Item 5 APPROVAL OF DRAFT INDIAN STANDARDS FOR FINALIZATION** Nil

#### **Item 6 REVIEW/REAFFIRMATION OF INDIAN STANDARDS**

##### **6.1 Review of Standards - Taking up Revision of pre-2000 standards:**

- i. The committee noted the status of Pre-2000 standards.
- ii. The committee decided to archive the following pre-2000 standards as the technology is obsolete and immediate attention/review is not required for these standards:
  - a. IS 3323 : 1980 Specification for bi-pin lampholders for tubular fluorescent lamps
  - b. IS 3324 : 1982 Specification for holders for starters for tubular fluorescent lamps
- iii. **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 has not been received.  
Mr. Kapil Ajmera agreed to submit the report within 15 Days in consultation with other 2 Members.

##### **6.2 Reaffirmation of Indian standards:**

The committee reviewed the status of standards due for reaffirmation . The decision of the committee is placed at **Annexure-4**.

#### **Item 7 NEW SUBJECTS TAKEN UP FOR STANDARDIZATION**

- i. **Plugs and socket-outlets for household and similar purposes - Particular requirements for socket-outlets for furniture.**  
It was decided to circulate the draft standard to the Committee members for their review and comments.

#### **Item 8 INTERNATIONAL ACTIVITIES**

**8.1** It was decided by the committee to take up the upgradation of the Membership of India in IEC TC 23(Electrical accessories committee) from O to P.

**8.2** The committee noted the information.

**8.3** The committee noted the information.

**8.4** The members were informed about the next meeting of IEC TC 23 scheduled to be held on 22<sup>nd</sup> and 23<sup>rd</sup> October in Edinburgh.

The experts from the Sectional Committee, ETD 14 who are actively participating are eligible to send their nominations for taking part in the forthcoming IEC TC 23 meeting.

Interested members were requested to provide their nominations for participation in the meeting along with the details of technical comments given/proposed to be given on the IEC documents published by TC 23 relevant for India.

#### **ITEM 9 PROCESS REFORMS IN BIS**

The committee noted the information.



## **ITEM 10 MEMORANDUM OF UNDERSTANDING WITH EMINENT ACADEMIC INSTITUTES**

The committee noted the information.

## **ITEM 11 GUIDELINES FOR RESEARCH & DEVELOPMENT PROJECTS FOR FORMULATION AND REVIEW OF STANDARDS FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS.**

**11.1** The committee noted the information.

**11.2** Committee members were requested to identify subjects related to the scope of the committee including formulation of new standards or the revision of existing ones that require support of R and D for execution.

**11.3** It was decided to take up the revision of IS 9537 Series of standards on Specification for Conduits for Electrical Installations through an R and D Project. Member Secretary to prepare the draft Terms of Reference of the proposed R and D project and circulate it to the committee members for their comments.

## **ITEM 12 DATE AND PLACE FOR THE NEXT MEETING**

The committee noted the annual meeting calendar of the committee.

## **ITEM 13 ANY OTHER BUSINESS**

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

**ANNEXURE 1**  
**Decision on Comments Received**

**ETD 14(24538): Socket-Outlets Incorporating USB Power Supply- Specifications**

SN o.	Basic Detail s	Clau se /Sub- claus e No. & Atta chme nt	Parag raph No./ Figure No./T able No.	Type of Commen t	Comments/Suggestions along with Justification for the Proposed Change	Proposed Change/Modified Wordings	Decision of the committee.
1.	Have lls India Limit ed	1	3 rd Paragr aph	Technical	Currently in India EMC requirement is not applicable on any of the product. Even though if we take example of IT/AV product category falling under BIS registration scheme there is no EMC requirement. Therefore EMC requirement for this product category need to be removed.	Remove the word 'and EMC'	The committee did not agree with the change proposed.
		1	3rd Paragr aph	Technica l	Currently in India EMC requirement is not applicable on any of the product. Even though if we take example of IT/AV product category falling under BIS registration scheme there is no EMC requirement.  Therefore EMC requirement for this product category need to be removed.	Remove the word 'and EMC'	The committee did not agree with the change proposed.
		3.10 4	Headi ng	Editorial	Please Selv written in small letter is not correct. Each letter specify some meaning so it has to be in Capital letter.	Replace word 'Selv' by 'SELV'	The committee agreed with the change proposed.
		4	3rd paragr aph	Typo Grap hical	Please insert space between followingparameter	Replace word 'followingparamet er' by ' following parameter'	The committee agreed with the change proposed.
		4 a)	---	Typo	Mismatch of text occur in	Replacement of a)	The committee

		& b)			the given document.	to e) point with text given below text.  a) Overvoltage Category i) Portable accessories: Min Cat II ii) Fixed accessories: Min Cat III  b) Pollution degree: 2 c) Material Class: Min. IIIa (CTI=175) e) Classification of use: By ordinary person	agreed with the change proposed.
	5.1	Table 101 3rd last row	Technical	1	Currently in India EMC requirement is not applicable on any of the product. Even though if we take example of IT/AV product category falling under BIS registration scheme there is no EMC requirement.  Therefore EMC requirement for this product category need to be removed.	Remove requirement listed on 3 <sup>rd</sup> last row against Clause no: 101.	The committee did not agree with the change proposed.
	8.2	2nd last line	Editorial		<small>NOTE — The following is an example of the marking for current, voltage and nature of</small> 5V --- 2.1A, alternatively, --- 2.1A, alternatively, 5V DC 2100mA	Please do correct the text as below 2.1A 5V	The committee agreed with the change proposed.
	8.10 1	---	Technical	1	Rated input current has to be added for the USB part	Below text need to be added.  - Rated input current	The committee agreed with the change proposed.  (To be added in the marking clause)
	8.10 1	Note	Editorial		Kindly remove the note mentioned at the last paragraph as it was taken from some EN standard.	Remove Note at end of the paragraph	The committee agreed with the change proposed.

	12	4th Para	Editorial	Instead of IS only 'S' was written before 1293	Replace text S by 'IS'	The committee agreed with the change proposed.
	13.1 01	3rd & 7th Para	Editorial	The spacing between creep age need to be removed.	Remove the space between text Creep age and write it as 'creepage'	The committee agreed with the change proposed.
	13.1 01	5th Para	Editorial	The spacing between insulationof is missing. Needto be added.	Replace by the text 'insulationof' by 'insulation of'.	The committee agreed with the change proposed.
	14.1 01	1st Para	Editorial	There is no space between detached and need to be added and A after fullstop need to be moved to2 <sup>nd</sup> paragraph	Replace by the text 'detachedand' by 'detached and'.  Move the word A at starting of thepara	The committee agreed with the change proposed.
	17. 10 2	1st and 2nd Para	Technica 1	<p>1. In most of the safety standard (e.g. <b>IS 13252-1 of IT equipment</b>) for the requirement for the electric strength between SELV and other circuit as 3000 V.</p> <p>2. In India rated voltage is 230V~, so no need to mention specific requirement for voltage aboveand below 130V</p> <p>Test duration is missing in the given text.</p>	<p>Replace full text mentioned under Cl.no. 17.102 as follows:-</p> <p>The test of <b>17.1.1</b> is repeated between the following parts with the USB power supply connected, having:</p> <ul style="list-style-type: none"> <li>- 3000 V between SELV circuits and other circuit(s) having a higher voltage than SELV,</li> <li>- 500 V between SELV circuits.</li> </ul> <p>Test duration: 1 minute</p>	<p>The committee agreed with the change proposed.</p> <p>It was decide decided to remove the second point of Cl.17.102</p> <p>It was decided to retain the first point and the third Point of Cl. 17.102 with Voltage for electric strength same as given in this draft.</p>
	19. 10 1	4th Para	Editorial	Typo graphical error in writing earthing circuit	Replace 4 <sup>th</sup> Para with the below text  For b) and c), the earthing circuit, if any, is not tested.	The committee agreed with the change proposed.
	21. 10 1	1st Para	Technica 1	In most of the safety standard (e.g. <b>IS 13252-1 of IT equipment</b> ) for the	Replace the existing text with belowtext:	

					requirement for the electric strength between SELV and other circuit as 3000 V.	A voltage of 3000 V RMS is applied for 1 min between the primary and the secondary side of the USB power supply.	
		101, 102	---	Technical 1	Currently in India EMC requirement is not applicable on any of the product. Even though if we take example of IT/AV product category falling under BIS registration scheme there is no EMC requirement.  Therefore EMC requirement for this product category need to be removed.	Remove Cl.no 101, 102	The committee did not agree with the change proposed.
		----	----	Technical 1	Once this standard will come under implementation then manufacturer need not have to apply R-number separately for the USB part.	One license should be required for this product.	Comment is not related to standard Formulation.
2.	Shirish Zope	22	1	Technical	As per clause 22 of IS :1293 table 19 the required withdrawal force of USB plug cannot be achieved in USB Socket because the construction of Plug and Socket is not the same as per IS : 1293 clause no. 13.	Withdrawal force should be defined as per IEC 62860 standard for respective type / construction of USB port.	The committee did not agree with the change proposed.
		23	1	Technical	For fixed type accessories :- Not applicable.	Tests parameters should be defined as per IEC 62860 standard for respective type / construction of USB port.	The committee did not agree with the change proposed.
		27	2	Editorial	Table 26 is not given in IS 1293 : 2019 where as for this clause Table 5 is given.	Additional items 13, 14 and 15 And foot note 'g' to be added in Table 5 of IS 1293 :2019	The committee agreed with the change proposed.

Comments received from Manak Manthan:

**2 - ETD 14/24538 - Socket-Outlets Incorporating USB Power Supply- Specifications(Comment received from CTBO)**

Sl	Clause No	Type of Comment	Comment	Propose Change	Decision of the committee.
1	CI 3.104	Editorial	SELV Definition in parent standard also (IS 1293 )	SLEV definition in present standard may be deleted	The committee did not agree with the change proposed
2	CI 101.2.7, 101.2.8	Editorial	Both clauses are same.	Both cluses are same. Hence, CI 101.2.8 may be deleted and subsequent cluases may be renumbered	The committee agreed with the change proposed.
3	CI 22	Technical	Specific requirements of force that is necessary to disconnect the USB cable from port are not available	Specific requiremnets for force that is necessary to disconnect the USB cable from port may be given or cross reference may be given for corresponding IEC/IS Standards.	The committee did not agree with the change proposed
4	Table 101	Editorial	CI reference of the last column given as 101 instead of 103	CI referecne in the last coloumn may be changed to 103	The committee agreed with the change proposed.
5	24.101.4	Editorial	Impact Test — In last Sl.No iii may be given instead of Condition A	In last Sl.No iii may be given instead of Condition A	The committee agreed with the change proposed.
6	CI 27	Editorial	Refrence to table 27 was given, but same is not available	Reference may be changed to table 5	The committee agreed with the change proposed.
7	CI 31	Editorial	Not mentioned the applicablity or non applicability of this cl	applicablity or non applicability of this cl 31 may be mentioned	The committee did not agree with the change proposed.
8	ETD 14 Doc. (24538)	Editorial	IEC standards cross reference was given in the draft at all places	IEC standard cross reference may be replaced with corresponding IS reference, wherever available	The committee agreed with the change proposed
9	CI 7.2	Technical	classification of Socket-Outlets Incorporating USB Power Supply not available	classification of Socket-Outlets Incorporating USB Power Supply may be incorporated	The committee discussed that there may be classifications specifically for socket outlets incorporating USB. It was decided to wide circulate the document again for 15 days.  The committee members were requested to review the document thoroughly with respect to any

					additional classifications required or any other changes/additions required in this document before finalization.
--	--	--	--	--	---

**ANNEXURE -2**  
**COMMENTS RECEIVED FROM MANAK MANTHAN**

**1 - ETD 14/22795 - Specification for Fittings for Rigid Non-Metallic Conduits(NOBO)**

Sl	Clause No	Type of Comment	Comment	Propose Change	Decision of the committee
1	1.2	General	Slip type of coupling bends has no market base and also license not manufacturing this type of bend as its size is very long.	Committee may remove this fitting	The committee did not agree with the change proposed.
2	Table 7, Short Bends	Editorial	i) Positive side of tolerance should be zero and negative side should not be more than 0.3mm in outside diameter of bend (d1). ii) Column for Minimum Wall thickness to be added like Table 2,8,9 etc, where Minimum inside diameter of bend (d2 min ) to be recalculate.	Minimum wall thickness 1.2, 1.4, 1.6, 1.9, 2.2, 2.5 mm for respectively conduit fitting of nominal size of 16, 20, 25, 32, 40, 50mm and according Minimum inside diameter of bend (d2 min ) adjusted.	<ul style="list-style-type: none"> <li>The committee did not agree with the change proposed at Sl. No i)</li> <li>The committee discussed the change proposed at Sl. No. ii) .It was decided that the minimum wall thickness of the conduits from which the short bends are to be manufactured to be mentioned.</li> </ul>
3	Table 13,14,15,16,17	Editorial	New varieties to be added as used in the market	i) Nominal size of 32, 40, 50mm varieties to be added. ii) Collar details to be added	The committee agreed with the change proposed

**IS 3419 : 1988 - Specification for Fittings for Rigid Non - Metallic Conduits (Comments from AHBO)**

Sl	Clause No	Type of Comment	Comment	Propose Change	Decision of the committee
1	4.1	Technical	In the standard, it has been mentioned that the type tests on fittings shall not be commenced before 10 days after manufacture. It may lead to accumulation of stock in the unit and	As proposed, the time should be 48 hours instead of 10 days.	The committee agreed with the change proposed

			may hinder further manufacturing process.		
2	Table 5, Normal type bends	Technical	Normal type bends are basically used to fit couplers and giving positive tolerance may lead to problem of interference fit with socket. Since in the OD of conduits as per IS 9537 (Part 3), only negative tolerance is permitted.	hence the tolerance in the normal type bends should be inline with the corresponding OD tolerance permitted in IS 9537 (Part 3)	The committee agreed with the change proposed
3	Table 6, slip type couplin g bends	Technical	The tolerance level has been increased from the previous standard. It will lead to significant variations in thickness of the coupling. There was no positive tolerance earlier.	the tolerances given in the outside diameter of Bend (d1) could be maintained at max 0.5 mm(positive or negative)	The committee agreed with the change proposed .The Minimum Thickness to be specified.
4	Table 13, Spout Type Circular Boxes	Technical	The B min. has been reduced for sizes 16 mm and 25 mm, which may lead to loss of strength and breakage.	The B min. should be as per the previous standard.	The committee did not agree with the change proposed.
5	11.1 & 11.2	Editorial	The text in both the clauses are repeated.	The clause should be same as the previous standard. 11.1 Fittings and components shall be self extinguishing. Compliance shall be checked by the test specified in 11.2.	The committee agreed with the change proposed
6	11.2 5th para 3rd line	Editorial	10 mm is mentioned in place of 100 mm mentioned in the previous standard	Could be same as 100 mm	The committee agreed with the change proposed
7	15.1 first line	Editorial	Sample dimensions is mentioned in place of external dimensions	could be replaced with external dimensions	The committee agreed with the change proposed
8	15.3	Editorial	The text 'neither the strip nor the sample shall show any sign of penetration of oil. Upon visual examination, the strip shall show no sign of cracking or splitting.' is repeated in 15.4	The text in 15.3 to be corrected as - 'The external diameter of the sample ( the external dimensions in case of boxes ) shall be measured and shall not differ by more than 5 0 percent from the value of the first measurement (see 15.1).'	The committee agreed with the change proposed
9	Table 10 Samplin g scheme, Sl. no. v) and vi)	Editorial	The lot size to be corrected for sl. no. v) and vi)	The lot size should be 1001 to 3000 in sl. no. v) and 3001 and above in sl. no. vi)	The committee agreed with the change proposed



### ANNEXURE -3

#### Comments on Published standards received from Manak Manthan

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

Sl	Clause No	Type of Comment	Comment	Propose Change	Received From	Decision of the committee
1	12.2.8	Technical	As per Cl 12.2.8, flexible cable may also be permitted for torque test.	Most of the switches has flexible cable connection.	<b>SUBO</b>	The committee <b>did not agree</b> with the change proposed.
2	12.2.7	Technical	In table-8, 3rd column under S.No 3: 1X2.78 may be replaced as 1X1.78 as per old standard.	As per old standard, it may be considered.		The committee <b>agreed</b> with the change proposed
3	19.3	Technical	In table-22, column 2,3,4 and 5 may be mentioned in detail.	In table-22, there is no clear clarity on distribution system under column 2,3,4 and 5 as name of heading under those columns are same.		The committee <b>agreed</b> with the comment. It was decided to remove column No. 4, 5 and 7 from table 22 of IS 3854:2023.
4	Cl 3.38 Self-ballasted Lamp SBL (NOTE)	General	It was suggested that, in (c) point of NOTE (Cl 3.38 Self-ballasted Lamp SBL), more clarification is needed for definition/meaning of 'i'.	Exact meaning of 'i' can be more clearly defined.	<b>MUBO-II</b>	The committee <b>did not agree</b> with the change proposed
	Cl 8.4 Marking on Terminals for Phase Conductors	Technical	It was suggested that, specifically in one way switches, there is a lot of confusion and query regarding what to mark for terminal 2, either L or L1 so more detailed clarification is needed for marking or else, a well explanatory diagram describing the method of marking either L, or L1 etc. can be provided in this clause of IS.	Marking of L, L1 or L2 should be more clearly defined to avoid the confusion or else a well explanatory diagram describing the exact method of marking can be given.		The committee <b>did not agree</b> with the change proposed

	Clause 19.3 Table 22 Values for I <sub>peak</sub> and I <sub>2t</sub> Depending on the type of Distribution System	Technical	Column 6 & 7, both are same, only values are different hence, clarification is needed for the same.	More clarification required for the different values in same columns (Column 6 & 7)		The committee <b>agreed</b> with the comment. It was decided to remove column No. 4, 5 and 7 from table 22 of IS 3854:2023
	Cl 20.5.2 Verification of the Non-removal of Covers, Cover Plates or Actuating Members Point a) & b)	Technical	Points (a) & (b) are mentioned for which products has to be clearly mentioned.	Which Products are applicable for Points (a) & (b) should be clearly mentioned.		The committee <b>did not agree</b> with the change proposed
	Annex D, Point 3 Electric Strength (Flash test) (Cl. 16.3) PRODUCT MANUAL FOR SWITCHES FOR DOMESTIC AND SIMILAR PURPOSES — SPECIFICATION (THIRD REVISION) ACCORDING TO IS 3854 : 2023 Document No - PM/IS 3854/3/January 2024	Technical	In Cl 16.3 Electric Strength Test of Revised IS 3854:2023, Flash test is not mentioned but it is mentioned in Annex D Point 3 of Revised Product Manual hence it was suggested that it has to be removed from Point 3 of Annex D of Revised Product Manual as well because it leads to confusion amongst the licensees.	Mentioning of "flash test" can be removed from Point 3 of Annex D of Revised Product Manual.		The comment is not relevant with respect to IS 3854. It is a comment on the product Manual which needs to be taken up with CMD Department, BIS

**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 )**

Sl	Clause No	Type of Comment	Comment	Propose Change	Received From	Decision of the committee
1	Reconsider of 10A	General	A key change to the Standard revision is the phasing out of the plugs that were earlier (IS 1293:2005) rated at 10A, 230V sharing the same	Want to include 10 A Rated Socket and plug due to high market demand.	<b>PRBO</b>	The committee <b>did not agree</b> with the change proposed

			dimension with that as rated 6A, 230V. The proposed revised standard IS 1293:2019 disallows the usage of plugs having 10A, 230V rating. We understand that the new plug mandated by the proposed revised 2019 standard for equipment operating from 6A to 16A has a bigger plug and pin dimensions that wouldn't fit into the 6A sockets that most of the India households		
2	Portable socket Outlet	General	separate wide circulation circulated for portable Socket outlet. And major changes in this standard are of portable socket outlet. Please clarify that this will be cover in separate IS or in IS 1293:2019.	Please clarify that this will be cover in separate IS or in IS 1293:2019.	The committee <b>did not agree</b> with the change proposed

**ANNEXURE – 4**

**6.2 REVIEW/REAFFIRMATION:**

**Due 2023-24:**

S. NO	IS No.	Title	Mode of execution	Degree of Equivalence	IEC Details	Latest IEC	Decision Taken by the committee.
1	<u>IS 9537 (Part 8) : 2003</u>	Conduits for electrical installations - Specification: Part 8 rigid non - Threadable conduits of aluminium alloy	Proposed R and D	Modified/Technically Equivalent			---
2	<u>IS 16783 : 2018</u>	Cable Cleats for Electrical Installations		Identical Under Dual Numbering	IEC 61914 : 2015	IEC 61914:2021	The committee decide to take up the revision of the existing standard in line with the latest IEC standard i.e IS 61914:2021.  It was decided to circulate the revised IEC standard as P-Draft for review and

							comments by the committee members. Meanwhile the standard IS 16783 : 2018 may be reaffirmed till the revised standard gets published.
3	<u>IS 10276 (Part 1) : 1982</u>	Specification for edison screw lamp holders: Part 1 requirements and tests	Final Stage of Printing				---
4	<u>IS 10276 (Part 2) : 1982</u>	Specification for edison screw lampholders: Part 2 standard data sheets for lampholders and gauges	Final Stage of Printing				---
5	<u>IS 3324 : 1982</u>	Specification for holders for starters for tubular fluorescent lamps (First Revision)	Proposed Archiving				---
6	<u>IS 17039 : 2018</u> <u>IEC 61316 : 1999</u>	Industrial Cable Reels		Identical Under Dual Numbering	IEC 61316 : 1999	IEC 61316:2021	The committee decide to take up the revision of the existing standard in line with the latest IEC standard i.e. IEC 61316:2021 It was decided to circulate the revised IEC standard as P-Draft for review and comments by the committee members. Meanwhile the standard IS 17039 : 2018 may be reaffirmed till the revised standard gets published.
7	<u>IS 1293 : 2019</u>	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)		Modified/Technically Equivalent			---

S. NO	IS No.	Title	Mode of execution	Degree of Equivalence	IEC Details	Latest IEC	Decision Taken by the committee.
1	<u>IS 14768 (Part 1) : 2000</u>	Conduit fittings for electrical installations - Specification: Part 1 general requirements	--	Modified/Technically Equivalent			
2	<u>IS/IEC 60669-2-2) : 2006</u>	Switches for Household and Similar Fixed Electrical Installations Part 2 Particular Requirements Section 2 Electromagnetic remote-control switches ( RCS )	--	Identical under single numbering	IEC 60669-2-2 : 2006	IEC 60669-2-2:2024	The committee decide to take up the revision of the existing standard in line with the latest IEC standard i.e. IEC 60669-2-2:2024 It was decided to circulate the revised IEC standard as P-Draft for review and comments by the committee members. Meanwhile the standard IS/IEC 60669-2-2 : 2006 may be reaffirmed till the revised standard gets published.
3	<u>IS/IEC 60998-1 : 2002</u>	Connecting Devices for Low-Voltage Circuits for Household and Similar Purposes Part 1 General Requirements	--	Identical under single numbering	IEC 60998-1:2002	IEC 60998-1:2002 (Not Revised)	It was discussed that the standard is identical to the latest IEC standard on the subject. In view of the above it was decided to reaffirm the standard.
4	<u>IS/IEC 61537 : 2006</u> <u>IEC 61537 : 2006</u>	Cable Management - Cable Tray System and Cable Ladder System	--	Identical under single numbering	IEC 61537 : 2006	IEC 61537:2023	The committee decide to take up the revision of the existing standard in line with the latest IEC standard i.e. IEC 61537:2023 It was decided to circulate the revised IEC standard as P-Draft for review and comments by the

							committee members. Meanwhile the IS/IEC 61537 : 2006 may be reaffirmed till the revised standard gets published.
5	<u>IS 11037 : 2019</u>	Electronic Type Fan Regulators — Specification ( First Revision )	--	Indigenous			---
6	<u>IS 371 : 1999</u>	Ceiling roses - Specification (Third Revision)	Intern	Indigenous			The standard is already being taken up for revision. It was decided to reaffirm the standard till the revised standard get published.
7	<u>IS 9537 (Part 6) : 2000</u>	Conduits for electrical installations - Specification: Part 6 pliable conduits of metal or composite materials	R and D	Modified/Technically Equivalent			---