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BUREAU OF INDIAN STANDARDS

MINUTES

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Electrical Appliances Sectional Committee, ETD 32	42 nd	Tuesday	04 June 2024	10:00 A.M	Lal C Verman Hall, Manak Bhawan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Chairman: Shri Atul Gupta, CEO Certification/Scientist 'G', STQC Directorate, MeitY

Member Secretary: Shri Tushar Sharma, Scientist-D, BIS

List of participants is enclosed at **Annex – 1**.

Item 0 GENERAL

0.1 WELCOME AND OPENING REMARKS BY THE CHAIRMAN

Shri Tushar Sharma, Member Secretary ETD 32 welcomed everyone, and introduced Shri Atul Gupta as the new chairperson of the committee. He thanked everyone for participating in the meeting. He briefed the members on the various issues to be deliberated upon during the meeting and requested active participation of the members in the deliberations on various issues covered in the agenda.

Shri Atul Gupta, Chairperson, thanked and welcomed all the participants present in the meeting. He highlighted the critical importance of the committee and requested the committee members to have thorough but brief discussion on each and every agenda point to arrive at useful conclusions and resolve the issues.

Shri A K Maharana, Head (ETD), extended a warm welcome to the committee members. Highlighting the latest reforms in standardization, he informed the members that robust participation is vital to sustain their committee membership, especially with respect to comments on P-drafts. He also mentioned action research projects and R&D projects as the new cornerstones for reviewing Indian Standards, unless sectional committee takes a conscious call on the lack of their necessity. Head (ETD) request the members to adhere to time frames in development of standards, as well as to look into possibilities of swift harmonisation of Indian Standards with IEC standards, to bridge gaps between the two. He also requested members to identify suitable experts for ETD 32 so that diversity of stakeholders within the committee is maintained. Finally, he thanked Shri Gupta for accepting the Chairpersonship of ETD 32 and taking time out of his busy schedule to chair this meeting.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 There being no comments, the minutes of the last meeting (41st meeting) of Electrical Appliances Sectional Committee, ETD32 held Online on 08-11-2023, were confirmed.

Item 2 COMPOSITION OF ELECTRICAL APPLIANCES, SECTIONAL COMMITTEE, ETD 32

2.1 Committee noted the information given in the agenda. It was decided that the organizations may share the updated nomination through email wherever updating is required.

2.2 Committee noted the information given in the agenda.

2.3 Co-option request of Narayana Engineering College, Nellore, was accepted by the committee. Co-option requests of V-Guard Industries Ltd. and Franke Faber India Pvt Ltd have been deferred by the committee, to be considered in the next meeting.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETINGS

Sl. No.	Item No. of last minutes	Item	Decision taken in the previous meetings	Action Taken/Proposed	Decision of the committee
1.	3.2 a.	Revision of IS 1416: 1972 -- Specification for stationary, portable single phase safety transformers with extra low output voltage with a rated supply voltage not exceeding 250 V and a rated output not exceeding 5 kVA.	The committee requested the Member Secretary to inquire with the ETD16 Sectional Committee on Transformers regarding the inclusion of the subject within the scope of ETD 16. The committee will make a decision on the Terms of Reference (ToR) for the next meeting based on the feedback received from ETD 16.	ETD 16 sectional committee, in its 32 nd meeting held on 04-04-2024, decided to refer the ToR on IS 1416:1972 to ETD 32 since the standard pertains to ETD 32. The ToR is placed at Annex-16 of the agenda for consideration of the committee.	It was decided to withdraw the ToR as well as this standard as Transformer Sectional Committee, ET 16 had published IS 61558(Part 2/Sec 6):1997 Safety of power Transformers, power supply unit and similar: Part 2 particular requirements, Section 6 Safety Isolating transformers for general use, which covers the requirements specified in IS 1416.
2.	3.2 b.	Revision of IS 2268: 1994--	Shri Satish Kumar from UL India Ltd	The draft has not yet been submitted	It was decided that the standard is not to be

		Electrical call bells and buzzers for indoor use - Specification.	has volunteered to revise this standard and provide the draft in accordance with the latest IEC standard. As a result, the committee has recommended not to proceed with the R&D project at this moment.	by Shri Satish. Further, the standard is proposed to be archived.	archived. UL India to submit draft for revision within 1 month.
3.	3.2 c.	Validation of New methodology of Endurance Testing of motors in IS 4250 “Specification For Electric Food – Mixers (Liquidizers And Grinders) & Centrifugal Juicers” and also suggest methodology for endurance testing of blades, couplers etc used in food mixers.	The committee considered and approved the Terms of reference (ToR) of this R&D project	Proposals received against the project did not qualify	It was decided to withdraw the ToR. Central Lab, BIS will take up the validation exercise.
4.	3.2 d.	Revision of IS 3588: 1987 -- Specification for electric axial flow fans.	The committee considered and approved the Terms of reference (ToR) of this R&D project	Proposals received for the project are under examination by Research Evaluation Committee	Committee noted the information.
5.	3.2 f.	Revision of IS 4327: 1967 -- Specification for electric fans and regulators for use in ships	The committee considered and approved the Terms of reference (ToR) of this R&D project	Proposals received against the project did not qualify. The project has been proposed to be re-hosted.	Committee agreed on re-hosting the project.
6.	3.2 g.	Revision of IS 4894 :1987 --	The committee considered and	Proposals received for the project are	Committee noted the

		Specification for centrifugal fans	approved the Terms of reference (ToR) of this R&D project	under examination by Research Evaluation Committee	information.
7.	3.2 h.	Revision of IS 5159: 1969 -- Specification for mains-Operated electric shavers.	The committee considered and approved the Terms of reference (ToR) of this R&D project	The project has been awarded to Dr Vinay Pratap Singh, MNIT, Jaipur and his team	Committee noted the information.
8.	3.2 j.	Revision of IS 14144 :1994 -- Specification for Electric coffee makers	The committee considered and approved the Terms of reference (ToR) of this R&D project	Proposals received against the project did not qualify	It was decided to withdraw the ToR. Intern in BIS is working on the revision of this IS.
9.	3.2 k.	Study the effect of air temperature and air Flow on human hairs for the Revision of IS 7154:1994- Hair Dryer Performance Standard.	The committee considered and approved the Terms of reference (ToR) of this R&D project	Proposals received against the project did not qualify. The project has been proposed to be re-hosted.	It was decided to withdraw the ToR. Revision of this IS based on IEC standard will be taken up.
10.	3.1.1 (39 th meeting)	ETD 32 (17877) (IS 302-2-2) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	During the 39 th meeting of ETD 32, committee finalized the document for printing as no comments were received. Also, Latest IEC 60335-2-2: 2019 was Wide circulated on 20-04-2023.	The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.

11.	3.1.2 (39 th meeting)	ETD 32 (17858) (IS 302-2-4) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	During the 39 th meeting of ETD 32, committee finalized the document for printing as no comments were received. Also, Latest IEC 60335-2-4:2021 Wide circulated on 20-04-2023.	The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0	Decision on this document deferred for next meeting.
12.	3.1.4 (39 th meeting)	ETD 32 (17878) (IS 302-2-6) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges Hobs Ovens and Similar Appliances	During the 39 th meeting of ETD 32, committee finalized the document for printing. Also, Latest IEC 60335-2-6: 2018 (Ed. 6.1) Wide circulated on 03-04-2023 with Doc No ETD 32 (22186).	Document dropped as the committee decided to revise the IS as per latest IEC standard.	Committee noted the information.
13.	3.1.3 (39 th meeting)	ETD 32 (17880) (IS 302-2-7) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7 Domestic Electric Clothes Washing Machines	During the 39 th meeting of ETD 32, committee finalized the document for printing. Also, Latest IEC 60335-2-7:2019 Wide circulated on 20-04-2023.	IS 302 : Part 2 : Sec 7 : 2024 has been published in January 2024. The committee may note.	Committee noted the information.
14.	3.1.6 (39 th meeting)	ETD 32 (17882) (IS 302-2-9) Safety of household and	During the 39 th meeting of ETD 32, committee finalized the	The document may be dropped as the same is not aligned with IEC 60335-1,	Decision on this document deferred for next meeting.

	ng)	similar electrical appliances part 2 particular requirements section 9 particular requirements for grills toasters and similar portable cooking appliances	document for printing. Also, Latest IEC 60335-2-9:2019 Wide circulated on 20-04-2023 with Doc no ETD 32 (22312)WC	Ed-6.0	
15.	3.1.5 (39 th meeting)	ETD 32 (17884) (IS 302-2-15) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	During the last meeting of ETD 32 , committee finalized the document for printing. Latest IEC 60335-2-15:2012+ AMD1:2016 +AMD2:2018 Wide circulated on 20-04-2023.	The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0	Decision on this document deferred for next meeting.
16.	3.1.7 (39 th meeting)	ETD 32 (16833) (IS 14155) Domestic Electric Clothes Washing Machines for Household Use Specification	It was decided to wide circulate the document incorporating the decisions of committee for a period of 15 days and to finalize the document for printing, with approval of chairman, in the absence of any technical comments during wide circulation.	Comments received had been considered, and finalized draft after approval had been sent for printing in October 2022. The standard is under advanced stage of printing. The committee may note.	Committee noted the information.
17.	3.2.3 (39 th meeting)	ETD 32 (19649) (IS 302-2-30) Safety of household and similar electrical	It was decided to finalize the document for printing as no comments were	Amendment No 3 (2023) to IS 302-2-30: 2007 was published in	Committee noted the information.

		appliances: Part 2 particular requirements: Sec 30 room heaters (First Revision) Amendment - 3	received.	August 2023. The committee may note.	
18.	6.1 (39 th meeting)	(ETD/32/21941) 'Household and similar electrical appliances – Accessibility of control elements, doors, lids, drawers and handles (Identical to: IEC 63008:2020)	Committee approved the document for printing.	IS/IEC 63008 : 2024 was printed in March 2024. The committee may note.	Committee noted the information.
19.	4.13 (40 th meeting)	Revision of IS 2082: 2018: Stationery storage type electric water heaters	It was decided that the draft standard will be discussed in the panel meeting.	A panel may be constituted for revision of the IS.	A panel for revision of IS 2082: 2018: Stationery storage type electric water heaters, was constituted with Shri P K Mukherjee as Convenor, and representatives of M/s Bajaj (Mr. Socratees C), M/s Racold (Mr. Abhijit Banshelkikar), M/s Havells (Mr. Brijesh Pratap Singh), M/s Venus (Mr. I. Ram Kumar), M/s Crompton Greaves (Mr. Manjunatha AR), M/s Orient Electric (Mr. Bharat Satija), ERDA (Mr. Rakesh Patel) and Consumer VOICE (Mr. H. Wadhwa) – as members, with a 3-month time frame to submit revised draft.

20.	10 (40 th meeti ng)	Proposal of transfer of IS 302 (Part 2/Sec 24) : 1994 'Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 24 refrigerators, food - Freezers and ice - Makers' to Mechanical Engineering Department of BIS.	Committee decided to transfer this standard to MED 03 sectional Committee as per the request received from the Mechanical Engineering Department (MED) of BIS.	The IS has been transferred to MED 03.	Committee noted the information.
21.	4.14 (40 th Meeti ng)	Standards on Dishwasher	It was decided that M/s BSH and M/s VOICE will provide revised draft standard within a period of 1 month.	Draft Document submitted is placed at Annex-17 of the agenda. The committee may discuss.	It was decided to circulate the document as P-draft for 1 month for comments.
22.	3.6 (40 th Meeti ng)	Review of IEC 60335 Series Standards	It was decided that a team of experts, as listed below, will thoroughly review the IEC 60335-1:2020 (6 th Edition) standard, as well as the corresponding Part 2 standards that are based on IEC 60335-1:2020 (6 th Edition). a. Representative from ERDA. b. Representative	The report has not been submitted by the constituted team. However, comments on IEC 60335-1:2020 (6 th edition) and those Part 2 Standards that are based on the 6 th Edition of IEC 60335-1 have been received from 2 team members - M/s Havells India Ltd. and M/s UL India. The same are placed at Annex-	In the absence of a report by the team, the comments given by M/s UL India and M/s Havells India Ltd. were discussed. Thereafter discussion was also held regarding adoption of drafts for revision of IS 302 (Part 1) and the IS 302 Part 2 sections, which are aligned with IS 60335-1:2020 (6 th edition). A consensual decision was taken by the committee

		<p>from M/s Philips.</p> <p>c. Representative from M/s Panasonic.</p> <p>d. Representative from M/s Havells Ltd.</p> <p>e. Representative from M/s Bajaj Ltd.</p> <p>f. Representative from M/s Crompton Greaves Ltd.</p> <p>g. Representative from M/s BSH Ltd.</p> <p>h. Representative from UL India Ltd.</p> <p>This team will submit a report on the technical issues related to India Specific changes required in the standards to be discussed in the Committee within a period of 3 months.</p>	<p>21 of the agenda.</p> <p>The committee may discuss.</p>	<p>members that drafts for revision of IS 302 (Part 1) and the IS 302 Part 2 sections, which are aligned with IS 60335-1:2020 (6th edition) and for which Wide Circulation had been done and comments have been settled, are considered as finalized and are to be taken up for printing. Member secretary was authorised by the committee to make editorial changes in the finalized documents.</p> <p>Please see Item 4.1 to 4.8 of the minutes.</p>
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Item 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION

Sl. No.	Doc. No.	Title	Remarks	Decision of the committee
1.	(ETD/32/22184) Draft for Revision of IS 302: Part 1 (Identical to: IEC 60335-1: 2020)	Household and similar electrical appliances Safety Part 1: General requirements	Wide circulated on 03-04-2023. Comments received are placed at Annex-5 of the agenda	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.

2.	(ETD/32/22185) Draft for Revision of IS 302: Part 2: Sec 3 (Identical to: IEC 60335-2-3: 2022)	Household and similar electrical appliances Safety Part 2-3: Particular requirements for electric irons	Wide circulated on 03-04-2023. Comments received are placed at Annex-6 of the agenda	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
3.	(ETD/32/22403) Draft for Revision of IS 302: Part 2: Sec 8 (Identical to: IEC 60335-2-8:2022)	Household and similar electrical appliances Safety Part 2-8: Particular requirements for shavers hair clippers and similar appliances	Wide circulated on 03-05-2023. (No comments received)	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
4.	(ETD/32/22302) Draft for Revision of IS 302: Part 2: Sec 13 (Identical to: IEC 60335-2-13:2021)	Household and similar electrical appliances Safety Part 2-13: Particular requirements for deep fat fryers frying pans and similar appliances	Wide circulated on 20-04-2023. (No comments received)	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
5.	(ETD/32/22310) Draft for Revision of IS 302: Part 2: Sec 21 (Identical to: IEC 60335-2-21:2022)	Household and similar electrical appliances Safety Part 2-21: Particular requirements for storage water heaters	Wide circulated on 20-04-2023. Comments received are placed at Annex-7 of the agenda	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
6.	(ETD/32/22303) Superseding IS 302-2-46: 1993	Household and similar electrical appliances Safety	Wide circulated on 20-04-2023.	The committee finalized the document for printing after discussion. Member secretary

	(Identical to: 60335-2-42:2021)	Part 2-42: Particular requirements for commercial electric forced convection ovens steam cookers and steam-convection ovens	(No comments received)	was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
7.	(ETD/32/22308) Draft for Revision of IS 302: Part 2: Sec 59 (Identical to: 60335-2-59:2021)	Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers	Wide circulated on 20-04-2023. (No comments received)	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
8.	(ETD/32/22249) Superseding IS 302 (Part 2/Sec 201) : 2008 (Identical to: IEC 60335-2-74: 2021)	Household And Similar Electrical Appliances Safety Part 2-74: Particular Requirements For Portable Immersion Heaters	Wide circulated on 03-04-2023. (No comments received)	The committee finalized the document for printing after discussion. Member secretary was authorised by the committee to make editorial changes in the finalized document. The committee also recommended a concurrent running period of 1 year.
9.	ETD/32/23559 IS 4250: 1980	Specification for Electric Food Mixers Liquidizers and Grinders Centrifugal Juicers Second Revision	Wide circulated on 13-09-2023. Comments received have been discussed in panel meetings dated 18-03-2024 and 03-04-2024. Draft for finalization is placed at Annex-18 of the agenda.	It was decided that finalization of the document to be kept in abeyance. Industry to submit clear information regarding their stand on provisions of Cl. 20.101 to 20.116 of IS 302-2-14. Final decision to be taken after the same.
10.	ETD 32 (24047)	Safety of household and similar electrical appliances: Part 2	Wide circulated on 09-11-2023. Comments received	Decision taken with reference to comments received is placed at Annex-2 . It was decided to finalize the

		particular requirements: Sec 23 appliances for skin or hair care (First Revision) Amendment - 1	are placed at Annex-8 of the agenda.	document for printing as no technical changes were made in the document. Member secretary was authorised by the committee to make editorial changes in the finalized document.
11.	(ETD/32/22294) Draft for Revision of IS 302: Part 2: Sec 2 (Identical to: IEC 60335-2-2: 2019)	Household and similar electrical appliances Safety Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
12.	(ETD/32/22296) Draft for Revision of IS 302: Part 2: Sec 4 (Identical to: IEC 60335-2-4:2021)	Household and similar electrical appliances Safety Part 2-4: Particular requirements for spin extractors	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
13.	(ETD/32/22186) Draft for Revision of IS 302: Part 2: Sec 6 (Identical to: IEC 60335-2-6: 2018 (Ed. 6.1))	Household and similar electrical appliances Safety Part 2-6: Particular requirements for stationary cooking ranges hobs ovens and similar appliances	Wide circulated on 03-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
14.	(ETD/32/22297) Draft for Revision of IS 302: Part 2: Sec 7 (Identical to: IEC 60335-2-7:2019)	Household and similar electrical appliances Safety Part 2-7: Particular requirements for washing machines	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.

15.	(ETD/32/22298) Draft for Revision of IS 302: Part 2: Sec 9 (Identical to: IEC 60335-2-9:2019)	Household and similar electrical appliances Safety Part 2-9: Particular requirements for grills toasters and similar portable cooking appliances	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
16.	(ETD/32/22299) Draft for Revision of IS 302: Part 2: Sec 11 (Identical to: IEC 60335-2-11:2019)	Household and similar electrical appliances Safety Part 2-11: Particular requirements for tumble dryers	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
17.	(ETD/32/22300) Draft for Revision of IS 302: Part 2: Sec 12 (Identical to: IEC 60335-2-12:2002+AMD1:2008 +AMD2:2017)	Household and similar electrical appliances Safety Part 2-12: Particular requirements for warming plates and similar appliances	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
18.	(ETD/32/22187) Draft for Revision of IS 302: Part 2: Sec 14 (Identical to: IEC 60335-2-14: 2019 (Ed. 6.1))	Household and similar electrical appliances Safety Part 2-14: Particular requirements for kitchen machines	Wide circulated on 03-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
19.	(ETD/32/22307) Draft for Revision of IS 302: Part 2: Sec 15 (Identical to: IEC 60335-2-15:2012+AMD1:2016 +AMD2:2018)	Household and similar electrical appliances Safety Part 2-15: Particular requirements for appliances for heating liquids	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.

20.	(ETD/32/22312) Draft for Revision of IS 302: Part 2: Sec 23 (Identical to: IEC 60335-2- 23:2016+AMD1:2 019)	Household and similar electrical appliances Safety Part 2-23: Particular requirements for appliances for skin or hair care	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
21.	(ETD/32/22315) Draft for Revision of IS 302: Part 2: Sec 24 (Identical to: 60335-2-24:2020)	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances ice- cream appliances and ice makers	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
22.	(ETD/32/22193) Draft for Revision of IS 302: Part 2: Sec 25 (Identical to: 60335-2-25: 2020 (Ed. 7.0))	Household and similar electrical appliances Safety Part 2-25: Particular requirements for microwave ovens including combination microwave ovens	Wide circulated on 03-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
23.	(ETD/32/22207) Draft for Revision of IS 302: Part 2: Sec 26 (Identical to: 60335-2-26:2008 (Ed. 4.1))	Household and similar electrical appliances- Safety Part 2-26: Particular requirements for clocks	Wide circulated on 03-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
24.	(ETD/32/22208) Draft for Revision of IS 302: Part 2:	Household and similar electrical appliances Safety	Wide circulated on 03-04-2023.	Decision on this document deferred for next meeting.

	Sec 30 (Identical to: 60335-2-30:2021 (Ed. 5.2))	Part 2-30: Particular requirements for room heaters	The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	
25.	(ETD/32/22314) Draft for Revision of IS 302: Part 2: SEC 31 (Identical to: IEC 60335-2- 31:2012+AMD1:2 016 +AMD2:2018)	Household and similar electrical appliances Safety Part 2-31: Particular requirements for range hoods and other cooking fume extractors	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
26.	(ETD/32/22295) Draft for Revision of IS 302: Part 2: Sec 32 (Identical to: 60335-2-32:2019)	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
27.	(ETD/32/22301) Draft for Revision of IS 302: Part 2: Sec 35 (Identical to: 60335-2- 35:2012+AMD1:2 016+AMD2:2020)	Household and similar electrical appliances Safety Part 2-35: Particular requirements for instantaneous water heaters	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
28.	(ETD/32/22305) Draft for Revision of IS 302: Part 2: Sec 45 (Identical to: 60335-2- 45:2002+AMD1:2 008+AMD2:2011)	Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
29.	(ETD/32/22309)	Household and	Wide circulated on	Decision on this document

	Draft for Revision of IS 302: Part 2: Sec 75 (Identical to: 60335-2-75:2012+AMD1:2015+AMD2:2018)	similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	deferred for next meeting.
30.	(ETD/32/22311) Draft for Revision of IS 302: Part 2: Sec 76 (Identical to: 60335-2-76:2018)	Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
31.	(ETD/32/22313) Draft for Revision of IS 302: Part 2: Sec 80 (Identical to: 60335-2-80:2015)	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	Wide circulated on 20-04-2023. The document may be dropped as the same is not aligned with IEC 60335-1, Ed-6.0.	Decision on this document deferred for next meeting.
32.	ETD/32/23639 IS 6365: 1971	Specification for Laboratory Electric Ovens- First Revision	Wide circulated on 25-09-2023. Comments received are placed at Annex-9 of the agenda	Decision taken with reference to comments received is placed at Annex-3 . It was decided to finalize the document for printing as no technical changes were made in the document. Member secretary was authorised by the committee to make editorial changes in the finalized document

Item 5 DRAFTS UNDER PREPARATION

Sl. No.	IS No.	Title	Remarks	Decision of the committee
1.	IS 5790 : 1985	Specification for domestic electric cooking ovens	Draft Document submitted is placed at Annex-19 of the agenda. The committee may discuss.	It was decided to circulate the document as P-draft for 1 month for comments.
2.	IS 11676 : 1995	Microwave ovens for household and similar purposes - Specification.	Draft Document submitted is placed at Annex-20 of the agenda. The committee may discuss.	It was decided to circulate the document as P-draft for 1 month for comments.

Item 6 COMMENTS ON PUBLISHED STANDARDS

Sl. No.	IS No.	Title	Remarks	Decision of the committee
1.	IS 302: Part 2: Sec 80: 2017	Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans	Comments received are placed at Annex-10 of the agenda.	The committee decided that IEC is to be asked whether bladeless fans are covered under the provisions of IEC equivalent standard of IS 302-2-80 Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans. Industry to give comments about which fans are not covered in the IS. The same will be reviewed before sending to certification department.
2.	IS 302 : Part 2 : Sec 23 : 2009	Safety of household and similar electrical appliances: Part 2	Comments received are placed at Annex-11 of the agenda.	Please see Item 4.10 of the minutes.

		particular requirements: Sec 23 appliances for skin or hair care		
3.	IS 8978 : 1992	Specification for electric instantaneous water heaters	Comments received are placed at Annex-12 of the agenda.	It was decided that M/s Crompton Greaves will provide the draft for revision of this standard within 1 month.
4.	IS 374 : 2019	Specification for electric ceiling type fans and regulators	Comments received are placed at Annex-13 of the agenda.	It was decided that the comment received is to be considered in the impending revision of IS 374.
5.	IS 302 (Part 2/Sec 7) : 2024	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 7 Domestic Electric Clothes Washing Machines	Comments received are placed at Annex-14 of the agenda.	Committee did not agree to the proposed change as the standard is already harmonised with international standard.

Item 7 PRESENT POSITION OF WORK OF ETD 32

7.1 Committee noted the information given in the agenda. It was decided that wherever feasible and deemed appropriate, revision of IS standards to be taken up in line with latest version of their IEC counterpart standards, wherever available after wide circulation and incorporating applicable comments wherever applicable.

7.2 Review of Standards - Taking up Revision of pre-2000 standards

Status of revision of pre-2000 published standards discussed during the meeting is given below:

SI No.	IS No.	Title	Decision taken during 40 th meeting of ETD 32	Status/Remarks	Decision taken by the committee
1.	IS 365 : 1983	Specification for electric hot plates (Second Revision)	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	To be archived	M/s Orient Electric to study its relevance, in light of publication of IS 19014 : 2022 Household Electric Cooking Appliances - Performance Requirements of Electric Hobs
2.	IS 366 : 1991	Electric iron - Specification (Fourth Revision)	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	Member(s) to update and provide the draft	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard within 3 months.
3.	IS 367 : 1993	Electric kettles and jugs for household and similar use - Specification (Fourth Revision)	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	Member(s) to update and provide the draft	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard within 3 months.
4.	IS 555 : 1979	Specification for electric table type fans and regulators (Third Revision)	It was decided that IFMA will provide the draft for revision of this standard in 3 months time.	Member to update and provide appropriate draft incorporating previous amendments etc.	It was decided that IFMA will provide the draft for revision of this standard within 1 month.
5.	IS 959 : 1994	Specification for electric soldering irons (Third Revision)	It was decided that IEEMA will provide the draft for revision of this standard in 3 months time.	To be archived	The committee decided to archive the standard.

6.	IS 1169 : 1967	Specification for electric pedestal type fans and regulators (First Revision)	It was decided that IFMA will provide the draft for revision of this standard in 3 months time.	Member to update and provide appropriate draft incorporating previous amendments etc.	It was decided that IFMA will provide the draft for revision of this standard within 1 month.
7.	IS 1287 : 1993	Electric toasters - Specification (Third Revision)	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	Member(s) to update and provide the draft	It was decided that M/s Philips , will provide the draft for revision of this standard within 2 months.
8.	IS 1415 : 1966	Specification for electric hand - Lamps (Revised)	It was decided to withdraw this standard as the requirement of this standard is covered in Requirements given in IS 10322(Pt 5/Sec 6):2013	It will be taken up in the upcoming meeting of ETDC in July 2024 for final decision.	Noted that it will be taken up in the upcoming meeting of ETD in July 2024 for final decision on withdrawal.
9.	IS 1416 : 1972	Specification for safety transformers (First Revision)	It was decided that ERDA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	It was decided to withdraw this standard as Transformer Sectional Committee, ET 16 had published IS 61558(Part 2/Sec 6):1997 Safety of power Transformers, power supply unit and similar: Part 2 particular requirements, Section 6 Safety Isolating transformers for general use.
10.	IS 2082 : 2018	Stationary storage type electric water heaters - Specification (Fifth Revision)	It was decided that the draft standard prepared by the panel will be discussed in the panel meeting.	A panel may be constituted for revision of the IS.	Please see item 3.19 of the minutes

11.	IS 2268 : 1994	Electrical call bells and buzzers for indoor use - Specification (Third Revision)	It was decided that Shri Anil Mehta, M/s Panasonic Ltd will provide the draft for revision of this standard .	To be archived	It was decided that M/s UL India will provide the draft for revision of this standard within 1 month.
12.	IS 2312 : 1967	Specification for propeller type AC ventilating fans (First Revision)	It was decided that IFMA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	It was decided that IFMA will provide the draft for revision of this standard within 1 month.
13.	IS 2994 : 1992	Electric stoves - Specification (Second Revision)	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	Member(s) to update and provide the draft	The committee decided to archive the standard.
14.	IS 2997 : 1964	Specification for air circulator type electric fans and regulators	It was decided that IFMA will provide the draft for revision of this standard	Member(s) to update and provide the draft	It was decided that IFMA will provide the draft for revision of this standard within 2 months.
15.	IS 3412 : 1994	Electric water boilers - Specification (Second Revision)	It was decided that M/s Venus Ltd will provide the draft for revision of this standard	To be archived	The committee decided to archive the standard.
16.	IS 3481 : 1966	Specification for electric portable lamp stands and brackets	It was decided to transfer this standard to ETD 23 sectional committee .	To be archived	The committee decided to archive the standard.

17.	IS 3588 : 1987	Specification for electric axial flow fans (First Revision)	It was decided that IFMA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	IFMA will check whether it can take up work for revision of this standard .
18.	IS 3963 : 1987	Specification for roof extractor units (First Revision)	It was decided that MED Department may be consulted for transfer of this standard .	Reply from MED is awaited	The committee noted that Reply from MED is awaited regarding transfer of this standard.
19.	IS 4250 : 1980	Specification for domestic electric food - Mixers (Liquidizers And Grinders) (First Revision)	It was decided that the draft standard prepared by the panel will be discussed in the panel meeting.	Comments received on WC have been discussed in panel meetings dated 18-03-2024 and 03-04-2024. Draft for finalization is placed at Annex-18 of the agenda.	Please see item 4.9 of the minutes.
20.	IS 4327 : 1967	Specification for electric fans and regulators for use in ships	It was decided that IFMA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	IFMA will check whether it can take up work for revision of this standard .
21.	IS 4894 : 1987	Specification for centrifugal fans (First Revision)	It was decided that IFMA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	IFMA will check whether it can take up work for revision of this standard .

22.	IS 6390 (Part 2) : 1992	Domestic electrical clothes washing machines - Specification: Part 2 requirements for tumbler dryers	It was decided that M/s BSH will provide the draft for revision of this standard .	Member(s) to update and provide the draft	It was decided that M/s BSH and M/s Consumer VOICE will provide the draft for revision of this standard within 3 months.
23.	IS 7154 : 1994	Mains operated electric hair dryers (First Revision)	It was decided that M/s Dyson will provide the draft for revision of this standard .	Member(s) to update and provide the draft	The committee decided that revision based on IEC standard will be taken up.
24.	IS 7603 : 1975	Specification for portable low speed food grinding machines	It was decided that a team of M/s Philips , M/s Havells and M/s Bajaj will provide the draft for revision of this standard in 3 months time.	Member(s) to update and provide the draft	It was decided that M/s BSH will provide the draft for revision of this standard within 3 months.
25.	IS 8506 : 1977	Specification for laboratory electrical resistance furnaces		To be archived	The committee decided to archive the standard.
26.	IS 8978 : 1992	Specification for electric instantaneous water heaters (Second Revision)	It was decided that M/s Crompton Greaves will provide the draft for revision of this standard .	Member(s) to update and provide the draft	It was decided that M/s Crompton Greaves will provide the draft for revision of this standard within 1 month.
27.	IS 11676 : 1995	Microwave ovens for household and similar purposes - Specification (First Revision)	It was decided that Shri P K Mukherjee will provide the draft for revision of this standard .	Draft Document submitted is placed at Annex-20 of the agenda. The committee may discuss.	It was decided to circulate the document as P-draft for 1 month for comments.

28.	IS 6272 : 1987	Specification for industrial cooling fans (Man Coolers) (First Revision)	It was decided that IFMA will provide the draft for revision of this standard .	Member(s) to update and provide the draft	IFMA will check whether it can take up work for revision of this standard .
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Item 8 INTERNATIONAL ACTIVITIES

8.1 Committee noted the information given in the agenda.

8.2 Committee noted the details of upcoming IEC TC 59 meetings in Germany. It was decided that Member Secretary to be invariably part of Indian Delegation to IEC meetings pertaining to ETD 32, including the upcoming meetings.

The committee also decided to upgrade India's membership from 'O' to 'P' in IEC SC59L – 'Small household appliances'.

Item 9 Annual Programme for Standardization for the year 2024-25

Committee noted the information given in the agenda.

Annual Programme for Standardization for the year 2024-25 as given at **Annex - 4** was approved by the committee.

Item 10 Indian Standard on "POLYMER COATED INNER TANKS FOR STORAGE WATER HEATER

Committee noted the information given in the agenda. The committee also noted that the document finalized for printing during the meeting, as revision of IS 302: Part 2/Sec 21: 2018, being identical to IEC 60335-2-21:2022, makes the inner tank/container construction compliance material independent.

Hence, it was decided that requirement of introducing polymer coating as material for inner tank/container of storage water heater, will be reviewed on publication of Indian Standard for the same by CHD.

Item 11 DATE AND PLACE FOR THE NEXT MEETING

Annual Calendar of Technical Committee meetings for ETD 32 as approved by the committee is as below:

- i. Date of 43rd meeting – 20th August 2024

ii. Date of 44th meeting – 20th November 2024

iii. Date of 45th meeting – 18th February 2025

Item 12 ANY OTHER BUSINESS

There being no further business, the meeting ended with a vote of the thanks to the chair.

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Annex - 1

List of participants

Si.No	Organization	Representative	Email
1.	Standardisation Testing and Quality Certification (STQC) Directorate, MeITY	Shri Atul Gupta (Chairperson)	atulgupta@stqc.gov.in
2.	Bureau of Indian Standards	Shri Tushar Sharma (Member Secretary)	eetd@bis.gov.in
3.	Bajaj Electricals Limited, Mumbai	Shri Chandra Veer Singh	chandras@bajajelectricals.com
4.	Bajaj Electricals Limited, Mumbai	Shri Socrates C	socrates.chandrasekaran@bajajelectricals.com
5.	BSH Household Appliances Manufacturing Private Limited, Chennai	Shri Balasubramanian Anand	anand.balasubramanian@bshg.com
6.	Bsh Household Appliances Manufacturing Private Limited, Chennai	Shri Loganathan Vijay Kumar	vijay.loganathan@bshg.com
7.	Central Electricity Authority, New Delhi	Shri RK Tiwari	cedpm.cea@gov.in
8.	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	Shri Anil Mehta	anil.mehta@in.panasonic.com
9.	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	Smt. Priya Singh	priyasingh@voltas.com
10.	Consumer Voice, New Delhi	Shri H Wadhwa	hswadhwa@gmail.com
11.	Crompton Greaves, Mumbai	Shri Manjunatha AR	manjunatha.ar@crompton.co.in
12.	Development Commissioner Micro-Small And Medium Enterprises	Shri S. Dharmaselvan	s.dharmaselvan@dcmsme.gov.in
13.	Dyson Technology India Pvt Ltd, Gurugram, Haryana.	Shri Shekh Tazimul Haque Faridi	shekh.faridi@dyson.com
14.	Electrical Research And Development Association, Vadodara	Shri Rakesh A Patel	rakesh.patel@erda.org
15.	Havells India Limited, Noida	Shri Diwan Singh Kholia	diwansingh.kholia@havells.com
16.	Havells India Limited, Noida	Shri Pawan Deep Singh	pawandeepp.singh@havells.com
17.	Havells India Limited, Noida	Shri Brijesh P Singh	brijesh.singh@havells.com
18.	In Personal Capacity	Shri P K Mukherjee	pkmukherjee09@yahoo.com
19.	Indian Fan Manufacturers Association	Shri Shailendra Singh	shailendra1.singh@havells.com
20.	Military Engineer Services, New Delhi	Shri Ram Kumar Param	rkparam@gmail.com

21.	National Federation Of Engineers For Electrical Safety	Shri Krish Theobald	krish@protegoplus.com
22.	Orient Electric Limited, New Delhi	Shri Bharat Satija	bhara.sajita@orientelectric.com
23.	Philips India Limited, Gurugram	Shri Pankaj Gupta	pankaj.gupta@versuni.com
24.	Racold Thermo Limited, Pune	Shri Abhijit Banshelkikar	abhijit.banshelkikar@ariston.com
25.	Racold Thermo Limited, Pune	Shri Ninad Shelar	ninad.shelar@ariston.com
26.	Samsung India Electronics Private Limited, New Delhi	Shri Saurabh Nag	saurabh.nag@samsung.com
27.	UL India Private Limited, Bengaluru	Smt. Pallavi Tripathi	pallavi.tripathi@ul.com
28.	UL India Private Limited, Bengaluru	Shri Richie Stephen	richie.stephen@ul.org
29.	Venus Home Appliances Private Limited, Chennai	Shri R. Murali Ganesan	murali@venushomeappliances.com
30.	Venus Home Appliances Private Limited, Chennai	Shri Ravi Nandan Pal	delhi.pd@venushomeappliance.com
31.	Whirlpool Corporation, Gurugram	Shri Abhijnan Dasgupta	abhijnan_dasgupta@whirlpool.com
32.	CMD-III (BIS)	Shri Peeyush Prakash	cmd3@bis.gov.in
33.	Directorate General (BIS), New Delhi	Shri A.K. Maharana (Head, ETD) (over VC)	eetd@bis.gov.in

Annex - 2

Document No. ETD 32 (24047)WC

Title: Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 23 appliances for skin or hair care (First Revision) Amendment - 1

Sl. No.	Name of the Organization	Clause/ Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change	Decision of the committee
1	CPRI	7.12	Substitute the following for existing: The instructions for portable appliances shall include the substance of the following: (b) for additional protection, the installation of a residual current device (RCD) having a rated residual operating current not exceeding 30 mA is advisable in the electrical circuit supplying the bathroom. Ask your installer for advice.	--	RCD may be part of the supply, as it may be difficult for the purchasers to arrange RCD, which may not be known until they unpack after purchase.	Include- RCD may be part of the supply	Committee did not agree to the change proposed.
2.	CPRI	7.12	The instructions for hair straighteners and curling irons shall include the substance of the following:		--	Modify sentence - Keep appliance out of reach of children	Committee did not agree to the change proposed.

			(a) burn hazard. Keep appliance out of reach from young children, particularly during use and cool down;				
3	Havells	1	-	Technical	Scope to be added with “foot care appliances”	<p>Addition: NOTE 101 — Examples of appliances that are within the scope of this standard are: - water filled foot care appliances without massage function;</p> <p>NOTE 106 A water filled foot care appliance with water jets is not considered to have a massage function.</p>	Committee did not agree to the change proposed.

4.	Havells	3.1.9	-	Technical	Terminology to be added	<p>3.1.9 The liquid container of water filled foot care appliances is filled with water at a temperature of 40 °C ± 2 °C in accordance with the instructions, and if no rated water capacity is specified in the instructions, it is filled with the maximum water capacity, and then loaded with an additional mass of 10 kg evenly distributed over an area of 100 mm x 300 mm.</p>	Committee did not agree to the change proposed.
5.	Havells	3.104	-	Technical	Definition to be added	<p>foot care appliance appliance for softening the feet skin or relaxing the feet</p>	Committee did not agree to the change proposed.

6.	Havells	6.1	-	Technical	Classification to be added for foot care appliances	Appliances shall be of one of the following classes with respect to protection against electric shock: – water filled foot care appliances shall be class II or class III;	Committee did not agree to the change proposed.
7.	Havells	7.12(a) of Draft	-	Editorial	To be deleted	This clause covered in cl. 7.12. Here it is repeated.	Committee agreed to the change proposed.
8.	Havells	7.12	5	Technical	Addition in cl. 7.12	The instructions for water filled foot care appliances shall include the substance of the following warnings: WARNING: This appliance is intended to be used under the feet of a sitting person.	Committee did not agree to the change proposed.

						<p>WARNING: If water leaks from the appliance, the appliance should no longer be used.</p> <p>WARNING: Persons insensitive to heat must be careful when using the appliance.</p>	
9.	Havells	10	1	Editorial	It is a typo error. Should be cl. 10, not 7.10	<p>(Page 4, clause 10) — Insert the following; This clause of part 1 is applicable except as follows: 10.1 Addition: The representative period for appliances incorporating PTC heating elements is 30 min. 10.2 Addition: The representative period for appliances</p>	Committee agreed to the change proposed.

						incorporating PTC heating elements is 30 min.	
10.	Havells	11.2	2	Technical	Addition	Hand-held appliances with an integral rest are also tested when placed on their rest away from the walls of the test corner.	Committee did not agree to the change proposed.
11.	Havells	11.8	3	Technical	Addition	The temperature rise of detachable curlers is not measured. The water temperature at the geometric centre of the water volume shall not exceed 50 °C.	Committee did not agree to the change proposed.
12.	Havells	15	2	Technical	Addition	15.2 Addition: Water filled foot care appliances are completely filled with the spillage solution and are then emptied	Committee did not agree to the change proposed.

						within 30 s by being tilted or overturned in the most unfavourable way.	
13.	Havells	21	3	Technical	Addition after “Hand-held appliances are also subjected to the test of 21.101”	Water filled foot care appliances are loaded as specified for normal operation but with the mass increased to 90 kg. The mass is applied for 30 s.	Committee did not agree to the change proposed.
14.	Havells	22	1	Technical	Addition	To avoid accidental contact with hot surfaces, the handle of curling irons and hair straighteners shall be clearly identified by tactile means, or colour or other visual means.	Committee did not agree to the change proposed.

15.	Havells	22	1	Technical	Addition	22.103 Hairdryers shall be fitted with a grid or similar protection means to limit the risk of hair being sucked into the air intake. Compliance is checked by inspection.	Committee did not agree to the change proposed.
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Annex - 3

Document No. ETD 32 (23639)

Title: Specification for Laboratory Electric Ovens- First Revision

Sl. No .	Name of the Organization	Clause/ Sub-Clause	Paragraph/ Figure/ Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change	Decision of the committee
1	EIE INSTRUMENTS PVT LTD	2	Table	General	DELETE IS 4984:1987 ADD IS/IEC 60898-1		Committee agreed to the change proposed. Reference of IS 4894 and IS/IEC 60898-1 to be added.
2	EIE INSTRUMENTS PVT LTD	6.3	Paragraph	Technical	The heating element shall be so designed and located that on both side of chamber for uniform heating.	Delete paragraph and add as commented	Committee did not agree to the change proposed.
3	EIE INSTRUMENTS PVT LTD	6.6	Paragraph	General	Mentioned 9.3.2-delete line	Delete point	Committee decided that the typographical error to be corrected – 10.3.2 to be mentioned instead of 9.3.2.

4	EIE INSTRUMENTS PVT LTD	7.2.1	Paragraph	Technical	Temperature rise of the external enclosure of the laboratory oven shall be between 40-50 c	Change temp range	Committee did not agree to the change proposed.
5	EIE INSTRUMENTS PVT LTD	7.4.1	Paragraph	Technical	Not require for lab oven	Delete clause	Committee did not agree to the change proposed.
6	EIE INSTRUMENTS PVT LTD	7.10	Paragraph	General	Add: alternatively paint or powder coating of suitable grade may be used with a minimum thickness of coating shall be 60 microns	Delete clause of 31 of IS 302-1	Committee did not agree to the change proposed.
7	EIE INSTRUMENTS PVT LTD	10.1.2	Paragraph	Technical	Delete 10.1.2 (o) Delete 10.1.2 (r)	Not applicable for lab oven	Committee did not agree to the change proposed.

8	EIE INSTRUMENTS PVT LTD	10.3.7	Paragraph	Technical	Not require for lab oven	Delete clause	Committee did not agree to the change proposed.
9	EIE INSTRUMENTS PVT LTD	Appendix A	Paragraph	Technical	Not require for lab oven	Delete clause	Committee did not agree to the change proposed.

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Annex - 4

ANNUAL PROGRAMME FOR STANDARDISATION OF ETD 32 FOR THE YEAR 2024-2025

S.No	Committee No	IS No/SUBJECT	NEW/REVISION	Mode of Execution
1.	ETD 32	Household and similar electrical appliances - Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines	NEW	SC
2.	ETD 32	Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances	NEW	SC
3.	ETD 32	Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	NEW	SC
4.	ETD 32	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	NEW	SC
5.	ETD 32	Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans	NEW	SC
6.	ETD 32	Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans	NEW	SC
7.	ETD 32	Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters	NEW	SC

8.	ETD 32	Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm	NEW	SC
9.	ETD 32	Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam	NEW	SC
10.	ETD 32	Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines	NEW	SC
11.	ETD 32	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers	NEW	SC
12.	ETD 32	Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters	NEW	SC
13.	ETD 32	Household and similar electrical appliances - Safety - Part 2-115: Particular requirements for skin beauty care appliances	NEW	SC
14.	ETD 32	Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines	NEW	SC
15.	ETD 32	Household and similar electrical appliances - Safety - Part 2-16: Particular requirements for food waste disposers	NEW	SC
16.	ETD 32	Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers	NEW	SC
17.	ETD 32	Household and similar electrical	NEW	SC

		appliances - Safety - Part 2-98: Particular requirements for humidifiers		
18.	ETD 32	Safety and Performance of Electrically operated toothbrushes for household and similar purposes	NEW	SC
19.	ETD 32	Household and similar electrical appliances Safety Part 2-42: Particular requirements for commercial electric forced convection ovens steam cookers and steam-convection ovens	NEW	SC
20.	ETD 32	Household And Similar Electrical Appliances Safety Part 2-74: Particular requirements for portable immersion heaters	NEW	SC
21.	ETD 32	IS 302 : Part 2 : Sec 202 : 1992 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 202 electric stoves	Revision	Intern
22.	ETD 32	IS 302 : Part 2 : Sec 204 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 204 electric water boilers	Revision	Intern
23.	ETD 32	IS 302 : Part 2 : Sec 11 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 11 tumbler dryers	Revision	SC (Latest IEC version)
24.	ETD 32	IS 302 : Part 2 : Sec 13 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 13 frying pans, deep fat fryers and similar appliances	Revision	SC
25.	ETD 32	IS 302 : Part 2 : Sec 201 : 2008 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 201 electric immersion water heaters	Revision	SC

26.	ETD 32	IS 302 : Part 1 : 2008 Safety of household and similar electrical appliances: Part 1 general requirements	Revision	SC
27.	ETD 32	IS 302 : Part 2 : Sec 21 : 2018 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 21 stationary storage type electric water heaters	Revision	SC
28.	ETD 32	IS 302 : Part 2 : Sec 26 : 2014 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 26 clocks	Revision	ARP
29.	ETD 32	IS 302 : Part 2 : Sec 2 : 1997 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 2 vacuum cleaners and water suction cleaning appliances	Revision	SC
30.	ETD 32	IS 302 : Part 2 : Sec 25 : 2014 Safety of household and similar electrical appliances: Part 2 Particular requirements: Section 25 Microwave ovens	Revision	ARP
31.	ETD 32	IS 302 : Part 2 : Sec 12 : 1993 Safety of household and similar electrical appliances - Specification: Part 2 particular requirements: Sec 12 warming plates and similar appliances	Revision	SC
32.	ETD 32	IS 302 : Part 2 : Sec 203 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 203 electric call bells and buzzers for indoor use	Revision	ARP
33.	ETD 32	IS 302 : Part 2 : Sec 32 : 1994 Safety of household and similar electrical appliances: Part 2 particular	Revision	ARP

		requirements: Sec 32 massage appliances		
34.	ETD 32	IS 302 : Part 2 : Sec 4 : 1993 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 4 spin extractors	Revision	SC (Latest IEC version)
35.	ETD 32	IS 302 : Part 2 : Sec 45 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 45 electric heating tools	Revision	ARP
36.	ETD 32	IS 302 : Part 2 : Sec 46 : 1993 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 46 electric steam cookers	Revision	SC
37.	ETD 32	IS 302 : Part 2 : Sec 59 : 1999 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 59 insect killers	Revision	SC
38.	ETD 32	IS 302 : Part 2 : Sec 76 : 1999 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 76 electric fence energizers	Revision	SC
39.	ETD 32	IS 302 : Part 2 : Sec 206 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 206 electric coffee makers	Revision	Intern
40.	ETD 32	IS 302 : Part 2 : Sec 207 : 1994 Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 207 electric hot plates	Revision	SC
41.	ETD 32	IS 1169 : 1967 Specification for electric pedestal type fans and	Revision	IFMA

		regulators		
42.	ETD 32	IS 2997 : 1964 Specification for air circulator type electric fans and regulators	Revision	IFMA
43.	ETD 32	IS 366 : 1991 Electric iron - Specification	Revision	M/s Philips , M/s Havells and M/s Bajaj + Intern
44.	ETD 32	IS 5161 : 1969 Specification for flexible electric heating pads for domestic use	Revision	ARP
45.	ETD 32	IS 6390 : Part 2 : 1992 Domestic electrical clothes washing machines - Specification: Part 2 requirements for tumbler dryers	Revision	M/s BSH + M/s Consumer VOICE
46.	ETD 32	IS 6446 : 1986 Specification for mica insulated heating elements	Revision	ARP
47.	ETD 32	IS/IEC 60730 : PART 1 : 1999 Automatic electrical controls for household and similar use : part 1 General Requirements	Revision	SC
48.	ETD 32	IS 4250 : 1980 Specification for domestic electric food - Mixers (Liquidizers And Grinders)	Revision	SC/Panel
49.	ETD 32	IS 368 : 2014 Electric immersion water heaters - Specification	Revision	Intern
50.	ETD 32	IS 369 : 2019 Household electric direct - Acting room heaters - Performance requirements	Revision	SC
51.	ETD 32	IS 374 : 2019 Specification for electric ceiling type fans and regulators	Revision	SC/Panel
52.	ETD 32	IS 2082 : 2018 Stationary storage type electric water heaters - Specification	Revision	Through WG/Panel
53.	ETD 32	IS/IEC 60730 : Part 2 : Sec 9 : 2011	Revision	SC

		Automatic Electrical Controls for Household and Similar Use Part 2 Particular Requirements Section 9 Temperature Sensing Controls		
54.	ETD 32	IS 13850 : 1993 Dish washing machine, heavy duty, ratchet type - Specification	Revision	SC
55.	ETD 32	IS 14144 : 1994 Electric coffee makers	Revision	Intern
56.	ETD 32	IS 1287 : 1993 Electric toasters - Specification	Revision	M/s Philips
57.	ETD 32	IS 367 : 1993 Electric kettles and jugs for household and similar use - Specification	Revision	M/s Philips , M/s Havells and M/s Bajaj + Intern
58.	ETD 32	IS 7154 : 1994 Mains operated electric hair dryers	Revision	Intern
59.	ETD 32	IS 365 : 1983 Specification for electric hot plates	Revision	M/s Orient Electric
60.	ETD 32	IS 2268 : 1994 Electrical call bells and buzzers for indoor use - Specification	Revision	M/s UL India
61.	ETD 32	IS 2994 : 1992 Electric stoves - Specification	Archived	
62.	ETD 32	IS 10436 : 1983 Specification for electric frying pans and deep fat fryers	Archived	
63.	ETD 32	IS 13368 : 1992 Method of centrifugal test for double inlet fans (Industrial Type)	Archived	
64.	ETD 32	IS 13588 : 1993 Spring - Operated impact - Test apparatus and its calibration - Specification	Archived	
65.	ETD 32	IS 13886 : 1993 Specification for bimetallic thermostats and thermal cutouts for use with electric iron	Archived	
66.	ETD 32	IS 1401 : 2008 Protection of persons and equipment by enclosures - Probes for verification	Archived	
67.	ETD 32	IS 14145 : 1994 Mains operated clocks specification	Archived	
68.	ETD 32	IS 302 : Part 2 : Sec 208 : 1994	Archived	

		Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 208 single walled baking ovens		
69.	ETD 32	IS 3412 : 1994 Electric water boilers - Specification	Archived	
70.	ETD 32	IS 3481 : 1966 Specification for electric portable lamp stands and brackets	Archived	
71.	ETD 32	IS 959 : 1994 Specification for electric soldering irons	Archived	
72.	ETD 32	IS 8506 : 1977 Specification for laboratory electrical resistance furnaces	Archived	

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