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BUREAU OF INDIAN STANDARDS

Draft AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Electrical Appliances Sectional Committee, ETD 32	38 th	Wednesday	28.07.2021	1030 hrs	Online

CHAIRMAN: Shri A K Rajput

MEMBER SECRETARY: Shri Sumit Bharadwaj

Item 0 GENERAL

0.1 OPENING REMARKS BY THE CHAIRMAN

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the last meeting (37th meeting) of Electrical Appliances Sectional Committee, ETD 32 held on 04 July 2019 held at BIS HQ, circulated vide BISDG letter no. ETD 32/A-2.37 dated 05 July 2019. No comments have been received.

Item 2 COMPOSITION OF ELECTRICAL APPLIANCES SECTIONAL COMMITTEE, ETD 32

2.1 The present composition of Electrical Appliances Sectional Committee, ETD 32 is given at **Annex-1**

The Committee may consider the participation status of the member organizations and review the composition. The Committee is also requested to give suggestions for improvement in participation status of the members.

2.2 The Committee is requested to identify and involve talent available in the country related to the scope of the committee and suggest methodology to involve them in the proceedings of the Committee.

Item 3 PROGRAMME OF WORK

3.1 The present position of work under ETD 32 is given at **Annex-2**.

3.2 Review of Published Standards for Revision/Reaffirmation

BIS has identified a list of Indian Standards (Older than 1985). The committee may review the list of standards and inform the committee if there are any latest standards available for the same or if they are relevant to present conditions.

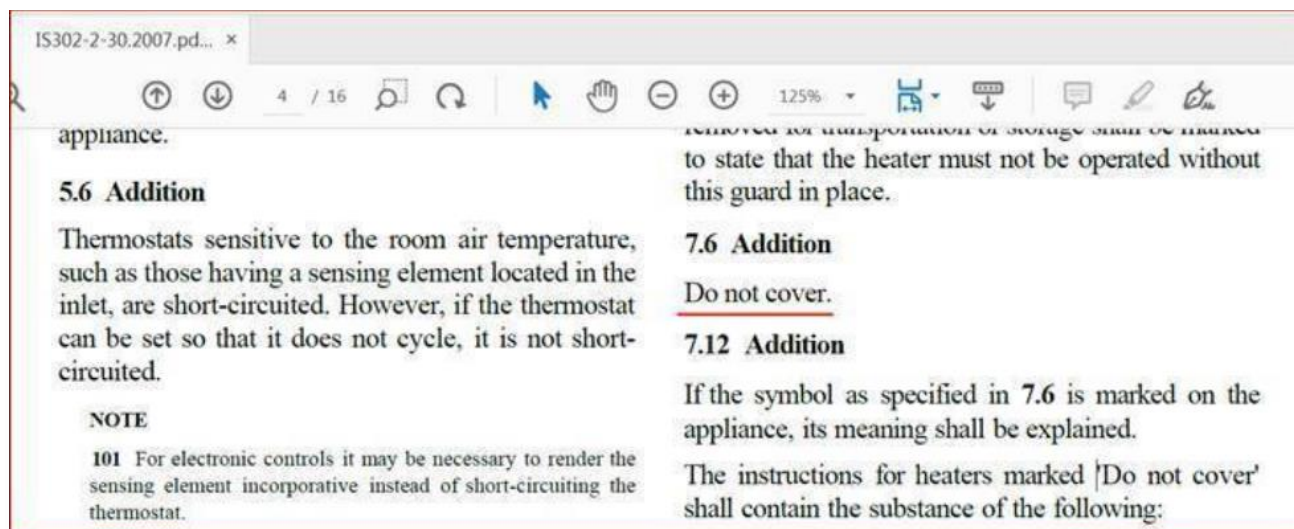
Item 4 APPROVALS OF DRAFT INDIAN STANDARDS FOR FINALIZATION

Sl. No.	Doc No	TITLE	Remarks
1	ETD 32 (15971) (IS 302-2-2)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	No comments received.
2	ETD 32 (15972) (IS 302-2-4)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	No comments received.
3	ETD 32 (15973) (IS 302-2-6)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges Hobs Ovens and Similar Appliances	Comments received from Bajaj are placed at Annex-3 .
4	ETD 32 (15974) (IS 302-2-7)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7 Domestic Electric Clothes Washing Machines	No comments received.
5	ETD 32 (15975) (IS 302-2-15)	Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	Comments received from Havells and MED, BIS are placed at Annex 4 & 5 respectively.
6	ETD 32 (16013) (IS 302-2-9)	Safety of household and similar electrical appliances part 2 particular requirements section 9 particular requirements for grills toasters and similar portable cooking appliances	No comments received.
7.	ETD 32 (16833) (IEC 60456)	Domestic electric clothes washing machines for household use specification	No comments received
8.	ETD 32 (16992)	Household electric cooking appliances performance requirements of electric hobs	No comments received

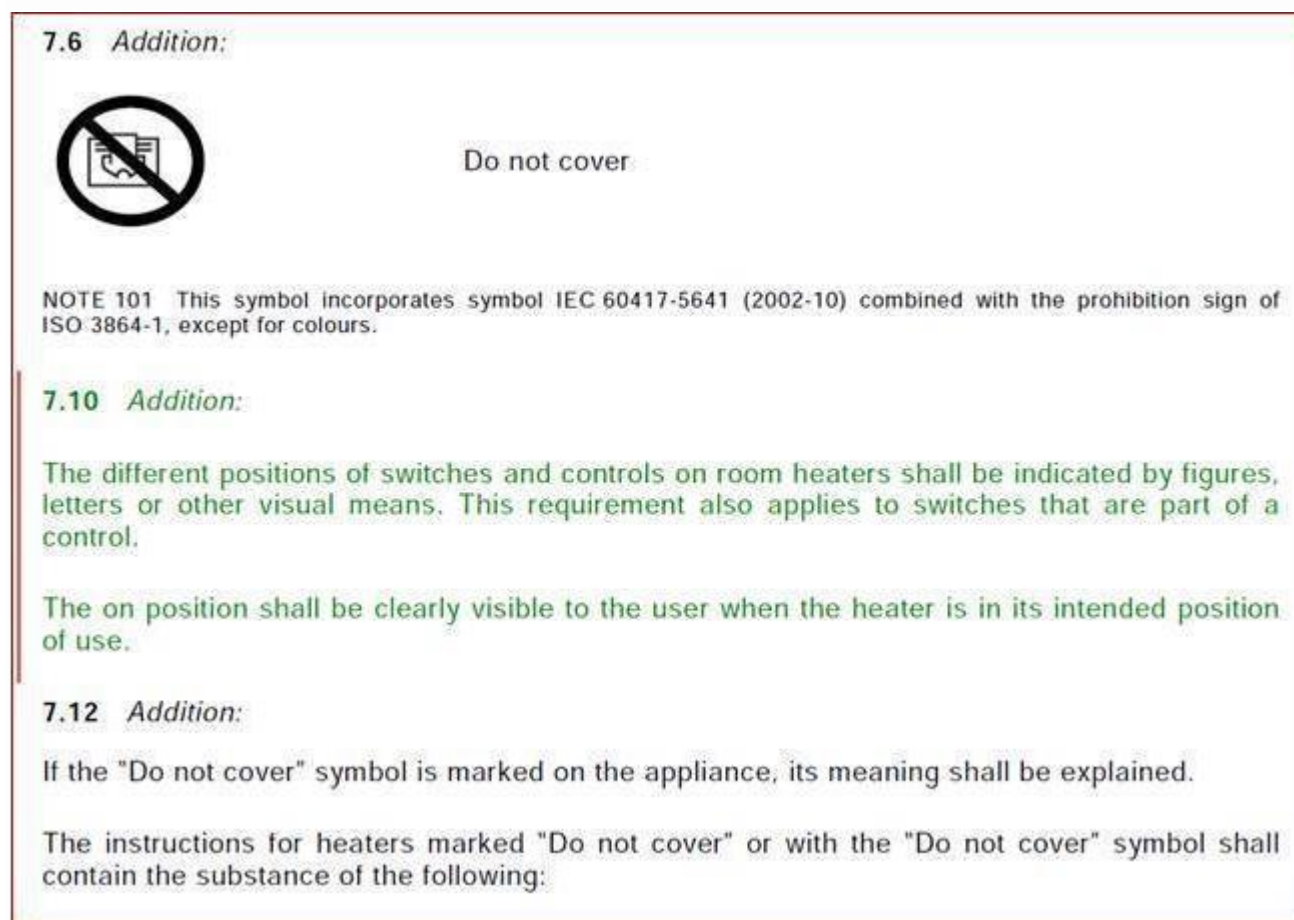
Item 5 COMMENTS ON PUBLISHED STANDARDS

5.1 IS 302-2-30

Comments received from Shri Shekh Faridi, Dyson
“clause 7.6 of IS 302-2-30 where the symbol has to be depicted but it seems that symbol was missed out during editing”.



Reference of IEC 60335-2-30 is attached herewith



5.2 IS 374

5.2.1. Comment is received from CETL, kakkalur Regarding testing of mechanical strength of ceiling fans.



5.2.2 Comments is received from IFMA on IS 374. In this regard, an amendment is drafted and is enclosed at Annex-6

5.3 Draft standards of IS 4250

To adequately address the shortcoming of the present test methods and to provide adequate reliability and durability from the consumer prospective, a draft is prepared by a working group is enclosed at Annex-7

The committee may consider.

Item 6 DATE AND PLACE FOR THE NEXT MEETING

Item 7 ANY OTHER BUSINESS

A request is received from the Department of Empowerment of Persons with Disabilities, Govt of India to include additional requirements in the relevant Indian standards that will help/assist the specially-abled persons under Accessible India Campaign (AIC).

An Email in this regard has been sent to all committee members enclosed at Annex-8

Committee may discuss.



Annex-1

S.No.	Organization	Member Name	Member Designation	Role
1	Central Electricity Authority, New Delhi	Shri Ashok Kumar Rajput	Chief Engineer (Research and Development Division), CEA	Chairperson
2	BSH Household Appliances Manufacturing Private Limited, Chennai	Shri Balasubramanian Anand	Product Approval Engineer	Alternate Member
3	BSH Household Appliances Manufacturing Private Limited, Chennai	Shri Madhanraj Ramalingam	Product Approval Specialist	Principal Member
4	Bajaj Electricals Limited, Mumbai	Shri Chandra Veer Singh	Sr. GM Quality Assurance	Principal Member
5	Bajaj Electricals Limited, Mumbai	Socratees C	Sr. Manager - Design Quality & Compliances	Alternate Member
6	Bajaj Electricals Limited, Mumbai	Anuj Mujumdar	Dy. Manager - Product Certification	Alternate Member
7	Bureau of Energy Efficiency, New Delhi	SH SAMIR PANDITA	Director	Principal Member
8	Bureau of Energy Efficiency, New Delhi	Shri Kamran Shaikh	Director	Alternate Member
9	Bureau of Energy Efficiency, New Delhi	Ms.Neha Kumari	Joint Director	Young Professional
10	CG Power and Industrial Solutions, Mumbai	shri Mayur Nadkarni	Sr Manager-Design - (T&QA)	Principal Member
11	CG Power and Industrial Solutions, Mumbai	Shri Anoop Singh	General Manager	Alternate Member
12	CG Power and Industrial Solutions, Mumbai	Shri Satyendra P. Singh		Alternate Member
13	Central Electricity Authority, New Delhi	Shri O.P. Suman	Dy. Director (DP &R)	Principal Member
14	Central Electricity Authority, New Delhi	Shri Omkishore	Assistant Director (DP & R)	Alternate Member
15	Central Power Research Institute, Bengaluru	Shri D. Venkatesh	Engineering Officer Gr. 2	Principal Member
16	Central Public Works Department, New Delhi	Shri A. K. Goel	SE(E)S&S	Alternate Member
17	Central Public Works Department, New Delhi	Shri Mukesh Vij	Chief Engineer (E) DR	Principal Member
18	Consumer Education and Research Centre, Ahmedabad	Ms. Shweta Mahajan	General Manager	Principal Member
19	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	Parkash Atam		Alternate Member
20	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	Ramesh Khanna	Executive Secretary	Alternate Member
21	Consumer Electronics and Appliances Manufacturers Association (CEAMA), Noida	J.K. Oberoi		Principal Member



22	Consumer Voice, New Delhi	Mr. B.K. Mukhopadhyay	Head technical	Alternate Member
23	Defence Research and Development Organization, Research Centre Imarat, Hyderabad	Prafulla Chandra	DSE/(TL-AC System Design)	Principal Member
24	Defence Research and Development Organization, Research Centre Imarat, Hyderabad	Suresh Chandra	ADE/Electrical (D)	Alternate Member
25	Defence Research and Development Organization, Research Centre Imarat, Hyderabad	A.K. Shukla		Alternate Member
26	Development Commissioner Micro-Small and Medium Enterprises	Shri S K Saini	Asstt. Director (E&E)	Alternate Member
27	Development Commissioner Micro-Small and Medium Enterprises	Shri Dhanendra Prasad	Asst. Dir. Gr-1 (Electrical)	Alternate Member
28	Development Commissioner Micro-Small and Medium Enterprises	Shri S.K. Saini	AD Gr-II (Electronics]	Alternate Member
29	Development Commissioner Micro-Small and Medium Enterprises	Dr. S.K. Sahoo	Deputy Director (Electrical)	Alternate Member
30	Dyson Technology India Pvt Ltd, Gurugram, Haryana.	Shekh Tazimul Haque Faridi		Principal Member
31	Electrical Research and Development Association, Vadodara	Shri Rakesh Patel		Principal Member
32	Electrical Research and Development Association, Vadodara	Dr. Vinod Gupta	Asst. Director & Head	Alternate Member
33	Electronics Regional and Test Laboratory (North), New Delhi	Manjula Bhati		Principal Member
34	Government of Gujarat (IW), Energy and Petrochemical Department, Gandhinagar	Shri Mishra N.J.	Electrical Inspector (QC)	Principal Member
35	Havells India Limited, Noida	Pramod Deshpande	Senior Manager	Alternate Member
36	Havells India Limited, Noida	Shri Diwan Singh Kholia	Deputy Gen Manager	Alternate Member
37	Havells India Limited, Noida	Rajeev Kumar Gupta	Senior General Manager,	Principal Member
38	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	S.K. Jain	Industrial Adviser	Principal Member
39	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	Shri Mohd.Zakaria Khan Yusuf Zai	ADO	Alternate Member
40	National Test House, Kolkata	Uma Bhakta	Scientist SD (Civil)	Principal Member
41	National Test House, Kolkata	Shri T. Roy Barman		Alternate Member
42	National Water Mission Department of Water Resources, RD and GR Ministry of Jal Shakti, New Delhi	Suneel Kumar Arora	Advisor, National Water Mission	Principal Member
43	Petroleum Conservation Research Association, New Delhi	Surendra Pratap	Director (R & D)	Principal Member



44	Petroleum Conservation Research Association, New Delhi	Shri M P Bangwal		Principal Member
45	Petroleum Conservation Research Association, New Delhi	Shri P K Purkayashtha	Additional Director (R&D)	Alternate Member
46	Philips India Limited, Gurugram	Vivek Sharma		Alternate Member
47	Philips India Limited, Gurugram	L.A. Kulkarni	Manager (Desn & Devt)	Principal Member
48	Philips India Limited, Gurugram	P.V. Kotasthane	Manager (Q&BI)	Alternate Member
49	Racold Thermo Limited, Pune	Ms. Trishala Chougule	Sr. Engineer QA, Ceritification	Alternate Member
50	Racold Thermo Limited, Pune	Shri Mahesh Bhangale	Manager (Quality Assurance)	Principal Member
51	S.S. Enterprises, Mumbai	Shri Ramsundar	Proprietor	Principal Member
52	UL India Private Limited, Bengaluru	V. Manjunath	Standards Manager	Principal Member
53	Venus Safety and Health Private Limited, Navi Mumbai	Shri I. Ram Kumar		Alternate Member
54	Venus Safety and Health Private Limited, Navi Mumbai	Shri R. Iyadurai	Director	Principal Member
55	Whirlpool Corporation, Gurugram	Balajee S Prasad		Alternate Member
56	Whirlpool Corporation, Gurugram	Poonam Dake	Manager GSR	Principal Member
57	In Personal Capacity	Shri P K Mukherjee	Personal Capacity	Principal Member



Annex-2

ETD32 : Electrical Appliances		
Scope : To prepare standards for electrical appliances for household and similar purposes, including associated controls		
Liaison : IEC TC- 61B, 61H, 61J SC- 61B, 61H, 61J (P): <i>Safety of household and similar electrical appliances</i> IEC TC- 59A, 59C, 59D, 59F, 59L SC- 59A, 59C, 59D, 59F, 59L (P): <i>Performance of household and similar electrical appliances</i>		
Published Standards		
Sl. No.	IS No.	TITLE
1	IS 302 : Part 1 : 2008	Safety of household and similar electrical appliances Part 1 general requirements Sixth Revision
2	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
3	IS 302 : Part 2 : Sec 3 : 2007	Safety of household and similar electrical appliances Part 2 particular requirements Sec 3 electric iron First Revision
4	IS 302 : Part 2 : Sec 4 : 1993	Safety of household and similar electrical appliances Part 2 particular requirements Sec 4 spin extractors
5	IS 302 : Part 2 : Sec 6 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 6 cooking ranges hobs ovens and similar appliances First Revision
6	IS 302 : Part 2 : Sec 7 : 2010	Safety of household and similar electrical appliances Part 2 particular requirements Sec 7 domestic electric clothes washing machines First Revision
7	IS 302 : Part 2 : Sec 8 : 1994	Safety of household and similar electrical appliances part 2 particular requirements section 8 electrical shavers hair clippers and similar appliances
8	IS 302 : Part 2 : Sec 9 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 9 toasters grills roasters and similar appliances First Revision
9	IS 302 : Part 2 : Sec 11 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 11 tumbler dryers
10	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
11	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
12	IS 302 : Part 2 : Sec 14 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 14 electric kitchen machines First Revision
13	IS 302 : Part 2 : Sec 15 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 15 appliances for heating liquids First Revision



14	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 Second Revision
15	IS 302 : Part 2 : Sec 23 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 23 appliances for skin or hair care First Revision
16	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
17	IS 302 : Part 2 : Sec 25 : 2014	Safety of household and similar electrical appliances Part 2 Particular requirements Section 25 Microwave ovens
18	IS 302 : Part 2 : Sec 26 : 2014	Safety of household and similar electrical appliances Part 2 particular requirements Sec 26 clocks First Revision
19	IS 302 : Part 2 : Sec 30 : 2007	Safety of household and similar electrical appliances Part 2 particular requirements Sec 30 room heaters First Revision
20	IS 302 : Part 2 : SEC 31 : 2009	Safety of household and similar electrical appliances Part 2 particular requirements Sec 31 range hoods
21	IS 302 : Part 2 : Sec 32 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 32 massage appliances
22	IS 302 : Part 2 : Sec 35 : 2017	Safety of household and similar electrical appliances Part 2 particular requirements Sec 35 electric instantaneous water heaters Second Revision
23	IS 302 : Part 2 : Sec 45 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 45 electric heating tools
24	IS 302 : Part 2 : Sec 46 : 1993	Safety of household and similar electrical appliances Part 2 particular requirements Sec 46 electric steam cookers
25	IS 302 : Part 2 : Sec 59 : 1999	Safety of household and similar electrical appliances Part 2 particular requirements Sec 59 insect killers
26	IS 302 : Part 2 : Sec 75 : 2018	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 75 Commercial Dispensing Appliances and Vending Machines
27	IS 302 : Part 2 : Sec 76 : 1999	Safety of household and similar electrical appliances Part 2 particular requirements Sec 76 electric fence energizers
28	IS 302 : Part 2 : Sec 80 : 2017	Household and similar electrical appliances - Safety Part 2 - 80 particular requirements for fans First Revision
29	IS 302 : Part 2 : Sec 201 : 2008	Safety of household and similar electrical appliances Part 2 particular requirements Sec 201 electric immersion water heaters First Revision
30	IS 302 : Part 2 : Sec 202 : 1992	Safety of household and similar electrical appliances Part 2 particular requirements Sec 202 electric stoves
31	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
32	IS 302 : Part 2 : Sec 204 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 204 electric water boilers
33	IS 302 : Part 2 : Sec 206 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 206 electric coffee makers
34	IS 302 : Part 2 : Sec 207 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 207 electric hot plates
35	IS 302 : Part 2 : Sec 208 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 208 single walled baking ovens



36	IS 302 : Part 2 : Sec 209 : 1994	Safety of household and similar electrical appliances Part 2 particular requirements Sec 209 low speed food grinding machines
37	IS 365 : 1983	Specification for electric hot plates Second Revision
38	IS 366 : 1991	Electric iron - Specification Fourth Revision
39	IS 367 : 1993	Electric kettles and jugs for household and similar use - Specification Fourth Revision
40	IS 368 : 2014	Electric immersion water heaters - Specification Fifth Revision
41	IS 369 : 2019	Household electric direct - Acting room heaters - Performance requirements Fourth Revision
42	IS 374 : 2019	Specification for electric ceiling type fans and regulators Third Revision
43	IS 555 : 1979	Specification for electric table type fans and regulators Third Revision
44	IS 959 : 1994	Specification for electric soldering irons Third Revision
45	IS 1169 : 1967	Specification for electric pedestal type fans and regulators First Revision
46	IS 1287 : 1993	Electric toasters - Specification Third Revision
47	IS 1401 : 2008	Protection of persons and equipment by enclosures - Probes for verification Second Revision
48	IS 1415 : 1966	Specification for electric hand - Lamps Revised
49	IS 1416 : 1972	Specification for safety transformers First Revision
50	IS 2082 : 2018	Stationary storage type electric water heaters - Specification Fifth Revision
51	IS 2268 : 1994	Electrical call bells and buzzers for indoor use - Specification Third Revision
52	IS 2312 : 1967	Specification for propeller type AC ventilating fans First Revision
53	IS 2994 : 1992	Electric stoves - Specification Second Revision
54	IS 2997 : 1964	Specification for air circulator type electric fans and regulators
55	IS B2997 : 1964	Specification for air circulator type electric fans and regulators
56	IS 3412 : 1994	Electric water boilers - Specification Second Revision
57	IS 3481 : 1966	Specification for electric portable lamp stands and brackets
58	IS 3588 : 1987	Specification for electric axial flow fans First Revision
59	IS 3724 : 2017	Cartridge type heating elements Non - Embedded Type - Specification First Revision
60	IS 3725 : 1966	Specification for resistance wires tapes and strips for heating elements
61	IS 3963 : 1987	Specification for roof extractor units First Revision
62	IS 4158 : 1986	Specification for solid embedded type electric heating elements First Revision
63	IS 4159 : 2021	Mineral Filled Sheathed Heating Elements
64	IS 4250 : 1980	Specification for domestic electric food - Mixers Liquidizers And Grinders First Revision
65	IS 4327 : 1967	Specification for electric fans and regulators for use in ships
66	IS 4894 : 1987	Specification for centrifugal fans First Revision
67	IS 5159 : 1969	Specification for mains - Operated electric shavers
68	IS 5161 : 1969	Specification for flexible electric heating pads for domestic use



69	IS 5579 : 1985	Pecification for neon testers First Revision
70	IS 5790 : 1985	Specification for domestic electric cooking ovens First Revision
71	IS 6272 : 1987	Specification for industrial cooling fans Man Coolers First Revision
72	IS 6290 : 1986	Specification for steam irons First Revision
73	IS 6365 : 1971	Laboratory Electric Ovens
74	IS 6390 : Part 2 : 1992	Domestic electrical clothes washing machines - Specification Part 2 requirements for tumbler dryers
75	IS 6446 : 1986	Spbcification for mica insulated heating elements First Revision
76	IS 6680 : 1992	Railway carriagefans - Specification First Revision
77	IS 7137 : 1973	Specification for portable hand - Held mains - Operated electric massagers
78	IS 7154 : 1994	Mains operated electric hair dryers First Revision
79	IS 7603 : 1975	Specification for portable low speed food grinding machines
80	IS 8506 : 1977	Specification for laboratory electrical resistance furnaces
81	IS 8978 : 1992	Specification for electric instantaneous water heaters Second Revision
82	IS 8985 : 1978	Specification for single walled baking ovens
83	IS 10436 : 1983	Specification for electric frying pans and deep fat fryers
84	IS 10975 : 1984	Electric Gas Lighters
85	IS 11676 : 1995	Microwave ovens for household and similar purposes - Specification First Revision
86	IS 11879 : 1986	Specification for electric steam cookers
87	IS 12289 : 1988	Specification for hand held electric engraving tools
88	IS 13231 : 1991	Warming plates - Specification
89	IS 13368 : 1992	Method of centrifugal test for double inlet fans Industrial Type
90	IS 13588 : 1993	Spring - Operated impact - Test apparatus and its calibration - Specification
91	IS 13836 : 1993	Potato peeling machine Electrically Operated - Specification
92	IS 13850 : 1993	Dish washing machine heavy duty ratchet type - Specification
93	IS 13886 : 1993	Specification for bimetallic thermostats and thermal cutouts for use with electric iron
94	IS 14144 : 1994	Electric coffee makers
95	IS 14145 : 1994	Mains operated clocks specification
96	IS 14155 : 1994	Domestic electric clothes washing machines for household use - Specification
97	IS 15644 : 2006	Safety of electric toys
98	IS/IEC 60730 : PART 1 : 1999	Automatic electrical controls for household and similar use part 1 General Requirements
99	IS/IEC 60730 : Part 2 : Sec 9 : 2011	Automatic Electrical Controls for Household and Similar Use Part 2 Particular Requirements Section 9 Temperature Sensing Controls

Annex-3

Sr.	Clause no.	Clause description - as per standard	Change proposed by BAJAJ ELECTRICALS LTD.	Justification	Action desired
1	11.7.101 of 302-2-6	11.7.101 Induction hob elements are operated for 30 min. Other hob elements are operated for 60 min.	Induction hob elements are operated for 45 min or till steady conditions are establish. Other hob elements are operated for 60 min.	In most of the cases of Induction Cool Tops, the steady condition of temperature takes more than 30-min.	11.7.101 to be suitably modified.

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