

भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)

हमारा सन्दर्भ : कें. मु. वि. - III / 16 : आई एस 302 (भाग 1)

16 दिसंबर 2024

विषय : घरेलू, वाणिज्यिक और इसी प्रकार के विद्युत् उपकरण सुरक्षा (गुणवत्ता नियंत्रण) आदेश, 2024 एवं संशोधित आई इस 302 (भाग 1) : 2024/ आई ई सी 60335-1 : 2020 के अनुपालन हेतु दिशानिर्देश

यह उपरोक्त विषय के सन्दर्भ में है।

सक्षम अधिकारी द्वारा अनुमोदित दिशानिर्देश अनुपालन हेतु संलग्न है।

सभी क्षेत्रीय / शाखा कार्यालयों से अनुरोध है के दिशानिर्देशों का तत्काल प्रभाव से अनुपालन सुनिश्चित करें।

(पीयूष प्रकाश)
वैज्ञानिक - डी (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय / शाखा कार्यालय

प्रतिलिपि : आई टी एस विभाग - बी आई एस इंटरनेट पर डालने हेतु

BUREAU OF INDIAN STANDARDS
(CENTRAL MARKS DEPARTMENT III)

Our Ref: CMD III/16: IS 302 (Part 1)

16 Dec 2024

Subject: Implementation of Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024 and revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

All ROs/BOs are requested to ensure the implementation of the above Guidelines with-immediate effect.

Peeyush Prakash
Sc.-D(CMD-III)

Head (CMD-III)

All ROs/ BOs

Copy to ITSD: for uploading on BIS intranet.

BUREAU OF INDIAN STANDARDS
(CENTRAL MARKS DEPARTMENT III)

Our Ref: CMD-III/16 : IS 302 (Part 1)

16 Dec 2024

Subject: Implementation of Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024 and revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020

1. Department for Promotion of Industry and Internal Trade has issued the **Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024**. Through the QCO, BIS certification is mandatory for all electrical appliances intended for household, commercial or similar applications with rated voltage not exceeding 250 V single phase alternating current or 415 V three phase alternating current and which do not fall under the scope of any other Quality Control Order issued under the Bureau of Indian Standards Act.
2. As per para (2) of Sl. 1 of the Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024, the electrical appliances which are already covered under any other QCO are not covered under the scope of Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024. The list of such electrical appliances is enclosed at **Annexure – I** for information and guidance.
3. All manufacturers of electrical appliances as per the scope of the QCO are required to obtain BIS certification licence as per IS 302 (Part 1) : 2008 as per Scheme -I of BIS (Conformity Assessment) Regulations, 2018.
4. The existing IS 302-1 : 2008 'Safety of household and similar electrical appliances: Part 1 general requirements (Sixth Revision)' has been revised and published as IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 'Household and Similar Electrical Appliances – Safety Part 1 General Requirements (Seventh Revision)'.
Both the Indian Standards, i.e. IS 302 (Part 1) : 2008 and IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 are under concurrent running till **23rd February 2026**.

A. Implementation of QCO

5. The following has been decided with respect to grant of licence for use of BIS Standard Mark of electrical appliances notified under the Safety of Household, Commercial and Similar Electrical Appliances (Quality Control) Order, 2024:
6. **For new applicants**
 - a. Till the end of concurrent running period, manufacturers can submit applications for grant of licence as per either IS 302 (Part 1) : 2008 or as per revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020;

- b. In case application is submitted as per IS 302 (Part 1) : 2008 and relevant product standard is available in IS 302 (Part 2) series; licence will be granted after compliance to IS 302 (Part 1) : 2008 and the relevant clause of IS 302 (Part 2) of electrical appliance is established. Relevant IS 302 (Part 2) standards for electrical appliances indicated in the illustrative list in the QCO is enclosed at **Annexure – II** for information and guidance only;
- c. In case application is submitted as per IS 302 (Part 1) : 2008 and relevant product standard is not available in IS 302 (Part 2) series; licence will be granted based on the requirements specified in IS 302 (Part 1) : 2008;
- d. In case application is submitted as per IS 302 (Part 1) : 2024 and relevant product standard is available in IS 302 (Part 2) series; licence will be granted after compliance to IS 302 (Part 1) : 2024 and the relevant clause of IS 302 (Part 2) of electrical appliance is established;
- e. In case application is submitted as per IS 302 (Part 1) : 2024 and relevant product standard is not available in IS 302 (Part 2) series; licence will be granted based on the requirements specified in IS 302 (Part 1) : 2024 and the requirements in relevant IEC Standards referred in IS 302 (Part 1) : 2024.

7. For existing licences

- a. Manufacturers having their products falling under purview of this QCO and having voluntary licence for electrical appliances as per safety standard in IS 302 (Part 2) series or as per product standard can opt to changeover their existing licence to licence as per IS 302 (Part 1) : 2008;
- b. Alternatively, they can opt to get a separate licence as per IS 302 (Part 1) : 2008;
- c. In both the above scenarios, licence as per IS 302 (Part 1) : 2008 will be granted for same scope as of existing licence without any further testing and inspection.

8. Product Specific Guidelines:

- a. Product Manual as per IS 302 (Part 1) : 2008 is available on BIS website;
- b. Product Manual as per IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 has also been made available on BIS website;
- c. These Product Manuals shall be followed for all electrical appliances covered in the scope of the QCO, except where specific Product Manuals are issued by BIS for specific electrical appliances.

9. Manufacturers taking BIS certification of electrical appliances as per IS 302 (Part 1) : 2008 shall be required to changeover to revised IS 302 (Part 1) : 2024 / IEC 60335-1 : 2020 by the end of concurrent running date.

For the same, manufacturer shall be required to submit test report from third party BIS recognized labs for additional parameters and changes as per revised Indian

Standards for the models are per grouping guidelines issued in the respective product manuals.

B. Revision of IS 302 (Part 1)

10. The significant changes brought in the Indian Standard through revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 is listed at **Annexure – III** for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised Indian Standard.

11. Consequent upon the publication of revised Standard, the existing Product Manual of the Standard has also been revised as PM/IS 302 (Part 1)/IEC 60335-1/3/December 2024. In this revision, changes have been made in the Scope of licence, in grouping guidelines, in Scheme of Inspection and Testing (SIT), in Marking Requirements, and in Possible Tests in a Day.

12. The guidelines for implementation of the revised IS 302 (Part 1) : 2024/IEC 60335-1 : 2020 are given below

13. For existing licences:

- a. All the BOs shall inform the applicants and licencees of IS 302 (Part 1) in their jurisdiction about implementation of the revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 within a week of issuance of these guidelines;
- b. All Licensees shall implement the revised IS 302 (Part 1) : 2024/IEC 60335-1 : 2020 by the end of concurrent running period. Any difficulty in implementation shall be brought to the notice of CMD III within 30 days of issuance of these guidelines. BOs shall ensure that no Licences are under operation without implementation of the revised IS 302 (Part 1) : 2024/IEC 60335-1 : 2020 after the end of concurrent running period. The status of implementation of the revision of the Standard shall be confirmed by Head (BO) to CMD-III within two weeks of the last date of concurrent running period;
- c. Licencees has to submit the conformity of the components, wherever applicable, as per Cl. 24 of the IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020 by means of a test certificate from supplier or the test report from third party laboratory;
- d. In order to establish conformity of the product to the revised Standard, licensee shall submit test report from third party BIS recognized labs for modified/ additional test requirements (indicated at **Annexure – III**) specified in the revised IS 302 (Part 1) : 2024/ IEC 60335-1 : 2020;
- e. Verification of implementation of the revised Standard, shall be done during the next visit which shall be completed within one month from the date of submission of compliance by licensee;

- f. If the Licensee fails to complete all actions by the end of concurrent running period, it shall be dealt with as per the prevailing guidelines.

14. For New Applicants:

- a. Existing Applications where Sample has been submitted in the Laboratory/Test Report has been issued by the Laboratory may be processed as per old Standard. However, if the Applicant is desirous of considering the Application as per the revised Standard, a declaration may be obtained from the Applicant to that effect and the Application may be processed accordingly. An undertaking shall also be obtained from such Applicants that if the sample fails as per revised Standard, Licence will not be granted as per old Standard;
- b. Applications which are recorded henceforth may be processed as per old or revised Standard. Processing of Application as per old Standard shall be permitted only upto the end of concurrent running and for such cases, Applicant shall give a declaration that they will implement the revised Standard by end of concurrent running;
- c. After the end of concurrent running period, no Licence shall be granted as per old Standard.

15. For Change in Scope of Licence:

- a. For change in scope of licence, the relevant provisions as given above for Applicants shall apply;
- b. However, processing of such applications for change in scope of licence as per old Standard shall be permitted only upto the date of implementation of the revised Standard by the licensee or up to the end of concurrent running period, whichever is earlier.

16. The above guidelines shall come into force with immediate effect.

Peeyush Prakash
Sc.-D

Head (CMD III)

DDG (Certification)

Annexure – I

List of electrical appliances already covered under various QCOs

Sl.No.	Product Name	IS no.	Name of QCO/ CRO	BIS Scheme under which certification is being carried out
1	Domestic Electric Food Mixer (Liquidizers and Grinders) and Centrifugal Juicer	IS 4250 : 1980	Bureau of Indian Standards Kitchen Appliances (Quality Control) Order, 2018	Scheme -I
2	Electric Ceiling Type Fans	IS 374 : 2019	Electric Ceiling Type Fans (Quality Control) Order, 2023	Scheme -I
3	Electrical appliance for domestic water heating - Electric Immersion Water Heaters	IS 368: 2014	Electrical Appliances for domestic water heating (Quality Control) Order, 2023	Scheme -I
4	Electrical appliance for domestic water heating - Stationary storage type electric water heaters	IS 2082 : 2018		Scheme -I
5	Electric iron	IS 302-2-3 : 2007	Electrical Wires, Cables, Appliances and Protection Devices and Accessories (Quality Control) Order, 2003	Scheme -I
6	Electric immersion water-heaters	IS 302-2-201 : 2008		Scheme -I
7	Electric stoves	IS 302-2-202 : 1992		Scheme -I
8	Room Heaters	IS 302-2-30 : 2007		Scheme -I
9	Hand-held Blender	IS 302-2-14 : 2009	Bureau of Indian Standards Kitchen Appliances (Quality Control) Order, 2018	Scheme -I
10	Electrical Appliances for Kitchen - toasters, grills, roasters and similar appliances	IS 302-2-9 : 2009	Electrical Appliances for Kitchen (Quality Control) Order, 2023	Scheme -I
11	Electrical Appliances for Kitchen -Range Hoods	IS 302-2-31 : 2009	Electrical Appliances for Kitchen (Quality Control) Order, 2023	Scheme -I
12	Electrical Appliances for Skin and Hair care	IS 302-2-23 : 2009	Electrical Appliances for Skin or Hair care (Quality Control) Order, 2023	Scheme -I
13	Electrical appliance- fans	IS 302-2-80 : 2017	Electrical appliance fans (Quality Control) Order, 2023	Scheme -I

14	Electrical appliance for commercial dispensing and vending	IS 302-2-75 : 2018	Electrical appliance for commercial dispensing and vending (Quality Control) Order, 2023	Scheme -I
15	Electrical appliance for domestic clothes washing	IS 302-2-7 : 2010	Electrical appliance for domestic clothes washing (Quality Control) Order, 2023	Scheme -I
16	Electrical appliance for domestic water heating - Appliances for stationary storage type electric water heaters	IS 302-2-21 : 2018	Electrical Appliances for domestic water heating (Quality Control) Order, 2023	Scheme -I
17	Electrical appliance for domestic water heating - Appliances for electric instantaneous water heaters	IS 302-2-35 : 2017		Scheme -I
18	Safety of Household and Similar electrical appliances - Part 2 particular requirement Sec 76 electric fence energizers	IS 302-2-76 : 1999	Electric Fence Energizers (Quality Control) Order, 2024	Scheme -I
19	Microwave Ovens	IS 302-2-25 : 2014	Electronics and Information Technology Goods (Requirement of Compulsory Registration) Order, 2021	Scheme -II
20	Electronic Clocks with Mains Power	IS 302-2-26 : 2014		Scheme -II
21	Adapters for household and similar electrical appliances	IS 302-1 : 2008		Scheme -II
22	Induction Stoves	IS 302-2-6 : 2009		Scheme -II
23	Rice Cookers	IS 302-2-15 : 2009		Scheme -II

Annexure – II

List of electrical appliances where Standard is available in IS 302 (Part 2) series

Sl No	Electrical Appliance	Indian Standard	Corresponding IS for part 2	Title of Standard
1	Vacuum Cleaners and Water Suction Cleaning Appliances	IS 302-1 :2008	IS 302 (Part 2/ Sec 2)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 2 vacuum cleaners and water suction cleaning appliances
2	Spin Extractors	IS 302-1 :2008	IS 302 (Part 2/ Sec 4)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 4 spin extractors
3	Cooking Ranges, Hobs, Ovens and Similar Appliances	IS 302-1 :2008	IS 302 (Part 2/ Sec 6)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 6 cooking ranges, hobs, ovens and similar appliances (First Revision)
4	Tumbler Dryers	IS 302-1 :2008	IS 302 (Part 2/ Sec 11)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 11 tumbler dryers
5	Warming Plates and Similar Appliances	IS 302-1 :2008	IS 302 (Part 2/ Sec 12)	Safety of household and similar electrical appliances - Specification: Part 2 particular requirements: Sec 12 warming plates and similar appliances
6	Appliances for Heating Liquids	IS 302-1 :2008	IS 302 (Part 2/ Sec 15)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 15 appliances for heating liquids (First Revision)
7	Massage Appliances	IS 302-1 :2008	IS 302 (Part 2/ Sec 32)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 32 massage appliances
8	Electric Heating Tools	IS 302-1 :2008	IS 302 (Part 2/ Sec 45)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 45 electric heating tools

9	Electric Steam Cookers	IS 302-1 :2008	IS 302 (Part 2/ Sec 15)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 15 appliances for heating liquids (First Revision)
10	Electric Call Bells and Buzzers for Indoor Use	IS 302-1 :2008	IS 302 (Part 2/ Sec 203)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 203 electric call bells and buzzers for indoor use
11	Electric Water Boilers	IS 302-1 :2008	IS 302 (Part 2/ Sec 204)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 204 electric water boilers
12	Electric Coffee Makers	IS 302-1 :2008	IS 302 (Part 2/ Sec 206)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 206 electric coffee makers
13	Electric Bean Slicers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
14	Electric Berryjuice Extractors	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
15	Electric Can Openers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
16	Electric Centrifugal Juicers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
17	Electric Churns	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
18	Electric Citrusfruit Squeezers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14

				electric kitchen machines (First Revision)
19	Electric Coffee Mills not exceeding 500g hopper capacity	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
20	Electric Cream Whippers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
21	Electric Egg Beaters	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
22	Electric Food Processors	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
23	Electric Grain Grinders not exceeding 3l hopper capacity	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
24	Electric Graters	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
25	Electric IceCream Machines, including those for use in refrigerators and freezers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
26	Electric Knife Sharpeners	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)

27	Electric Knives	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
28	Electric Noodle Makers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
29	Electric Potato Peelers	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
30	Electric Shredders	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
31	Electric Sieving Machines	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
32	Slicing Machines	IS 302-1 :2008	IS 302 (Part 2/ Sec 14)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)
33	Electric Hot Plates	IS 302-1 :2008	IS 302 (Part 2/ Sec 9)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 207 electric hot plates
34	Single Walled Baking Ovens	IS 302-1 :2008	IS 302 (Part 2/ Sec 208)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 208 single walled baking ovens
35	Low Speed Food Grinding Machines	IS 302-1 :2008	IS 302 (Part 2/ Sec 209)	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 209 low speed food grinding machines
36	Electrical Shavers Hair, Clippers and Similar Appliances	IS 302-1 :2024	IS 302 (Part 2/ Sec 8)	Safety of household and similar electrical appliances: part 2 particular requirements, section 8

				electrical shavers hair, clippers and similar appliances
37	Frying Pans, Deep Fat Fryers and similar appliances	IS 302-1 :2024	IS 302 (Part 2/ Sec 13)	Household and Similar Electrical Appliances – Safety Part 2 Particular Requirements Section 13 Deep Fat Fryers, Frying Pans and Similar Appliances (First Revision)
38	Insect Killers	IS 302-1 :2024	IS 302 (Part 2/ Sec 59)	Household and Similar Electrical Appliances – Safety Part 2 Particular Requirements Section 59 Insect Killers (First Revision)
39	Commercial Electric Forced Convection Ovens, Steam Cookers and Steam - Convection Ovens	IS 302-1 :2024	IS 302 (Part 2/ Sec 42)	Household and similar electrical appliances - Safety Part 2 Particular Requirements Section 42 Commercial Electric Forced Convection Ovens, Steam Cookers and Steam-Convection Ovens

Annexure – III

**The significant changes brought in the Indian Standard through revised IS 302 (Part 1) :
2024/ IEC 60335-1 : 2020**

Sl. No.	Clause & Title	Modification	Action required for changeover
1	Cl. 1, Scope	Addition of battery-operated appliances. Scope for a.c. operated appliance is extended to 480 V	New variety added, no changes for existing variety.
2	Cl. 2, Normative references	Addition of Standards in normative references	No action required.
3	Cl. 3, Terms and definitions	Addition of Terms and definitions	No action required.
4	Cl. 4, General requirement	No changes	No action required.
5	Cl. 5, General conditions for the tests	Changes in Cl. 5.3, 5.10, 5.17, 5.18, 5.19, 5.21	Testing required, wherever applicable.
6	Cl. 6, Classification	No changes	No action required.
7	Cl. 7, Marking and instructions	Changes in Cl. 7.1, 7.6, 7.7, 7.8, 7.12, 7.14, 7.15	Marking required to be modified, wherever applicable.
8	Cl. 8, Protection against access to live parts	Additional requirement for battery-operated appliance; testing with test probe 18 is added	New variety added. Further, testing required as per test probe 18, wherever applicable.
9	Cl. 9, Starting of motor-operated appliances	No changes. Particular requirements of Part 2 applies	Particular requirements of Part 2 apply. Testing required, wherever applicable.
10	Cl. 10, Power input and current	Clarification added in Cl. 10.1, 10.2	Testing required, wherever applicable.
11	Cl. 11, Heating	Changes in Cl. 11.3, 11.7, Table 3	Testing required, wherever applicable.
12	Cl. 12, Charging of metal-ion batteries	Addition of battery-operated appliances	New variety added, no changes for existing variety.
13	Cl. 13, Leakage current and electric strength at operating temperature	No changes	No action required.
14	Cl. 14, Transient overvoltages	Impulse test voltage has been increased for appliances as per rating in Table 6	Testing required, wherever applicable.
15	Cl. 15, Moisture resistance	Clarification added in Cl. 15.1.2, 15.2. Modification in Cl. 15.3.	Testing required, wherever applicable.
16	Cl. 16, Leakage current and electric strength	Clarification added in Cl. 16.3	Testing required, wherever applicable.
17	Cl. 17, Overload protection of	Clarification added in Para 2	Testing required, wherever applicable.

	transformers and associated circuits		
18	Cl. 18, Endurance	No changes. Particular requirements of Part 2 applies	Particular requirements of Part 2 apply. Testing required, wherever applicable.
19	Cl. 19, Abnormal operation	Changes in Cl. 19.1, 19.5, 19.7, 19.9, 19.11, 19.13. New clause added at 19.14, 19.15, 19.16, 19.17	Testing required, wherever applicable.
20	Cl. 20, Stability and mechanical hazards	Test probe 18 is introduced	Change in test equipment. Testing required, wherever applicable.
21	Cl. 21, Mechanical strength	Changes in Cl. 21.1. Additional Cl. 21.3 is added	Testing required, wherever applicable.
22	Cl. 22, Construction	Changes in Cl. 22.5, 22.12, 22.25, 22.32, 22.33, 22.34, 22.35, 22.40, 22.45, 22.48. Additional Cl. 22.49 to 22.62 is added.	Testing required, wherever applicable.
23	Cl. 23, Internal wiring	Changes in Cl. 23.3, 23.5, 23.10	Testing required, wherever applicable.
24	Cl. 24, Components	Modification in Cl. 24.1. Additional Cl. 24.1.7, 24.1.8, 24.1.9, 24.1.10, 24.1.11, 24.7, 24.8 is added	Testing required, wherever applicable.
25	Cl. 25, Supply connection and external flexible cords	Changes in Cl. 25.3, 25.7, 25.8 (Table 11), 25.10, 25.13, 25.15, 25.16, 25.23	Testing required, wherever applicable.
26	Cl. 26, Terminals for external conductors	Changes in Cl. 26.1, 26.3, 26.7	Testing required, wherever applicable.
27	Cl. 27, Provision for earthing	Changes in Cl. 27.1, 27.4, 27.6	Testing required, wherever applicable.
28	Cl. 28, Screws and connections	Changes in Cl. 28.2, 28.3, 28.4	Testing required, wherever applicable.
29	Cl. 29, Clearances, creepage distances and solid insulation	Changes in Cl. 29 including Table 17 and Table 18	Testing required, wherever applicable.
30	Cl. 30, Resistance to heat and fire	Changes in Cl. 30.1, 30.2	Testing required, wherever applicable.
31	Cl. 31, Resistance to rusting	No changes	No action required.
32	Cl. 32, Radiation, toxicity and similar hazards	Testing method is provided	Testing required, wherever applicable.