



उत्पाद मैनुअल

आई एस 302-2-23 : 2009 के अनुसार

घरेलु और समान विद्युत साधित्रों की सुरक्षा भाग 2 विशेष अपेक्षाएँ अनुभाग 23 त्वचा अथवा बालों की देखभाल के लिए साधित्र (पहला पुनरीक्षण) के लिए

दस्तावेज संख्या – पीएम/आईएस 302-2-23/3/ नवंबर 2024

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना-1 के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

PRODUCT MANUAL FOR SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES PART 2 PARTICULAR REQUIREMENTS SECTION 23 APPLIANCES FOR SKIN OR HAIR CARE (FIRST REVISION)

ACCORDING TO IS 302-2-23 : 2009

Document No - PM/IS 302-2-23/3/November 2024

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification.

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आई एस 302-2-23 : 2009 के अनुसार

PRODUCT MANUAL

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES PART 2 PARTICULAR
REQUIREMENTS SECTION 23 APPLIANCES FOR SKIN OR HAIR CARE (FIRST REVISION)
ACCORDING TO IS 302-2-23 : 2009

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1.	मानक संख्या IS No.	:	IS 302-2-23 : 2009
	शीर्षक Title	:	Safety of household and similar appliances Part 2 Particular Requirements – Section 23 Appliances for Skin or Hair Care
	संशोधनों की संख्या No. of amendments	:	1
2.	नमूना दिशानिर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	-
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer ANNEX – A

c)	नमूने का परिमाण Sample Quantity	:	1 number
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – B
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – C
5.	एक दिन में संभावित परीक्षण Possible tests in a day:	:	Please refer ANNEX-D
6.	लाइसेंस का दायरा /Scope of the Licence	:	
Licence is granted to use Standard Mark as per IS 302-2-23 : 2009 with the following scope:			
	Name of the Product	Household and similar appliances – Safety Requirements of Appliances for Skin or Hair Care	
	Type of Appliance	curling combs/ curling irons/ curling rollers with separate heaters/ facial saunas/ hairdryers/ hand dryers/ heaters with detachable curlers/ permanent-wave appliances/ hair straightener/ hair crimper/ hair dryer/ helmet type hairdryer/ hair straightener comb/ multipurpose hair care appliance ¹ / others ²	
	Model No.		
	Classification	steam-producing/ spray-producing devices/other	
	Rating	____W,____V,____Hz	
	Class of Appliance	Class I/II/III	

NOTE:

1. For multipurpose hair care appliances having multiple features, manufacturer shall declare the features of appliance, for example: multipurpose appliance having features of hair straightener with curler and crimper.
2. The list is indicative only. Electrical appliances for care of skin or hair of persons or animals and intended for household and similar purposes having rated voltage upto 250 V are covered in the IS 302-2-23 : 2009.

ANNEX – A

समूहीकरण दिशानिर्देश **Grouping Guidelines**

1. All the models of Hair/ Skin care appliances are to be grouped, for the purpose of GOL/CSOL, based on the type of Appliance (such as Hair dryer/ Hair straightener, facial saunas, etc.).
2. Further, each group of appliance to be sub-grouped based on the wattage rating as per following ratings:
 - a. From 0 upto 50 W;
 - b. From 50 upto 100 W;
 - c. From 100 upto 150 W;
 - d. From 150 upto 200 W;
 - e. From 200 upto 500 W
3. For each type of appliance and for each sub-groups above, any one sample of highest wattage rating to be tested to cover all the models of the same type of appliance falling in the same sub-group, provided that there is no change in any of the other technical parameters (such as Class of appliance, Degree of protection, Pollution degree, Material class, Insulation class) in those models of the appliances. In case of change in any of the above technical parameters, then those models are to be tested again.
4. For each type of appliance with rating above 500 W, each model has to tested.
5. Change in aesthetics, i.e. colour, visual design, may not be treated as different varieties of the models of Appliances and additional testing in such cases need not be done for those models of the appliances.
6. For the purpose of grouping, manufacturer shall declare the parameters indicated in the scope of licence for each model of the Skin and Hair Care appliance produced by them. Further, the manufacturer shall also declare the following for each model of the appliance:
 - a. Degree of protection;
 - b. Pollution degree;
 - c. Material class;
 - d. Insulation class (if applicable);
 - e. Appliance having specific requirements, e.g. declaration regarding 'with/without water tank' for steam-producing/ steam-spraying appliance.

7. The Firm shall declare the models they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing capability and Testing facilities of the Manufacturer.
8. During the operation of the Licence, BO shall ensure that all the models covered in the Scope of Licence are tested in rotation to the extent possible.

ANNEX – B

परीक्षण उपकरणों की सूची

List Of Test Equipment

(INDICATIVE LIST, FOR GUIDANCE ONLY)

Major test equipment required to test as per the Indian Standard

S. No.	Test equipment list	Test used in with clause reference
1	Petroleum spirit, Cloth, Stopwatch	Cl. 7 (Marking and instruction)
2	Test probe-B, Test Probe-13, Test probe-41, Push-Pull Gauge, Voltmeter	Cl.8 (Protection against access to live parts)
3	Wattmeter, Voltmeter	Cl. 10 (Power Input and current)
4	Digital temp Indicator, Steel scale, Voltmeter, Wattmeter, Wooden test corner, Thermometer, Stopwatch	Cl. 11 (Heating)
5	Leakage current tester, Wattmeter, Voltmeter, Stop watch, HV tester, Humidity chamber	Cl. 13, Cl. 15, Cl. 16 (Leakage current and electric strength, Moisture resistance test)
6	Watt-meter, Voltmeter, Temp indicator, HV tester, Metal Foil, Thermometer, Stop watch	Cl. 19 (Abnormal Operation)
7	Inclined plane, Angle Finder, Push pull gauge, Test probe B, Steel scale, Spring Hammer	Cl. 20 (Stability and mechanical Hazards), Cl. 21 (Mechanical Strength)
8	Test probe-B, Test probe-13, Test probe-41, Push-pull Gauge, Hot Air Oven, Stop watch, Voltmeter, Multi meter, Vernier Caliper,	Cl. 22 (Construction)
9	Flexing Test Apparatus, HV tester, Metal Foil, Stop watch	Cl. 23 (Internal Wiring)
10	LCR meter, Endurance test apparatus	Cl. 24 (Components)
11	Vernier Caliper, weighing balance, Cord grip test apparatus, Stop watch, Micro ohm meter, Torque Screw Drivers, HV tester, Metal foil, Cord flexing test apparatus, Push pull gauge	Cl. 25 (Supply connections and External Flexible Cables and Cords), Cl. 26 (Terminal for external Conductors) Cl. 28 (Screw and connections), Cl. 29 (Creepage distances and Clearances and distances through insulation)

12	ECR Tester	Cl. 27 Provision for Earthing
13	Hot Air Oven, Ball pressure test apparatus, Vernier caliper, Glow wire tester, Travelling microscope	Cl. 30 (Resistance to heat, Fire and tracking)
14	Humidity Chamber with Temp and Humidity Controller, Measuring Cylinder 500 ml Ammonium Chloride, Carbon Tetrachloride, Distilled Water	Cl. 31 (Resistance to rusting)
15	Temp recorder, Fine wire thermocouples, Winding resistance measurement system, Test Corner, probe for measurement of surface temperature	Cl.17, (Overload protection of transformers and associated circuits)
16	Impulse voltage test generator and monitor	Cl. 14 (Transient voltages)
17	Air conditioner	To maintain ambient temperature

Note: The above list is indicative only and may not be treated as exhaustive.

ANNEX – C

निरीक्षण और परीक्षण की स्कीम

Scheme Of Inspection And Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan defining the control unit (i.e. lot/batch etc.) and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.4.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: **All appliances for Skin or Hair Care of same model number of each type manufactured in a day, shall constitute a control unit.** The manufacturer has the choice to define their own control unit/batch/lot and submit the same to the BIS.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in Table 1.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan. Alternatively, the manufacturer has the option of adherence to the quality plan as per levels of control recommended in column 3 of Table 1.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates routine tests where test equipment is required in house as “R” or other tests which can be subcontracted as “S”. Subcontracting is permitted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.2 For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility for routine tests (indicated as “R” in Column 2 of Table 1) is also optional.

2.2.1 MSME manufacturers may utilize common cluster-based facilities as per guidelines for the utilization of cluster-based test facilities by MSMEs or the provisions of Sharing of testing facilities or get testing

done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 Large Scale manufacturers shall maintain an in-house laboratory equipped at least with test facilities for routine tests (indicated as “R” in Column 2 of Table 1), where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the in-house test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, large scale manufacturers can also utilize the provisions of Sharing of testing facilities as per the Guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process). Even for subcontracted tests, provisions for sharing of testing facilities can be utilized.

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster-based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on **each Appliances for Skin or Hair Care** provided always that the material so marked conforms to each requirement of the specification. Marking shall be done as per the **IS 302-2-23 : 2009**.

4. Additional Marking requirements: The following additional requirement shall also be marked on packaging:

a) “For BIS certification details please visit www.bis.gov.in”

5. REJECTION - All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1
(ONLY FOR GUIDANCE PURPOSE)

(1)				(2)	(3)	
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control	
Cl. No. as per IS 302-2-23	Requirement	Test Methods			No. of Sample	Frequency
		Cl.	Ref			
24	Components	24	IS 302-1, IS 302-2-23	S	Each consignment	No further testing required, if supplied with test certificate or BIS Standard Mark.
7	Marking	7	IS 302-1, IS 302-2-23	R	Firm should exercise adequate control so that whole production should meet the requirements. Records shall be maintained.	
5.1	Earth continuity test	A-1	IS 302-1	R	Each product	
5.1	Electric strength test	A-2		R		
5.1	Functional test	A-3		R		
27	Provision for earthing	27		R		
8	Protection Against Electric Shock	8	IS 302-1, IS 302-2-23	R	Each control unit	
10	Power Input and Current	10	R	One		
13	Leakage current and Electric strength at operating temperature	13	R	One		
16	Leakage current and Electric strength	16		R	One	

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11	Heating	11	IS 302-1, IS 302-2-23	R	One	Once every week for each model manufactured in the period
15	Moisture Resistance	15	IS 302-1	S	One	Every three months for each model manufactured in the period
14	Transient Overvoltages	14		S		
17	Overload protection of transformers and associated circuits	17		S		
20	Stability and Mechanical hazards	20		S		
28	Screws and connections	28		S		
31	Resistance to rusting	31		S		
19	Abnormal operation	19	IS 302-1, IS 302-2-23	S	One	Every six months for each model manufactured in the period
21	Mechanical strength	21		S		
22	Construction	22		S		
23	Internal wiring	23		S		
25	Supply connection and external flexible cables and cords	25		S		
26	Terminals for external conductors	26		S		
29	Creepage distances, clearances and distances through insulation	29		S		
30	Resistance to heat, fire and tracking	30		S		
32	Radiation, Toxicity and Similar Hazards	32		S		

ANNEX – D

एक दिन में संभावित परीक्षण

Possible Tests in a day

1. Earth Continuity test (A-1 of IS 302-1)
2. Electric strength test (A-2 of IS 302-1)
3. Protection against access to live parts (Cl. 8)
4. Power input and current (Cl. 10)
5. Heating (Cl. 11)
6. Leakage current and electric strength at operating temperature (Cl. 13)
7. Mechanical strength (Cl. 21)
8. Provision for earthing (Cl. 27)
9. Screws and connections (Cl. 28)
10. Resistance to heat and fire (Cl. 30)
11. Stability and Mechanical Hazards (Cl. 20)