

भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)

हमारा संदर्भ : सी एम डी - III/16 : IS 369

26 March 2019

विषय : आई एस IS 369:2019 के अनुपालन हेतु एस आई टी

सभी शाखा कार्यालय से आग्रह है कि एस आई टी DOC:SIT/IS 369/ 1/ March 2019 का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

अलिस्मिता खाग
वैज्ञानिक बी (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

CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: IS 369

26 March 2019

Subject: SIT for implementation of IS 369:2019

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the SIT with immediate effect.

Alismita Khag
Sc B(CMD III)

Head (CMD III)

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**SCHEME OF INSPECTION AND TESTING FOR CERTIFICATION OF
HOUSEHOLD ELECTRIC DIRECT ACTING ROOM HEATERS
ACCORDING TO IS 369:2019**

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirements of IS 369:2019.

4. LEVELS OF CONTROL - The tests as indicated in column 1 of [Table 1](#) and the levels of control in column 3 of [Table 1](#), shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

4.1 All the production which conforms to the Indian Standard and covered by the licence should be marked with Standard Mark.

5. CONTROL UNIT– All Heaters of the same type and rating manufactured in a day shall constitute a control unit.

6. REJECTIONS – 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 LEVELS OF CONTROL

(1)				(2)	(3)			
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control			
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks	
		Clause	Reference					
18.4	Earth Continuity Test	A-1	IS 302-1	R	Every Room Heater	-		
	Electric Strength Test	A-2	IS 302-1	R				
	Functional test	A-3	IS 302-1	R				
Safety Requirements (as per IS 302-2-30)								
	Protection against access to live parts	8	IS 302-2-30	R	Two	Every control Unit	Pl. see Note 1	
	Power Input and Current	10	IS 302-2-30	R	10% subject to a minimum of three and maximum of thirteen			
	Leakage Current & Electric Strength at Operating Temperature	13	IS 302-2-30	R				
	Transient Overvoltage	14	IS 302-2-30	S	Two	Every year for each type and rating		
	Heating	11	IS 302-2-30	R	Two	Every week for each type and rating		
	Moisture Resistance	15	IS 302-2-30	R				
	Leakage Current & Electric Strength	16	IS 302-2-30	R				
	Overload Protection of Transformers and Associated Circuits	17	IS 302-2-30	S	Two	Once a month for each type & rating		
	Abnormal Operation	19	IS 302-2-30	R	Two	Every six months for each type and rating		
	Stability & Mechanical Hazards	20	IS 302-2-30	R				
	Construction	22	IS 302-2-30	R	Two			
	Mechanical Strength	21	IS 302-2-30	R	Two	Two from each type and rating every 3 months or 5000 room heaters whichever is earlier		Pl. see Note 2

	Internal Wiring	23	IS 302-2-30	R		Every six months for each type and rating	Pl. see Note 1
	Components	24	IS 302-2-30	R			
	Supply Connection & External Flexible Cords	25	IS 302-2-30	R			
	Terminals for External Conductors	26	IS 302-2-30	R			
	Provision for Earthing	27	IS 302-2-30	R	Every Room Heater		
	Screws and Connections	28	IS 302-2-30	R	Two	Every six months for each type and rating	
	Clearances, Creepage Distances & Solid Insulation	29	IS 302-2-30	R			
	Resistance to Heat and Fire	30	IS 302-2-30	S			
	Resistance to Rusting	31	IS 302-2-30	S			
	Radiation, Toxicity & Similar Hazards	32	IS 302-2-30	S			
Performance Requirements							
7	Dimensions, mass and means of connection to the supply (for all heaters)	7	IS 369	R	Two	Every six months for each type and rating	
8	Temperature rise of air-outlet grilles and external surfaces (for all heaters)	8	IS 369	R	Two	Every week for each type and rating	
9	Temperature rise of surfaces surrounding the heater (for all heaters)	9	IS 369	R	Two	Every week for each type and rating	
10	Warming-up time of the heater (for all heaters)	10	IS 369	R	Two	Every week for each type and rating	
11	Stability of room temperature (for heaters with an ambient temperature thermostat)	11	IS 369	S	Two	Every six months for each type and rating	

12	Set-back (for heaters with a set-back device)	12	IS 369	S	Two	Every six months for each type and rating
13	Frost protection temperature (for heaters with frost protection means)	13	IS 369	S	Two	Every six months for each type and rating
14	Inrush Current (for all heaters)	14	IS 369	R	Two	Every week for each type and rating
15	Effect of radiant heat (for all heaters except fan heaters and heaters for mounting at a height above 1.8m)	15	IS 369	R	Two	Every week for each type and rating
16	Measurement of the Usable Power (for all heaters)	16	IS 369	R	Two	Every week for each type and rating

Note 1: In case of failure in any type and rating, a thorough investigation of the cause of failure shall be made and defects rectified. Five samples of that type and rating from the improved lot shall be tested for these requirements till samples from five consecutive control units pass. The original frequency may then be restored.

Note-2: In case of failure, all room heaters in the control unit shall be tested and those found failing shall be rejected. All room heaters produced subsequently shall be tested for these requirements till 13 consecutive heaters pass. The original frequency may then be restored.

Note- 3: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.

Note- 4: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.