

केंद्रीय मुहर विभाग - III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-3/16: IS 15558

30 07 2018

**विषय: IS 15558 : 2005 के संशोधन संख्या 4 के अनुपालन हेतु एस आई टी**

1. इस उपरोक्त विषय का संदर्भ प्राप्त है।
2. सक्षम प्राधिकारी ने उपरोक्त एस आई टी को अनुमोदित कर दिया है।
3. सभी शाखा कार्यालय से आग्रह है कि उपरोक्त एस आई टी का अनुपालन सुनिश्चित करें।

(अमित कुमार)

वैज्ञानिक 'सी' (सी एम डी-III)

**प्रमुख (सी एम डी-III)**

सभी क्षेत्रीय/शाखा कार्यालय

आई टी एस विभाग — बीआईएस इंटरनेट पर अपलोड करने हेतू

**CENTRAL MARKS DEPARTMENT-III**

Our Ref: **CMD-3/16: IS 15558**

**30 07 2018**

**Subject: SIT for implementation of Amendment no. 4 to IS 15558:2005.**

1. This has reference to the subject stated above.
2. The above SIT Doc: **SIT/15558/1, July 2018** has been approved by the Competent Authority.
3. All ROs/BOs are requested to ensure the implementation of the above SIT.

Amit Kumar  
Sc. C (CMD III)

Head (CMD III)

Circulated to: All ROs/BOs

Copy to: ITS for hosting on Intranet

**SCHEME OF INSPECTION AND TESTING**

**FOR CERTIFICATION OF INSTANTANEOUS DOMESTIC WATER HEATER  
FOR USE WITH LPG ACCORDING TO IS 15558: 2005**

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 equipments.
2. **TEST RECORDS** – The manufacturer shall maintain test records for the tests carried out to establish conformity.
3. **LABELLING AND MARKING** – As per the requirement of IS 15558: 2005.
4. **CONTROL UNIT** -Water heaters of the same design, material of burners, total gas consumption in g/h, type of exhaust (flue or forced), ignition (manual or automatic) and water flow rate manufactured during a day shall constitute a control unit.
5. **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.
  - 5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.
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

(1)		(2)		(3)			
Test Details		Test equipment requirement		Levels of Control			
Cl.	Requirement	Test Method		R:required (or) S: Subcontracting permitted	No. of Sample	Frequency	Remarks
		Clause	Reference				
4.	General Requirements	4	IS 5116	R	Each water heater		
		4.1.1 to 4.1.9 4.1.12 }	IS 15558				
		4.1.10	IS 15558	R	One	Each Control Unit	
		4.1.11	IS 15558	R	One		
5	Materials	5.1	IS 15558 IS 513 (Part 1)	S	One	Each Consignment	No further testing is required, if accompanied with the Test Certificate or ISI Marked.  In case of failure, consignment shall not be used in manufacturing.
		5.2	IS15558 IS 2305	S	Two set		
		5.3 & Annex A	IS 15558	S			
6.	Connection	6.2	IS 15558	S			
		6.3	IS 15558	S			

		6.4	IS 15558	R	One	Each Control Unit	
		6.6 18	IS 15558 IS 5116	R	One		
7	Flame Visibility	7	IS 15558	R	Each water heater		
8	Gas Taps	8	IS 15558	R			
9	Flame Failure Device	9.1 & 9.2 Annex E  14.1	IS 15558  IS 5116	R			
10	Ignition Device	10	IS 15558	R			
19	Ignition & Flame Travel	19	IS 15558	R			
11	Protection against overheating	11	IS 15558	R			
14	Gas Soundness	14 16	IS15558 IS 5116	R	Each water heater		
15	Water Soundness	15	IS 15558	R			
20	Flame Stability	20	IS 15558	R			
21	Noise Control	21	IS 15558	R			
22	Flashback	22	IS 15558	R	One	Each Control Unit	

TYPE TESTS							
5	Material	5.4	IS 15558	R	Two	Every 10 <sup>th</sup> consignment	
16	Thermal Efficiency	16 & Annex B	IS 15558	R	One	Every 10 <sup>th</sup> Control Unit	In case of failure, sample from three consecutive control units shall be tested. The original frequency shall be restored only if these samples pass.
17	Combustion Efficiency	17 & Annex C	IS 15558	R	One	Every 30 <sup>th</sup> Control Unit	
18	Gas Consumption	18	IS 15558	R	Three	Each Control Unit	
23	Resistance to draught	23	IS 15558	R	One	Every 10 <sup>th</sup> Control Unit	In case of failure, sample from three consecutive control units shall be tested. The original frequency shall be restored only if these samples pass.
24	Fire Hazard & Limiting Temperature	24 23	IS 15558 IS 5116	R	One	Every 30 <sup>th</sup> Control Unit	
25	Time for temperature rise	25 & Annex D	IS 15558	R	One	Every 10 <sup>th</sup> Control Unit	
26	Hot Water Output test	26 & Annex C	IS 15558	R	One	Every 10 <sup>th</sup> Control Unit	

**NOTE-1:** Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

**NOTE-2:** 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.