

**केन्द्रीय मुहर विभाग-2**

हमारा संदर्भ: के मू वी-2/16: 636

25 02 2019

**विषय: संशोधित IS 636:2018 की एस आई टी (Scheme of Inspection and Testing)**

1. यह उपरोक्त विषय व 07 01 2019 को जारी किए गए कार्यान्वयन दिशा निर्देशों के संदर्भ में है।
2. सक्षम अधिकारी द्वारा अनुमोदित संशोधित IS 636:2018 की एस आई टी अनुपालन हेतु संलग्न है।

(आदित्य दास)  
वैज्ञानिक सी

**प्रमुख (के मू वी-2)**

सभी क्षेत्रीय/शाखा कार्यालय

प्रतिलिपि :

आई टी एस विभाग – बी आई एस इंटरनेट पर डालने हेतु

**CENTRAL MARKS DEPARTMENT-2**

Our Ref: CMD-2/16: 636

25 02 2019

**Subject: Scheme of Inspection and Testing (SIT) for Revised IS 636:2018**

1. This has reference to the above and further to the implementation guidelines issued on 07 01 2019
2. Scheme of Inspection and Testing for Revised IS 636:2018, duly approved by the CA, is enclosed for implementation.

(Aditya Das)  
Scientist C

**Head (CMD-2)**

All ROs/BOs

**SCHEME OF INSPECTION AND TESTING  
FOR CERTIFICATION OF  
NON-PERCOLATING FLEXIBLE FIRE  
FIGHTING DELIVERY HOSE  
ACCORDING TO IS 636:2018  
(Fourth Revision)**

**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** -The Standard Mark as given in Schedule of the license shall be incorporated legibly on each Non-Percolating Flexible Fire Fighting Delivery Hose at a point not less than 1 m from each end provided the hose thus marked conforms to all the requirement of the specification.

3.1 Marking shall be done as per the provisions of IS 636:2018. In addition, details of BIS licence no. CM/L-\_\_\_\_ and BIS website shall be marked as follows: "For details of BIS certification please visit [www.bis.gov.in](http://www.bis.gov.in)"

**4. LEVELS OF CONTROL** - The tests, as indicated in 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 production which conforms to the Indian Standard and covered in the licence should be marked with Standard mark.

**5. REJECTION** - 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. Any rejected material which is potentially re-salable be sheared or cut or deformed in such a manner that it cannot be used for any other purpose. A separate record shall be maintained giving information on quantity and batch number/control unit number, as applicable, relating to all such rejections/defective/sub-standard material of the production not conforming to the requirements of the Specification and the method of its disposal. Such material shall in no case be stored together with that conforming to the Specification. The Standard Mark (if already applied) on rejected material should be defaced.

**SCHEME OF INSPECTION AND TESTING  
NON-PERCOLATING FLEXIBLE FIRE  
FIGHTING DELIVERY HOSE  
ACCORDING TO IS 636:2018  
(Fourth Revision)**

**TABLE 1: LEVELS OF CONTROL**

(1)			(2)	(3)		(4)
Test Details			Test equipment requirement R:required (or) S: Sub-contracting permitted	Levels of Control		Remarks
Clause	Requirements	Test Method		No. of Samples	Lot Size	
		Clause	Reference			
6.	Requirements					
6.1.1, 6.1.2	General	6.1.1, 6.1.2	IS 636	R	One	After every 500m of Hose length
6.1.3	Workmanship	6.1.3	-do-	R	-do-	-do-
6.2	Internal Diameter	6.2	-do-	R	-do-	All Hoses
6.3	Length	6.3	-do-	R	-do-	After every 500 m of Hose length
6.4	Mass	6.4	-do-	R	-do-	-do-
6.5	Coil Diameter	6.5	-do-	R	-do-	After every 2000 m of Hose length
6.6	Hydrostatic Proof Pressure Test	6.6	-do-	R		All Hoses
6.7	Hydrostatic Burst Pressure Test	6.7	-do-	R	-do-	After every 8000 m of Hose length
6.8	Kink Test	6.8	-do-	R	one	After every 8000 m of Hose length
6.9	Change in Length	6.9	-do-	R	-do-	After every 2000 m of Hose length
6.10	Change in Diameter	6.10	-do-	R	-do-	-do-

6.11	Requirements for Rubber Lining and the Outer Coating	6.11					
6.11.1	<i>Adhesion</i>	<i>Annex B</i>	<i>-do-</i>	<i>R</i>	<i>One</i>	<i>After every 8000 m of hose length</i>	
6.11.1	<i>Accelerated Ageing test</i>	<i>6.11.2</i>	<i>-do-</i>	<i>R</i>	<i>One</i>	<i>After every 15000 m of hose length</i>	
6.12	Abrasion Resistance	6.12	-do-	R	-do-	After every 8000 m of Hose length	
6.13	Water Pick up/Moisture Absorption	Annex D	-do-	R	-do-	After every 8000 m of Hose length	For type 2 and type 3 only
6.14	Heat Resistance	Annex E	-do-	R	-do-	After every 8000 m of Hose length	-do-
6.15	Oil Resistance Test	6.15	-do-	R	-do-	After every 8000 m of Hose length	For type 3 only
6.16	Ozone Resistance Test		IS 443 (Part 1)	R	-do-	After every 15000 m of Hose length	
6.17	Hot surface resistance	Annex F	IS 636	R	-do-	After every 15000 m of Hose length	-do-
6.18	Pressure Loss	Annex H	-do-	R	-do-	After every 15000 m of Hose length	-do-

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. 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.