



उत्पाद मैनुअल
अग्निशमन के लिए प्राथमिक सहायता होज़-रील
आई एस 884 : 2025 के अनुसार

PRODUCT MANUAL FOR
FIRST-AID HOSE-REEL FOR FIRE FIGHTING
ACCORDING TO IS 884 : 2025

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I 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। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

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.

1.	मानक संख्या IS No.	:	IS 884 : 2025
	शीर्षक Title	:	First-Aid Hose-Reel for Fire Fighting
	संशोधनों की संख्या No. of amendments	:	Nil
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Firm shall declare the materials for the manufacture of various parts of hose-reels given at Table 1 of IS 884:2025. Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/ Factory Surveillance
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer to Annex-A
c)	नमूने का परिमाण Sample Quantity	:	1 hose reel Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (incase of market surveillance, effort may be made to procure therequired quantity of product sample, as far as possible since raw

		material sample may not be available in market)
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	- Same as the scope of licence
3.	परीक्षण उपकरणों की सूची List of Test Equipment	: Please refer to Annex-B
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	: Please refer to Annex-C
5.	एक दिन में संभावित परीक्षण Possible tests in a day	
	(i) Resistance to leakage (Clause 5.2), (ii) Impact resistance test (Clause 5.3.1), (iii) Range and water flow rate (Clause 5.4 and 5.4.1), (iv) Swinging (Clause 5.5), (v) Reel action (Clause 5.6), (vi) Workmanship (Clause 6), (vii) Painting (Clause 7) Note: This section is for the guidance of BIS Certification Officers/Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide readyreference regarding the tests which can be witnessed during the inspection in the factory by the officer/auditor.	
6.	लाइसेंस का दायरा /Scope of the Licence:	
	Licence is granted to use Standard Mark as per IS 884 : 2025 with the following scope:	
	Name of the product	First-Aid Hose-Reel for Fire Fighting
	Type of Hose-reel	Type A/Type B
	Material of Construction	Aluminium/ Mild Steel/ Stainless Steel

भारतीय मानक ब्यूरो
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 New Delhi – 110002

ANNEX-A

Grouping Guidelines

1. First-Aid Hose-Reel for Fire Fighting as per IS 884 : 2025 is classified as below:

Type	Type A, Type B
Material of Construction	Aluminium, Mild Steel, Stainless Steel

2. Considering the above, the following grouping guidelines for GoL/ CSoL shall be followed:

Each Type of hose-reel and Material of Construction shall be tested to cover that particular Type of hose-reel and Material of Construction in the scope of licence.

3. The Firm shall declare the varieties (i.e. Type of hose-reel & Material of Construction) of First-Aid Hose-Reel for Fire Fighting they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

ANNEX-B

List of Test Equipment

(INDICATIVE LIST, FOR GUIDANCE ONLY)

S. No.	Tests used in with Clause Reference	Test Equipment
1.	Dimensions (Clause 4)	• Vernier caliper • Steel scale • Thread Ring gauge
2.	Hydrostatic pressure test (Clause 7.1)	• Testing arrangement for Hydrostatic test with pressure gauge and timer.
3.	Resistance to leakage (Clause 7.2)	• Pressure gauge, Water flow meter and pumping arrangement
4.	Impact resistance test (Clause 7.3.1)	• Steel hammer 25 kg and 125 OD
5.	Load Resistance Test (Clause 7.3.2)	• Load 80 kg
6.	Range and Water flow rate (Clause 7.4)	• Measuring Tape, • Pressure gauge, Water flow meter and pumping arrangement
7.	Swinging (Clause 7.5)	• Angle measurement arrangement
8.	Painting (Clause 8.2)	• Coat meter
9.	Resistance to impact test for nozzle (Clause 7.7)	• Pressure gauge, Water flow meter and pumping arrangement • Measuring tape • Concrete floor
10.	Ageing test for plastic made nozzle (Clause 7.8)	• Oven • Hygrometer / dry & wet bulb Thermometer
11.	Resistance to external corrosion test (Clause 7.9)	• Sodium chloride • Salt spray test apparatus as per IS 5528

ANNEX C

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: Hose-reels of same Type manufactured from same material in one day shall constitute a control unit.

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.

2.3 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.

2.4 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.

2.4.2 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.

2.5 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.

2.5.2 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.

2.6 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 PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be clearly and permanently marked on each hose-reel, provided always that the product so marked conforms to all requirements of the specification.

3.3 Marking shall be done as per Clause 10 of IS 884:2025.

3.4 **Additional Marking requirements:** Each reel/package shall also be marked with the following detail:

- a) “For BIS certification details please visit www.bis.gov.in”
- b) Type of hose-reel

4 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.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
5	Materials	5, Table 1	IS 884	S	One	Each Consignment/ Lot received	No further testing is required if accompanied with test certificate or ISI marked.
4	Dimensions	4.1, fig 1 to 4	IS 884	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
6	Construction	6	IS 884				
7	Performance Requirement -						
7.1	Hydrostatic pressure test	7.1	IS 884	R	One	Each control unit	-
7.2	Resistance to Leakage	7.2	IS 884	R	One	Each control unit	-
7.3.1, 7.3.2	Impact Resistance test (Strength Test)	7.3.1, 7.3.2 & Fig 5	IS 884	R	One	Once a month	All the varieties produced during the period shall be tested
7.3.3	Load resistance test	7.3.3 & Fig 6	IS 884	R	One		
7.4	Range and Water Flow rate	7.4	IS 884	R	One		
7.5	Swinging	7.5	IS 884	R	One	Each Hose Reel	-
7.6	Reel Action	7.6	IS 884	R	One	Each Hose Reel	-
7.7	Resistance to Impact test for nozzle	7.7	IS 884	R	One	Each control unit	-
7.8	Ageing test for Plastic made Nozzle	7.8	IS 884	R	One	Once a month	All the varieties produced during the period shall be tested

7.9	Resistance to external corrosion test	7.9	IS 884	S	One	Once in six months	All the varieties produced during the period shall be tested
8.1	Workmanship & finish	8.1	IS 884	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
8.2	Painting	8.2	IS 884				