



PM/ IS 11066/ 1/ Mar 2019

**PRODUCT MANUAL FOR**  
**Fibre Ropes - Polyester - 3-, 4-, 8- and 12-Strand Ropes**  
**According to IS 11066:2014/ISO 1141:2012**

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence 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 licence/certificate.

1.	<b>Product</b>	:	IS 11066:2014/ISO 1141:2012
	<b>Title</b>	:	Fibre Ropes- Polyester 3-, 4-, 8- and 12-Strand Ropes
	<b>No. of amendments</b>	:	1
2.	<b>Sampling Guidelines</b>		
a)	<b>Raw material</b>	:	Polyester Yarn (No specific requirement. No sample needs to be drawn)
b)	<b>Grouping Guidelines</b>	:	Please refer Annex - A
c)	<b>Sample Size</b>	:	30 m
3.	<b>List of Test Equipment</b>	:	Please refer Annex – B
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer Annex - C
5.	<b>Possible tests in a day</b>	:	<ul style="list-style-type: none"><li>• Construction, Manufacture, Marking, Delivery Length (Cl 5.2)</li><li>• Linear density and Minimum breaking force can be carried out in a day provided the sample are conditioned as per Cl. 4 of IS 7071 (Parts 1 to 3): 1989</li></ul>
6.	<b>Scope of the Licence</b>	:	Licence is granted to use Standard Mark as per IS 11066:2014/ISO 1141:2012 with the following scope
	<b>Name of the product</b>		Fibre Ropes - Polyester
	<b>Construction/Type</b>		A/B/L/T
	<b>Reference Number</b>		Upto and including .....

**Annex – A**

**GROUPING GUIDELINES**

1. Highest size (reference number) from each type (A, B, L & T) may be tested to cover the range of sizes under that type. (Separate samples of each type to be tested)
2. Either Unspliced or Spliced rope may be tested to cover both types.
3. However, it shall be verified that the manufacturer has the requisite manufacturing and testing facilities for the varieties to be covered.
4. During operation of licence, samples of all varieties to be drawn in rotation.

**Annex –B**  
**List of Test Equipment**

<b>Sr. No.</b>	<b>Test Equipment</b>	<b>Tests used in with Clause Reference</b>
1	Vernier caliper, Measuring scale, Weighing Scale	Construction Cl. 5.2
2	rope gauge/ vernier caliper, weighing balance capable of weighing to an accuracy of 1 percent, measuring tape, Tensioning device/Tensile testing machine	Linear density, Cl. 6.0, Tables 1, 2 and 3
3	Tensile testing machine – Constant rate traverse type, as per IS 7071-4, Measuring tape.	Minimum Breaking Force. Cl. 6.0, Tables 1, 2 and 3
4	Conditioning Chamber	For conditioning the sample

**Annex - C**

**SCHEME OF INSPECTION AND TESTING  
Fibre Ropes - Polyester - 3-, 4-, 8- and 12-Strand Ropes  
According to IS 11066:2014**

**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 the Schedule of the shall be incorporated on the labels securely attached at both ends of each coil of fibre ropes provided always that the rope in each coil to which this mark is applied conform to every requirement of the specification. The standard mark shall also be marked on each package containing such ropes.

3.1 Marking, packaging, labeling, invoicing and delivery length shall be in accordance with IS/ISO 9554. In addition, the following details shall be marked on labels affixed to each coil.

i) Licence No. (CM/L.....)

ii) BIS website details: For BIS Certification Details please visit [www.bis.gov.in](http://www.bis.gov.in)

**4. CONTROL UNIT** – All fiber ropes of same type and reference number manufactured in a day may be taken as one 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 shall be marked with Standard Mark.

**7. 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. Any rejected material which is potentially re-salable be 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 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.

**TABLE 1**  
**LEVELS OF CONTROL (Cl. 5 OF SIT)**

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or)S: Sub-contracting permitted	Recommended Levels of Control		
Cl.	Requirement	Test Methods Clause Reference			No. of Sample	Frequency	Remarks
5.2	Construction and manufacture	4	IS 9554:2010	R	All coils	Each control unit	-
"	Lay	5	"	R	3 coils	"	-
"	Marking and Labelling	7	"	R	"	"	-
"	Packaging, invoicing and delivered length	8	"	R	"	"	-
6.0 , Ta ble s 1, 2 an d 3	Linear Density		IS 7071 (Pt 1 to 3):1989	R	"	"	-
"	Minimum Breaking Force		IS 7071 (Pt 4): 1989	R	"	"	-

Note-1: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control and submit his own levels of control in column 3 with proper justification for approval by BO Head.