



उत्पाद मैनुअल  
TEXTILES – FLAT WOVEN WEBBING SLINGS MADE  
OF MAN-MADE FIBRES FOR GENERAL SERVICES  
IS 15041:2001 के अनुसार

PRODUCT MANUAL  
FOR TEXTILES – FLAT WOVEN WEBBING SLINGS MADE  
OF MAN-MADE FIBRES FOR GENERAL SERVICES  
ACCORDING TO IS 15041:2001

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना- I के तहत प्रमाणन के संचालन में अभ्यास और पारदर्शिता के संचालन में पारदर्शिता सुनिश्चित करने 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 लाइसेंस/प्रमाणपत्र 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 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.	उत्पाद Product	: IS 15041: 2001
	शीर्षक Title	: Flat Woven Webbing Slings Made of Man-Made Fibres for General Services
	संशोधनों की संख्या No. of amendments	: 1
2.	नमूना दिशानिर्देश Sampling Guidelines	
a)	कच्चा माल Raw material	Webbing shall be woven wholly from yarns of one of the following a) Polyamide (nylon) high tenacity continuous filament b) Polyester high tenacity continuous multifilament c) Polypropylene high tenacity continuous multifilament (conformity may be established through supplier's certificate)  End fittings shall be of metal, but not cast; they shall be shock resistant, they shall be shock resistant, They shall have breaking load of at least four times the maximum breaking load of the sewn webbing component. They shall have good resistance to ageing, fatigue and

			mechanical stress and to normal temperature ranges from -30°C t +80°C (conformity may be established through supplier's certificate)  If dye is purchased to make dyed slings, the dye shall not be toxic to human beings (conformity may be established through supplier's certificate)
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	NA
c)	नमूने का आकार Sample Size	:	5 nos.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer Annex-A
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer Annex-B
5.	<b>एक दिन में संभावित परीक्षण</b> <b>Possible tests in aday</b>		
	All tests possible.		
6.	<b>लाइसेंस का दायरा /Scope of the Licence:</b>		
	“Licence is granted to use Standard Mark as per IS 15041: 2001 with the following scope:		
	Name of the product	Flat Woven Webbing Slings Made of Man-Made Fibres for General Services	

**BUREAU OF INDIAN STANDARDS**  
**MANAK BHAVAN,9, BAHADUR SHAH ZAFAR MARG,**  
**NEW DELHI-110002**

## **ANNEX – A**

### **LIST OF TEST EQUIPMENTS**

**Major test equipment required to test as per the Indian Standard**

<b>Sr. No.</b>	<b>Test</b>	<b>Test Equipment</b>
1.	Dimensions	Scale/ measuring tape, Vernier caliper, micrometer.
2.	Thickness	Thickness tester with reference plate, presser foot, thickness gauge
3.	Proof testing, working load limit, maximum safe working load, safety factor.	Tensile testing machine, humidity chamber,

**The least count and range of test equipment should match value/ parameters/ tolerances mentioned in the Indian Standard.**

**The list above is indicative only and may not be considered as exhaustive**

## ANNEX B

### SCHEME OF INSPECTION AND TESTING

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

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

2. **TEST RECORD-** The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. **PACKING AND MARKING** - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on the label attached to each Flat Woven Webbing Slings Made of Man-Made Fibres for General Services provided always that the material so marked conforms to each requirement of the specification.

3.2 The label attached to each Flat Woven Webbing Slings Made of Man-Made Fibres for General Services shall also be marked with the following:

- a) Manufacturer's Name or Trade Mark
- b) Identification mark or number
- c) Material of webbing (e.g. polyester)
- d) Safe working load of the sling in basic configuration
- e) Month and year of manufacture
- f) BIS licence number and "For BIS certification details please visit [www.bis.gov.in](http://www.bis.gov.in)"
- g) Any other information required by the buyer

Note 1: Each sling may also be marked with information such as effective length, thickness, width and safe working loads for various modes of use.

Note 2: the material of webbing may additionally be identified by the colour of the label itself, in which case the following label colours shall be reserved exclusively for this use:

Polyamide (Nylon) – Green  
Polyester – Blue  
Polypropylene - Brown

4. **CONTROL UNIT-** For the purpose of this scheme, all Flat woven webbing slings made from same raw material and having same manufacturing particulars like width, thickness, safe working load manufactured under similar condition in a day shall constitute a control unit.

5. **LEVELS OF CONTROL :-** The tests as indicate in Table 1 and at the levels of controls in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark.

6. **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.

**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 Clause Reference			No. of Sample	Frequency	Remarks
4.1	Webbing						
4.1.1	Materials	4.1.1	IS 15041:2001	S	One	Each consignment	No testing is required if material is accompanied by supplier's test certificate
4.1.2	Weaving	4.1.2	-do-	R	Five	Every 8 hours	In case sample fails, draw 10 samples. If all the 10 samples pass, accept the batch, otherwise reject.
4.1.3	Width	4.1.3	-do-	R	-do-	-do-	-do-
4.1.4	Thickness	5.3	-do-	R	-do-	-do-	-do-

4.1.5	Dyeing	4.1.5	-do-	S	One	Each control unit	That the dye used for dyeing is not toxic to human beings may be established through dye supplier's certificate
4.1.6	Other treatments, after-treatments or coverings	4.1.6	-do-	S	One	Each control unit	The manufacturer shall maintain records of Other treatments, after-treatments or coverings done in production of slings and shall establish through either OSL test reports, supplier's test certificate or declaration/undertaking that these are not toxic to human beings
<b>4.2</b>	<b>Sewing of slings</b>						
4.2.1	-do-	4.2.1	-do-	R	One	Each control unit	
4.2.2 4.2.3 4.2.5 4.2.5.1	-do-	4.2.2 4.2.3 4.2.5 4.2.5.1	-do-	R	Each sling		
4.2.3.1 4.2.4 4.2.4.1	-do-	4.2.3.1 4.2.4 4.2.4.1	-do-	R	Five	Every hour	In case sample fails, draw 10 samples. If all the 10 samples pass, accept the batch, otherwise reject.
4.3 4.3.1 4.3.2	Soft eyes	4.3 4.3.1 4.3.2	-do-	R	Five	Every hour	-do-

4.4	<b>End fittings</b>						
4.4.1	General	4.4.1	IS 1504 1:200 1	R	One	Each control unit	
4.4.2	Material	4.4.2	-do-	S	One	Each consignment of fittings	No testing is required if material is accompanied by supplier's test certificate
4.4.3	Finish	4.4.3	-do-	R	One	Each control unit	
4.4.4	Form	4.4.4	-do-	R	-do-	-do-	
4.4.5	Proof Testing	5.4	-do-	R	-do-	-do-	
4.4.6	Re -use by the manufacture of end fittings returned by the user	4.4.6	-do-	R	Each returned end fitting		
4.5	Working load limit	5.1, 5.2	-do-	R	Each Sling		
4.6	Maximum safe working load	5.1,5.2 Table-1	-do-	R	one	250 or the part there of the slings of the same type	In case of failure the entire batch shall be rejected

4.7	Safety Factor	4.7	-do-	R	5	Every hour	In case sample fails, draw 10 samples. If all the 10 samples pass, accept the batch, otherwise reject.
-----	---------------	-----	------	---	---	------------	--

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 for approval by BO Head.