



**PRODUCT MANUAL FOR
WELDED STEEL WIRE FABRIC FOR GENERAL USE
ACCORDING TO IS 4948: 2002**

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.	Product	:	IS 4948: 2002
	Title	:	Welded Steel Wire Fabric for General Use
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	(i) MS Wire – IS 280 (ii) SS Wire – IS 6528
b)	Grouping guidelines	:	Any variety of welded steel wire fabric from each material of wire shall be tested to cover all the varieties for that particular material of wire.
c)	Sample Size	:	2 m
3.	List of Test Equipment	:	Please refer ANNEX – A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	Possible tests in a day:		
	All Tests		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 4948: 2002 with the following scope:		
	Name of the product	Welded Steel Wire Fabric for General Use	
	Material of Wire		

ANNEX A**List of Test Equipment**

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
1	Wire Diameter (Clause 5.4)	Micrometer
2	Spacing of Longitudinal and Transverse Wires (Clause 5.4)	Vernier Calipers
3	Mesh Size (Clause 5.5)	Vernier Calipers
4	Size of Sheet or Roll (Clause 5.6)	Measuring Tape
5	Weld Shear Test (Clause 6.1)	Fixture to prevent rotation of transverse wire Universal Testing Machine

The above list is indicative only and may not be treated as exhaustive.

ANNEX B

Scheme of Inspection And Testing

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 4948: 2002.

4. CONTROL UNIT – All welded steel wire fabric produced in a day from same batch of wires 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 R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Mild Steel Wire	-	IS 280	-	-	The material shall be ISI marked.	
4.2	Stainless Steel Wire	-	IS 6528	-	-		
5.4	Spacing of Longitudinal and Transverse Wires	5.4	IS 4948	R	Each Sheet or Roll		-
5.5	Size of Mesh	5.5	IS 4948	R	Each Sheet or Roll		-
5.6	Size of Sheet or Roll	5.6	IS 4948	R	Each Sheet or Roll		-
6.1	Weld Shear Test	6.1.1	IS 4948	R	One	-	-
10	Finish	10	IS 4948	R	Each Sheet or Roll		-

Note-1: 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.