



**उत्पाद मैनुअल**  
**आई एस 4948: 2020 के अनुसार**  
**सामान्य उपयोग के लिए वेल्डेड इस्पात तार फैब्रिक के लिए**  
**दस्तावेज़ संख्या-पी एम/आई एस 4948/3/ अगस्त 2021**

*भारतीय मानक ब्यूरो की स्कीम-1 (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसी द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।*

**PRODUCT MANUAL FOR**  
**WELDED STEEL WIRE FABRIC FOR GENERAL USE**  
**ACCORDING to IS 4948:2020**

**Document No.-PM/IS 4948/3/ August 2021**

*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.*

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## PRODUCT MANUAL FOR WELDED STEEL WIRE FABRIC FOR GENERAL USE ACCORDING TO IS 4948: 2020

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|    |                                                                                         |                                          |                                                                                                                                                     |
|----|-----------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Product</b>                                                                          | :                                        | IS 4948: 2020                                                                                                                                       |
|    | <b>Title</b>                                                                            | :                                        | Welded Steel Wire Fabric for General Use                                                                                                            |
|    | <b>No. of Amendments</b>                                                                | :                                        | One                                                                                                                                                 |
| 2. | <b>Sampling Guidelines:</b>                                                             |                                          |                                                                                                                                                     |
| a) | <b>Raw material</b>                                                                     | :                                        | (i) MS Wire – IS 280<br>(ii) SS Wire – IS 6528                                                                                                      |
| b) | <b>Grouping guidelines</b>                                                              | :                                        | 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) | <b>Sample Size</b>                                                                      | :                                        | 2m                                                                                                                                                  |
| 3. | <b>List of Test Equipment</b>                                                           | :                                        | Please refer ANNEX –A                                                                                                                               |
| 4. | <b>Scheme of Inspection and Testing</b>                                                 | :                                        | Please refer ANNEX –B                                                                                                                               |
| 5. | <b>Possible tests in a day:</b>                                                         |                                          |                                                                                                                                                     |
|    | All Tests                                                                               |                                          |                                                                                                                                                     |
| 6. | <b>Scope of the Licence:</b>                                                            |                                          |                                                                                                                                                     |
|    | “Licence is granted to use Standard Mark as per IS 4948: 2020 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<br>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: 2020.

**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<br>requirement<br>R: required (or)<br>S: Sub-contracting<br>permitted | Levels of Control  |           |                                   |
| Cl.          | Requirement                                     | Test Method |           |                                                                                      | No. of<br>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<br>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.