



**PRODUCT MANUAL FOR  
CANE FOR VISUALLY HANDICAPPED - FOLDING TYPE  
ACCORDING TO IS 11646 (Part 2): 1986**

*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 11646 (Part 2): 1986   |
|    | <b>Title</b>  | :  | Cane for Visually Handicapped - Folding type                          |
|    | <b>No. of Amendments</b>  | :  | Two   |
| 2. | <b>Sampling Guidelines:</b>   |  |   |
| a) | <b>Raw material</b>   | :  | As per Cl. 3 and 4 of IS 11646 (Part 2): 1986                         |
| b) | <b>Grouping guidelines</b>  | :  | Not Applicable as only one variety of cane is covered in the Standard |
| c) | <b>Sample Size</b>  | :  | One cane  |
| 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 11646 (Part 2): 1986 with the following scope: |  |   |
|    | Name of the product   | Folding type cane for visually handicapped |   |

**ANNEX A****List of Test Equipment**

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

| <b>Sl. No.</b> | <b>Tests used in with Clause Reference</b> | <b>Test Equipment</b>   |
|----------------|--|---|
| 1.             | Construction, Cl. 4                        | Steel Scale, Vernier Caliper, Micro Meter, Measuring tape, weighing scale |
| 2.             | Endurance test, Cl. 6.1                    | Manual/Mechanical means for folding and unfolding                         |

*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 11646 (Part 2):1986.

**4. 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.

**4.1** All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

**5. 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<br>R: required (or)<br>S: Sub-contracting permitted | Levels of Control  |                  |   |
| Cl.          | Requirement            | Test Method    |                   |  | No. of Sample  | Frequency        | Remarks   |
|              |                        | Clause         | Reference         |  |  |                  |   |
| 3            | Material               | Cl. 3.1 to 3.5 | IS 11646 (Part 2) | S  | One  | Each consignment | No further testing is required if accompanied with test certificate or ISI marked.                    |
| 4            | Construction           | Cl.4.1 to 4.4  | IS 11646 (Part 2) | R  | Each cane  |                  | Any cane not meeting the requirement shall not be marked and shall be rejected.                       |
| 5            | Workmanship and Finish | Cl.5           | IS 11646 (Part 2) | R  | Each cane  |                  |   |
| 6            | Endurance test         | Cl.6.1         | IS 11646 (Part 2) | R  | Once in a week or whenever there is any change in material or construction |                  | If any sample fails, two more samples to be tested. Lot to be accepted only if both the samples pass. |

Note-1: 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.