



**उत्पाद मैनुअल**  
**तिपहिया साईकिल एकल हाथ चालित**  
**(दाएं / बाएं) (जूनियर आकार)**  
**आईएस 17155: 2025 के अनुसार**

**PRODUCT MANUAL FOR**  
**Tricycle, Single Hand Propelled**  
**(Right / Left) (Junior Size)**  
**as per IS 17155: 2025**

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता 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 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 uniformity 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.*

|    |                                                                                              |   |                                                                                       |
|----|----------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|
| 1. | मानक संख्या<br>IS No.                                                                        | : | IS 17155: 2025                                                                        |
|    | शीर्षक<br>Title                                                                              | : | Tricycle, Single Hand Propelled<br>( Right / Left ) ( Junior Size )                   |
|    | संशोधनों की संख्या<br>No. of amendments                                                      | : | None                                                                                  |
| 2. | नमूना दिशानिर्देश<br>Sampling Guidelines                                                     |   |                                                                                       |
| a) | कच्चा माल<br>Raw material                                                                    | : | As per Cl. 4, Cl. 6.1, Cl. 6.3, Cl. 6.4, Cl. 6.5, Cl. 6.7, Cl. 6.10 of IS 17155: 2025 |
| b) | समूहीकरण दिशानिर्देश<br>Grouping Guidelines                                                  | : | Each type of hand driven Tricycle is to be tested                                     |
| c) | नमूने का परिमाण<br>Sample Quantity                                                           | : | One Tricycle                                                                          |
| d) | परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर<br>Parameters to be Declared in Test Request | : | <ul style="list-style-type: none"> <li>Type of Hand drive</li> </ul>                  |

|                                                                                                 |                                                                  |                                                                     |                        |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|------------------------|
|                                                                                                 |                                                                  |                                                                     |                        |
| 3.                                                                                              | परीक्षण उपकरणों की सूची<br>List of Test Equipment                | :                                                                   | Please refer ANNEX – A |
|                                                                                                 |                                                                  |                                                                     |                        |
| 4.                                                                                              | निरीक्षण और परीक्षण की स्कीम<br>Scheme of Inspection and Testing | :                                                                   | Please refer ANNEX – B |
| 5.                                                                                              | एक दिन में संभावित परीक्षण<br>Possible tests in a day            | :                                                                   | All tests              |
| 6.                                                                                              | लाइसेंस का दायरा /Scope of the Licence:                          |                                                                     |                        |
| “License is granted to use Standard Mark as per <b>IS 17155: 2025</b> with the following scope: |                                                                  |                                                                     |                        |
| Name of the product                                                                             |                                                                  | Tricycle, Single Hand Propelled<br>( Right / Left ) ( Junior Size ) |                        |
| Type of Hand Drive                                                                              |                                                                  | Right Hand Drive / Left Hand Drive                                  |                        |

**ANNEX- B**  
**LIST OF TEST EQUIPMENTS**  
**(INDICATIVE LIST, FOR GUIDANCE ONLY)**

| Sl. No. | Tests used in with Clause Reference      | Test Equipment                                                                                                                                                                  |
|---------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Shape & Dimensions (Cl. No. 4 & Table 1) | Dial/digital vernier caliper<br>Steel scale<br>Weighing Scale<br>Bevel protractor                                                                                               |
| 2       | Requirements (Cl. No 6)                  | Micrometer<br>Try square for right angle testing<br>Level measurement instruments<br>Platform for tricycle dimension.                                                           |
| 3       | Road test (Cl. No 8.1)                   | Hard surface road in the locality<br>Speedometer<br>Measuring tape<br>rider of weight $70 \pm 5$ kg                                                                             |
| 5       | Static Load Test (Cl. No. 8.3)           | 20 kg weight – 01 no<br>100 kg weight – 02 no<br>Stopwatch                                                                                                                      |
| 6       | Brake Test (Cl. No. 8.4)                 | Dry hard 8 percent gradient surface<br>and dry hard level surface in the<br>locality without dirt and gravels<br>Speedometer<br>Measuring tape<br>Rider of weight $70 \pm 5$ kg |
| 7       | Test for finish (Cl. No. 8.5)            | Apparatus for test for finish<br>Solid Steel ball of diameter 13mm                                                                                                              |

## ANNEX C

### SCHEME OF INSPECTION AND TESTING

#### 1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with Para 2.1.

#### 1.2 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.2.1 For the guidance of manufacturers, the recommended definition of control unit is: *Tricycle, Single Hand Propelled (Right / Left) (Junior Size) manufactured in a day from same consignment of raw material* shall constitute a control unit.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

**2. ENSURING COMPLIANCE THROUGH TESTING-** manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

i. Shared testing resources like common facility,

ii. Cluster based testing facility,

iii. Sub-contracting to outside laboratories which may either be:

a. BIS recognised/empanelled laboratories, or

b. Any accredited laboratory as per ISO/IEC 17025

2.1 **TEST RECORDS-** The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

**3. PACKING AND MARKING** - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on the packaging of the Cylindrical Rollers provided always that the Cylindrical Rollers so marked conforms to each requirement of the specification.

3.1 Marking shall be done as per Cl. 12.3 of IS 9202: 2020.

3.2 **Additional Marking requirements:** The Cylindrical Rollers shall also be marked with the following additional requirement on its packaging:

a) “For BIS certification details please visit [www.bis.gov.in](http://www.bis.gov.in)”

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

**4. HYGIENIC CONDITIONS (if applicable) – NA.**

**5. 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**

| (1)          |                          |              |           | (3)                                                                                                                                                                                                                                 |                                           |                                                                                        |
|--------------|--------------------------|--------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------|
| Test Details |                          |              |           | Levels of Control                                                                                                                                                                                                                   |                                           |                                                                                        |
| Cl.          | Requirement              | Test Methods |           | No. of Sample                                                                                                                                                                                                                       | Frequency                                 | Remarks                                                                                |
|              |                          | Clause       | Reference |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 4            | Materials                | 4.1 to 4.8   | IS 17155  | One                                                                                                                                                                                                                                 | Each consignment                          | No further testing is required if accompanied with the Test Certificate or ISI marked. |
| 6.1          | Frame                    | 6.1          |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.3          | Tyres and Tubes          | 6.3          |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.4          | Wheel Rims               | 6.4          |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.10         | Drive Chain              | 6.10         |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 5            | Shape and Dimension      | 5 & Table 1  | IS 17155  | Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity |                                           |                                                                                        |
| 6            | Requirements             |              |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.2          | Steering and Handle Bar  | 6.2          | IS 17155  | Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity |                                           |                                                                                        |
| 6.5          | Mudguards                | 6.5          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.6          | Brakes                   | 6.6          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.7          | Sprockets and free wheel | 6.7          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.8          | Front wheel hub          | 6.8          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.9          | Rear Wheel Hub           | 6.9          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.11         | Toolbox                  | 6.10         | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.12         | Lubrications             | 6.12         | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.14         | Accessories              | 6.14         | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 6.15         | Servicing and Adjustment | 6.15         | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 7            | Finish                   | 7.1 to 7.2   | IS 17155  | One                                                                                                                                                                                                                                 | Each batch of Surface condition treatment | Test to be carried out based on the type of finish declared                            |
| 8            | Tests                    |              |           |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 8.1          | Road test                | 8.1          | IS 17155  | Each tricycle                                                                                                                                                                                                                       |                                           |                                                                                        |
| 8.2          | Manoeuvrability          | 8.2          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 8.4          | Brake Test               | 8.4          | IS 17155  |                                                                                                                                                                                                                                     |                                           |                                                                                        |
| 8.3          | Static Load test         | 8.3          | IS 17155  | One                                                                                                                                                                                                                                 | Once in every three months                | For each type of Hand driven tricycle manufactured during the period                   |
| 8.5          | Test for Finish          | 8.5          | IS 17155  | One                                                                                                                                                                                                                                 | Each batch of Surface condition treatment | Test to be carried out based on the type of finish declared                            |