



**PRODUCT MANUAL
FOR
TRICYCLE, HAND PROPELLED
ACCORDING TO IS 8088: 2019**

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 8088: 2019
	Title	:	Tricycle, Hand Propelled
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per the requirements of Clause 5, 6.1, 6.3, 6.4, 6.7, 6.10 and 6.14 of IS 8088:2019
b)	Grouping guidelines	:	Grouping guidelines is not applicable as only one variety of tricycle is covered in the standard.
c)	Sample Size	:	2 tricycles
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 8088: 2019 with the following scope:		
	Name of the product		Tricycle, Hand Propelled

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	Shape & Dimensions (CI No 4)	Measuring tape, steel scale, Vernier caliper
2	Requirements (CI No 6)	Screw gauge, Try square for right angle testing, Level measurement instruments, Angle protector, Scratch hardness tester, Platform for tricycle dimension
3	Finish (CI No 7)	Water, Wash Cloth
4	Road test (CI No 8.1)	Hard surface road in locality, speedometer, 1 kN load weight, Measuring tape
5	Maneuverability (CI No 8.2)	Speedometer
6	Static load test (CI No 8.3)	50 kg weight- 3 no, 100 kg weight, 200 kg weight, stop watch
7	Brake test (CI No 8.4)	Hard surface road without dirt and gravels- 5 % and 8 % gradient in locality, speedometer, measuring tape, rider of weight- 70 ± 5 kg
8	Test for Finish (CI No 8.5)	Apparatus for test for finish, solid steel ball of diameter- 13mm

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 equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirements of IS 8088:2019.

4. CONTROL UNIT – Tricycles produced from the same consignment of materials and under similar conditions of production in one month shall be considered as 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 Standard 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 Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
5	Materials	5	IS 8088	-	One	Each consignment	#
4	Shape and Dimensions	4	IS 8088	R	10% with min 5 and max 15 nos.	Each Control Unit	
6	Requirements	6.1, 6.2, 6.4-6.9, 6.11, 6.12, Fig 1	IS 8088	R	One	Each Control Unit	
		6.3, 6.10, 6.13-6.18			Each tricycle		*
7	Finish	7	IS 8088	R	One	Each Control Unit	
8.1	Road test	8.1	IS 8088	R	Each tricycle		
8.2	Maneuverability	8.2	IS 8088	R	Each tricycle		
8.3	Static Load test	8.3	IS 8088	S	One	Each Control Unit	
8.4	Brake test	8.4	IS 8088	S	One	Each Control Unit	
8.5	Test for finish	8.5	IS 8088	R	10% with min 5 and max 15 nos.	Each Control Unit	

No further testing is required if accompanied with the Test Certificate or ISI marked.

*Test of Cl 6.15 subject to requirement of Hood by purchaser

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.