



PRODUCT MANUAL FOR BICYCLE –MUDGUARDS ACCORDING TO IS 6218:2008

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 6218:2008
	Title	:	BICYCLE – MUDGUARDS
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per clause 3 of IS 6218:2008
b)	Grouping guidelines	:	Mudguards of any one size shall be tested to cover all the sizes in the scope of Licence.
c)	Sample Size	:	Two pairs of Bicycle Mudguards
3.	List of Test Equipment	:	Please refer <u>ANNEX – A.</u>
4.	Scheme of Inspection and Testing	:	Please refer <u>ANNEX – B.</u>
5.	Possible tests in a day :		
	i) Dimensions (Clause 4.1) ii) Manufacture and Finish (Clause 4.2 and 4.3) iii) Ball Drop Test (Clause 5.1) iv) Paint Dipping Test (Clause 5.2) v) Warping Test (Clause 5.3)		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 6218:2008 with the following scope:		
	Name of the product	Bicycle Mudguards	
	Size		
7.	Any other Product Specific guidelines	Please refer ANNEX-C on Guidelines on sharing of manufacturing facilities between BIS licensees for carrying out certain specific manufacturing activities	

BUREAU OF INDIAN STANDARDS
Manak Bhawan, 9, Bahadur Shah Zafar Marg,
New Delhi – 110002

ANNEX - A**List of Test Equipments**

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Dimensions as per <i>clause 4.1</i>	a) Vernier Caliper b) Micrometer c) Scale
2.	Ball Drop Test as per <i>clause 5.1</i>	a) Solid Steel Ball b) Scale
	Paint Dipping Test as per <i>clause 5.2</i>	a) Mild Steel Tank with rubber lining b) Thermocouple c) Temperature Controller d) NaCl Solution e) Stop Watch
	Warping Test as per <i>clause 5.3</i>	a) Surface Plate b) Scale

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 6218: 2008. The Standard Mark, as given in the Schedule of the licence, shall be marked on each Mudguard provided always that the mudguard thus marked conforms to all the requirement of the specification.. In addition, the licence no. CM/L-_____ and details of BIS website shall be marked at an appropriate place as follows: “For details of BIS certification please visit www.bis.gov.in”

4. CONTROL UNIT – All Mudguards manufactured, in a day 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. Please refer ANNEX-C also regarding guidelines on Sharing of manufacturing facilities between BIS licensees for carrying out certain specific manufacturing activities

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	Levels of Control		
Cl.	Requirement	Test Methods		R: required (or) S: Sub-contracting permitted	No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Material	3	IS 6218	S	—	Each Consignment	No further testing is required, if accompanied with test certificate or ISI marked
4	Manufacture, Workmanship and Finish	4	IS 6218	R	—	Each Mudguard	
5	TESTS						
	Ball Drop Test	5.1	IS 6218	R	Three Mudguard	Every Control unit	
	Paint Dipping Test	5.2	IS 6218	R	One Mudguard		
	Warping Test	5.3	IS 6218	R		Each Mudguard	

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.

NOTE-3: In case of agreement between 2 manufacturers (holding BIS license for this product) for supplying the semi-finished product, then the supplier licensee will carry out all tests as per Cl 3,4 and 5.3 of IS 6218. Receiver licensee will carry out all tests as per SIT in his factory and bear the responsibility for the final quality of the product dispatched and sold with BIS Standard Mark. Please refer ANNEX-C of this Manual for details.

ANNEX-C

Guidelines on sharing of manufacturing facilities between BIS licensees for carrying out certain specific manufacturing activities for Bicycle Mudguards as per IS 6218: 2008

Definitions:

- a) **Pre- Painting stages:** Manufacturing processes including Cutting, Forming of Sheet, etc. till the stage from where the surface preparation for finishing operation starts.
- b) **Painting stages:-** Manufacturing processes including Surface preparation, phosphating, painting and final labeling and marking.
- c) **Supplier licensee:-** Licensee who shares his pre-painting facility and supplies semi-finished goods (up to Pre-painting stages) to another licensee (called Receiver licensee) for painting operations.
- d) **Receiver licensee:** Licensee who carries out painting activities on semi-finished goods received from another licensee (called Supplier licensee).

Guidelines:

If two or more than two BIS licensees agree among themselves to share their manufacturing facilities for Pre-painting and Painting stages among each other, then the same may be permitted, subject to fulfillment of the following:

- i) All such manufacturers who intend to share the facilities, shall have BIS licence for Bicycle Mudguards as per IS 2061: 1995.
- ii) The product shall be marked with BIS Certification Marks licence no. of the receiver licensee.
- iii) Information for all such semi-finished products shall be submitted by both supplier as well as receiver licensee to BIS. List of consignees along with details of goods shall be submitted by supplier licensee on quarterly basis to BIS. The receiver licensee shall also submit the list of all suppliers with details of goods received to BIS on quarterly basis.
- iv) There shall be proper record maintenance of all such semi-finished products indicating quantity, Batch No./ Date of manufacturing, date of supply and receipt etc. both at supplier as well as receiver licensee end. Records of in-process inspections shall be maintained. The supplier licensee will carry out all tests as per Cl 3,4 and 5.3 of IS 6218. Receiver licensee will carry out all tests as per SIT in his factory and bear the responsibility for the final quality of the product dispatched and sold with BIS Standard Mark.
- v) In case of failure of products or complaints on quality of products, actions as per BIS Rules shall be taken against the receiver licensee as the product is to be marked with his licence number and he bears the onus for final quality of the product