



**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 ANNEX – A.
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B.
5.	Possible tests in a day :		
	i) Dimensions (<i>Clause 4.1</i>) ii) Manufacture and Finish (<i>Clause 4.2 and 4.3</i>) iii) Ball Drop Test (<i>Clause 5.1</i>) iv) Paint Dipping Test (<i>Clause 5.2</i>) v) Warping Test (<i>Clause 5.3</i>)		
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		

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ANNEX - AList 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.

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.

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.