



**PRODUCT MANUAL FOR
REHABILITATION EQUIPMENT –
WHEELCHAIRS, FOLDING, JUNIOR SIZE
ACCORDING TO IS 8086: 1991**

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 8086 : 1991
	Title	:	Rehabilitation Equipment – Wheelchairs, Folding, Junior Size
	No. of Amendments	:	4
2.	Sampling Guidelines:		
a)	Raw material	:	As per Cl 6 of IS 8086
b)	Grouping guidelines	:	Not Applicable
c)	Sample Size	:	One Wheelchair
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 8086 : 1991 with the following scope:		
	Name of the product	Rehabilitation Equipment – Wheelchairs, Folding, Junior Size	
	Type	Type 1/ Type 2	

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 and Dimension (Clause 5 and Table 1)	(i) Bevel Protractor (ii) Steel Scale (iii) Vernier Calliper (iv) Weighing Balance
2	Test for Wheeling (Clause 9.1)	50 kg load
3	Hazard Running Test (Clause 9.2)	(i) 75 kg load (ii) Test platform with hazard having a vertical drop of 10mm
4	Load Test (Clause 9.3)	50 kg load

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 8086: 1991.

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 R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
6	Materials	6	IS 8068	S	One	Each consignment	No further testing is required if accompanied with the Test Certificate or ISI marked.
7	Requirements	5.1, 7, Table 1	IS 8086	R	Each wheelchair	-	
8	Finish	8	IS 8086	R	Each wheelchair	-	
9.1	Test for Wheeling	9.1	IS 8086	R	Each wheelchair	-	
9.2	Hazard Running Test	9.2	IS 8086	R	One	Once in three months or every 500 chairs, whichever is earlier	
9.3	Load test	9.3	IS8086	R	One	Once in three months or every 500 chairs, whichever is earlier	
9.4	Test for Folding	9.4	IS 8086	R	Each wheelchair	-	

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 B.O. Head.