



उत्पाद मानुयल
हस्तचालित भुरकाव यंत्र भाग 1 पेट पर रखा जाने वाला

5135 (भाग 1) : 1994 के अनुसार

PRODUCT MANUAL
FOR HAND-ROTARY DUSTER PART 1 BELLY-MOUNTED TYPE
ACCORDING TO IS 5135 (Part 1) : 1994

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-1 के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंस धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेंस/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

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.	उत्पाद Product	:	IS 5135 (Part 1) : 1994
	शीर्षक Title	:	हस्तचालित भुरकाव यंत्र भाग 1 पेट पर रखा जाने वाला Specification for Hand-Rotary Duster Part 1 Belly-Mounted Type
	संशोधन संख्या No. of Amendments	:	02
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	N.A
c)	नमूने का परिमाण Sample Size	:	1 Set
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please refer ANNEX – A

4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please refer ANNEX – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day : All tests are possible to be carried out in a day.		
6.	लाइसेन्स का कार्यक्षेत्र /Scope of the Licence :		
	IS 5135 Part 1 : 1994 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है “Licence is granted to use Standard Mark as per IS 5135 (Part 1) : 1994 with the following scope:		
	उत्पाद का नाम Name of the product	हस्तचालित भुरकाव यंत्र भाग 1 पेट पर रखा जाने वाला Hand-Rotary Duster Part 1 Belly-mounted type	
	नाममात्र क्षमता Nominal capacity	0.004 to 0.006 m ³ (± 5%)	

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ANNEX- A
TO PRODUCT MANUAL
FOR HAND-ROTARY DUSTER PART 1 BELLY-MOUNTED TYPE
ACCORDING TO IS 5135 (PART 1) : 1994
LIST OF TEST EQUIPMENT

Major test equipment required to test as per the Indian Standard

S. No.	Tests used in with Clause Reference	Test Equipment
1	Test for Agitation Cl. 5.3.1	Talc Powder, Weighing Scale (LC 1g), 75 mm IS test Sieve, Graduated Cylinder, Funnel
2	Strap Test Cl. 5.11.1	Talc Powder, Solid Support, Vernier Calliper, Measuring tape
3	Total Mass Cl.5.13	Weighing Balance (LC 1g)
4	Capacity Cl.6	Measuring cylinder/Weighing balance (LC 1g)
5	Air Output Test Cl.7.1	Coupling Hose, Pitot Tube, Manometer
6	Dust Delivery rate Cl.7.2	Talc Powder, Weighing Scale, Stopwatch, Flowmeter, Tachometer
7	Dust Throw Test Cl.7.3	Talc Powder, Measuring Tape, Tachometer
8	Leakage Test Cl.7.4	Talc Powder, Tachometer, Stop watch

The above list is indicative only and may not be treated as exhaustive.

ANNEX B

SCHEME OF INSPECTION AND TESTING FOR HAND-ROTARY DUSTER PART 1 BELLY-MOUNTED TYPE ACCORDING TO IS 5135 (PART 1) : 1994

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 – The Standard Mark, as given in the Schedule of the licence shall be stamped on each Hand-Rotary Duster, provided always that Hand-Rotary Duster so marked conforms to every requirements of the specification.

3.1 Each Hand-Rotary Duster shall be marked with details as mentioned under clause 9.1 of IS 5135 (Part 1). In addition, the following details shall be marked on each Hand-Rotary Duster:

- a) Licence Number (CM/L No.)
- b) BIS website details i.e. – “For details of BIS certification please visit www.bis.gov.in”.

4. CONTROL UNIT – For the purpose of this scheme, all the Rotary dusters manufactured in one shift shall constitute one control unit.

5. LEVELS OF CONTROL – The tests as indicated in column 1 of Table 1 and the levels of control submitted by the manufacturer 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. RAW MATERIAL – Each consignment of raw material for any component part should be accompanied by a test certificate guaranteeing its conformity to clause 4, Table 1 of the specification. Alternately, the manufacturer shall make necessary arrangement for occasionally getting tested or testing samples from consignments of the raw material received.

6.1 The material of construction of various components of the duster shall be selected from col. 3 of Table 1 of IS 5135 Part 1.

6.2 All metallic parts coming in contact with the pesticide should preferably be of the same material to minimize electrolytic potential deterioration.

6.3 The material used for different components shall be declared by the manufacturer in the parts catalogue/manual.

6.4 The manual shall include technical specifications of the duster, material of construction of various components shown in the exploded view of the duster, instruction for operations and maintenance, common faults and their remedies and safety precautions.

7. 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
LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method Cl. Ref.	Test Method IS		No. of Sample	Frequency	Remarks
5.1	Hopper and Filling Hole	5.1	IS 5135 (Part 1)	R	Every 10 th Hopper		In case of failure, two more samples shall be tested and both should pass
5.2	Feed Control device	5.2	IS 5135 (Part 1)	R	Each Component		
5.3	Agitator	5.3	IS 5135 (Part 1)	R	Each Component		
5.3.1	Test of Agitation	6.1	IS 12482	R	Every 10 th Duster in the Control Unit		In case of failure, two more samples shall be tested and both should pass
5.4	Gear Box & Gears	5.4	IS 5135 (Part 1)	R	Each Component		
5.5	Crank	5.5	IS 5135 (Part 1)	R	Each Component		
5.6	Rest Plate	5.6	IS 5135 (Part 1)	R	Each Component		
5.7	Fan	5.7	IS 5135 (Part 1)	R	Each Component		
5.8	Coupling Hose	5.8	IS 5135 (Part 1)	R	Each Component		
5.9	Delivery pipe	5.9	IS 5135 (Part 1)	R	Each Component		
5.10	Deflector	5.10	IS 5135 (Part 1)	R	Each Component		
5.11	Straps & Cushion	5.11	IS 5135 (Part 1)	R	Every 10 th Strap & Cushion		
5.12	Bearing	5.12	IS 5135 (Part 1)	R	Each Component		

5.13	Total mass	5.13	IS 5135 (Part 1)	R	Every 50 th duster in the Control Unit		
5.11.1	Strap Test	6.3	IS 12482	R	One	Every Control Unit	
6.	Capacity	6.1	IS 5135 (Part 1)	R	Each Duster		
<u>PERFORMANCE REQUIREMENTS</u>							
7.1	Air Output Test	5.1	IS 12482	R	Five	Every Control Unit	Samples shall be drawn at equal intervals
7.2	Dust delivery rate	5.2	IS 12482	R	-do-	Every Control Unit	-do-
7.3	Dust Throw test	5.3	IS 12482	R	-do-	Every Control Unit	-do-
7.4	Leakage test	5.4	IS 12482	R	-do-	Every Control Unit	-do-
8.	Workmanship & Finish	8.1 & 8.2	IS 5135 (Part 1)	R	Every piece		

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled 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.