



उत्पाद मानुयल
एयर बीज क्लीनर के लिए विशिष्टता
IS 11041:1984 के अनुसार

PRODUCT MANUAL FOR
Specification for Air Seed Cleaner as per IS 11041:1984

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांक विनियम की स्कीम-I) के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन में रीति और पारदर्शिता के सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेन्स/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 11041:1984
	शीर्षक Title	:	Specification for Air Seed Cleaner
	संशोधन संख्या No. of amendments	:	NIL
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Mild Steel as per IS 2062, IS 513 (Part 1) etc. shall be used in the fabrication of various components of the cleaners. The steel received shall be ISI marked only and shall be received along with Mill Test Certificate(s). Steel sheets used shall not be less than 0.7 mm thick. Sieves used in the cleaners shall be manufactured from material specified in IS 2405 (Part 2). The material for various components shall be declared by

			the manufacturer and means to establish quality of the materials being used shall also be defined by the manufacturer.
b)	समूहिकरण दिशा निर्देश Grouping Guidelines	:	One sample of cleaner of each model for cleaning of each type of seed of the highest rated input capacity shall be drawn and tested to cover cleaners of lower rated input capacities for that model for cleaning that type of seed. Manufacturer shall submit declarations as per Annex A and Annex B of IS 5718 for the seed cleaner offered during inspection
c)	नमूने का परिमाण Sample Size	:	<u>GoL/CSoL</u> Since the seed cleaner is a bulky machine, licence is to be operated on factory testing basis except for the requirements of Long Run Test (as per cl.9.2 of IS 5718 (referred at cl.4.3. of IS 11041)) (test to be carried out for 50 h) for which sample (1 No.) may be drawn for testing at the one of the Govt Agricultural Testing Institutes (empaneled by BIS), for the purpose of GoL/CSoL only <u>Surveillance</u> 1) For the purpose of factory surveillance, a 2 day factory inspection shall be carried out and all tests as per IS 11041 shall be carried out during Factory Testing on at least 1 model of cleaner available. No sample shall be drawn for the requirement of Long Run Test during factory surveillance. 2) Sample of ISI marked steel (as per IS 2062, IS 513 (Part 1) etc.)) used for manufacture of components shall be drawn during factory surveillance for testing at labs recognized for the respective steel products. These samples shall be treated as market samples of the licensees of steel. 3) The documents establishing traceability of the ISI marked steel such as Mill Test Certificate, Invoice etc. shall be verified before drawl of samples and if possible a copy of these documents may also be collected for reference. 4) No Market Samples shall be drawn for the product.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer Annex – B
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer Annex - C
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	All Tests are possible to be carried out in a day except for Long Run Test (as per cl.9.2 of IS 5718 (referred at cl.4.3. of IS 11041))

6.	लाइसेन्स का कार्यक्षेत्र /Scope of the Licence :	
	IS 11041:1984 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्य क्षेत्र के लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per IS 11041:1984 with the following scope:	
	Name of the product	Specification for Air Seed Cleaner
	Type of Seed	Paddy, Pulses etc.
	Model	As per Annex A (Specification Sheet) of IS 5718
	Rated Input Capacity (quintals/kWh)	2500 quintals/kWh

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Annexure A to the Product Manual of
Specification for Air Seed Cleaner
as per IS 11041:1984

LIST OF TEST EQUIPMENT

Major test equipment essentially required to test as per requirements of
Indian Standard.

Sl. No.	Tests Used in with Clause Reference	Test Equipment/Chemicals and Identification Numbers (Where applicable)
1	Test at No Load, cl.4.1. (cl.8. of IS 5718), Long Run Test, cl.4.3 (cl.9.2 of IS 5718)	Power Source, Energy Meter or Dynamometer, Stop Watch
2.	Rated Input Capacity, cl.4.2., cl.4.2.1 (cl.9.1.6 of IS 5718)	Power Source, Energy Meter or Dynamometer, Stop Watch, Sufficient Quantity of Seeds (Min 98 % purity), Weighing Scale, Tray or Mat for collection for Foreign Matter, Bag for collection of dust, Wattmeter, Magnifying Glass
3.	Constructional Requirements (cl.5.1 to cl.5.1.6)	Vernier Caliper, Stop Watch, Depth Gauge, Cord, Flat Surface, Steel Tape, 120 kg Weight, Vibration Meter, Tachometer, Anemometer, Bevel Protractor, Flat Micrometer, Scoop, Dessicator, Steel Scale

Note 1: The above is an indicative list for the purpose of guidance only and may not be treated as exhaustive

ANNEXURE C
TO PRODUCT MANUAL FOR
Product Manual of
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SCHEME OF INSPECTION AND TESTING

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 and implement 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, MARKING, PACKING - The Standard Mark as given in schedule of the licence and Licence Number (i.e. CM/L) shall be incorporated on each cleaner and the marking and packing shall be done as per the provisions of the Indian Standard, provided always that the product thus marked conform to all the requirements of the specification.

4. CONTROL UNIT – For the purpose of this scheme, a control-unit is defined as the same model of cleaners for cleaning of the same type of seed and same rated input capacity manufactured in a week

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.

All the production which conforms to the Indian Standards 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: LEVELS OF CONTROL

(1)				(2)	(3)		(4)
TEST DETAILS					LEVELS OF CONTROL		REMARKS
Clause	Requirements	Test Method		Test equipment requirement R: required (or) S: Sub-contracting permitted	No. of Samples	Frequency	
		Clause	Reference				
4	Performance Requirements						
4.1	Test at No Load	8.1	IS 11041 IS 5718	R	Each Cleaner	Each Cleaner	-----
4.2, 4.2.1	Rated Input Capacity	9.1.6	IS 11041 IS 5718	R	One	Each Control Unit	-----
4.3	Long Run Test	9.2	IS 11041 IS 5718	R	One	Every 4 th Control Unit	-----
5	Constructional Requirements						
5.1	Feed Hopper	----	IS 11041	R	Adequate inspection to ensure that each cleaner conforms to the requirements of the specification, as applicable.		
5.2	Feed Regulating System	----	IS 11041	R			
5.3	Scalping System	----	IS 11041	R			
5.4	Primary Air Cleaning	----	IS 11041	R			
5.5	Transfer of Seed from Aspirating	----	IS 11041	R			

	Leg				
5.6, 5.6.1, 5.6.2	Shoe	---	IS 11041	R	
5.7	Grading Screens	----	IS 11041	R	
5.8	Secondary or Final Air Cleaning	----	IS 11041	R	
5.9	Tramp Discharge	----	IS 11041	R	
5.10	Main Aspirating Chamber	----	IS 11041	R	
5.11	Fan	----	IS 11041	R	
5.12	Shoe Shaking Device	----	IS 11041	R	
5.13	Bearing	----	IS 11041	R	
5.14	Lubrication	----	IS 11041	R	
5.15	Frame	----	IS 11041	R	
5.16, 5.16.1 to 5.16.4	Transmission Guards	----	IS 11041	R	
6, 6.1 to 6.5	Other Requirements	----	IS 11041 IS 5718 IS 8132	R	Adequate inspection to ensure that each cleaner conforms to the requirements of the specification, as applicable. Each cleaner shall be provided with the operators manual as per IS 8132. Manual shall also contain the information given in Annex A of IS 5718.
7	Workmanship and Finish	7.1, 7.2	IS 11041	R	Manufacturer shall exercise adequate in-process controls to ensure that each cleaner is free from

					harmful defects
8	Marking and Packing	8.1, 8.1.1., 8.2, 8.3	IS 11041	R	Each cleaner shall be marked and packed as per the provisions of cl.8.1, cl.8.2 and cl.8.3 respectively. A minimum cautionary note worded as per cl.8.1.1 shall be written in vernacular language legibly and prominently on the main body of each cleaner

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 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.