



उत्पाद मानुयल
सल्फर वेटेबल पाउडर्स
IS 3383:2023 के अनुसार

**PRODUCT MANUAL FOR
SULPHUR WETTABLE POWDERS
ACCORDING TO IS 3383:2023**

भारतीय मानक ब्यूरो)अनुरूपता मूल्यांकन (विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन में रीति और पारदर्शिता के सुसंगत 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 3383:2023
	शीर्षक Title	:	Sulphur Wettable Powders - Specification
	संशोधन संख्या No. of Amendments	:	Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific requirement
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	NA (No variety for the product mentioned in IS)
c)	नमूनेका परिमाण Sample Size	:	500 gm
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX –A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX –B (Both for Manufacturers and Repackers)

5.	एक दिन में संभावित परीक्षण Possible tests in a day:	
	i. Description ii. Sulphur content iii. Material passing through 45 micron IS sieve iv. Suspensibility v. Wettability vi. Arsenic	
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence:	
	Licence is granted to use Standard Mark as per IS 3383:2023 with the following scope (Manufacturers or Repackers as applicable): IS 3383:2023 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है।	
	उत्पाद का नाम Name of the product	Sulphur Wettable Powders (80%) / Repacked Sulphur Wettable Powders

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ANNEX – A
TO PRODUCT MANUAL FOR
SULPHUR WETTABLE POWDERS
ACCORDING TO IS 3383:2023

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	Sulphur content Cl 3.2.1 (Annex B of IS 3383)	Crystalline Sodium sulphite, Liquid Paraffin, Formaldehyde-40 % (v/v), Acetic Acid-20 % (v/v), Standard Iodine Solution- 0.1 N, Starch Indicator-0.5 %, Carbon Tetrachloride Weighing balance 0-200g, LC 0.01 mg, Erlenmeyer Flask, water Assembly attached with Condenser, Heating mantel /hot plate, Titration assembly.
2	Material passing through 45 micron IS sieve Cl 3.2, Table 1 (cl 11.1 of IS 6940)	Beaker of 6.0 to 6.5 cm and 250 ml capacity, Pressure assembly, Rubber hose, wide mouth bottle with cork or rubber stopper, 4 to 6 mm diameter glass rod, Gooch crucible, Beakers, weighing balance (0-200 gm, LC-0.01 mg), Oven, Brush, Weighing dish, 45 micron IS sieve.
3	Suspensibility Cl 3.2, Table 1 (cl 11.2 of IS 6940)	Beaker, Pressure assembly, Graduated cylinder of 250 ml capacity with a ground glass stopper, Glass tube about 40 cm long, standard hard water, glass rod (4-6 mm dia), weighing balance (0-200 gm, LC-0.01 mg), Temperature controlled Water bath, Vacuum pump, Thermometer, Conical flask
4	Wettability Cl 3.2, Table 1 (cl 11.4 of IS 6940)	Standard hard water, stop watch, Distilled Water, Volumetric flasks, Weighing Balance (0-200 gm, LC-0.01 mg), Beaker.
5	Arsenic Cl 3.2, Table 1 (Annex C of IS 3383)	Weighing balance (0-200gm, LC-0.01 mg), Kjeldahl flask-500 ml, Bromine, Carbon Tetrachloride, Conc. Nitric acid, Ice Bath/Cold water, Steam bath, Hot plate, Distilled Water Apparatus for test of Arsenic as per Fig 1 of IS 2088, Lead Acetate solution-10 % (m/v), Lead Acetate paper strips, Absorbent cotton wool impregnated with lead acetate, Mercuric bromide solution, Sensitized Mercuric Bromide paper strips, Dilute sulphuric acid-5 N, Conc. Hydrochloric acid, Potassium Iodide solution-15 % (m/v), Stannous chloride solution, Zinc -granules of size 0.05 to 1.0 mm, Standard arsenic stock solution, Silver Diethyl dithiocarbamate solution, Standard Glass ware.

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

ANNEX - B
PRODUCT MANUAL FOR
SULPHUR WETTABLE POWDERS
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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 and implement 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. PACKING AND MARKING – The Standard Mark as given in the schedule of the licence shall be printed on each container of Sulphur Wettable Powders or printed on the labels applied to it as the case may be, provided always that the material in each container to which this mark is thus applied conforms to every requirement of the specification.

3.1 Packing - The material shall be packed in accordance with the provisions of Clause 4.1 of IS 3383:2023, cross-referred to IS 8190(Part-1).

3.1.1 Repacking of material shall be as per the requirements given in IS 8190 (Part 1). The repacker shall maintain details of the repacked material, in format given in Table 2.

3.2 Marking - The containers shall bear legibly and indelibly the information as mentioned under clause 5.1 of IS 3383:2023. In addition, the following details shall also be marked legibly and indelibly:

- a) BIS Licence No. CM/L_____.
- b) BIS website details i.e – “For details of BIS certification please visit www.bis.gov.in”.
- c) In case of repackers, Name and BIS licence number of original manufacturers of Sulphur Wettable Powders shall also be mentioned.

4. CONTROL UNIT – For the purpose of this scheme, for manufacturers, the entire quantity of material blended and manufactured in a day shall constitute a Control Unit.

For repackers, the material repacked from a single control unit received with Standard Mark, for each consignment received, shall constitute one 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 Standards and covered by the licence should be marked with Standard Mark.

6. REJECTION – 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: Subcontracting permitted	LEVELS OF CONTROL		
CI	Requirement	Test Method Cl. Ref.	Test Method IS		No. of samples	Frequency	Remarks
3.1	Description	3.1	IS 3383	R	Firm to have adequate in-process controls to check compliance of this parameter as per the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
3.2.1	Sulphur content	Annex B	-do-	R	One	Each control unit	
3.2, Table 1	Material passing through 45 micron IS sieve	11.1	IS 6940	R	-do-	-do-	
-do-	Suspensibility	11.2	-do-	R	-do-	-do-	
-do-	Wettability	11.4	-do-	R	-do-	-do-	
-do-	Arsenic (as As)	Annex C	IS 3383	R	-do-	-do-	

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.

TABLE 2

**RECORD FOR REPACKED SULPHUR WETTABLE POWDERS
ACCORDING TO IS 3383: 2023**

Name of the manufacturer	Particulars of test reports received with C.U	Date of manufacture	Quantity received	Date of receipt	Date of repacking	Batch no.	Details of repacking		Total quantity	Details of dispatch
							Size	No.		
1	2	3	4	5	6	7	8	9	10	11