



**उत्पाद मानुयल
सल्फर डस्टिंग पाउडर - विशिष्टि
IS 6444:2023 के अनुसार**

**PRODUCT MANUAL FOR
SULPHUR DUSTING POWDERS – SPECIFICATION
ACCORDING TO IS 6444: 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 6444: 2023
	शीर्षक Title	:	Sulphur Dusting Powders - Specification
	संशोधन संख्या No. of Amendments	:	Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific requirements.
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	NA (No varieties for the product mentioned in IS)
c)	नमूनेका परिमाण Sample Size	:	500 g
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>

5.	एक दिन में संभावित परीक्षण / Possible tests in a day :		
	(i) Description (ii) Sulphur content (iii) Material passing through 75 micron (iv) Bulk Density		
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence :		
	IS 6444: 2023 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 6444: 2023 with the following scope.		
	उत्पाद का नाम Name of the product	Sulphur (85 %) Dusting Powder	

BUREAU OF INDIAN STANDARDS**Manak Bhawan,****9, Bahadur Shah Zafar Marg,****New Delhi – 110002**

ANNEX - A
TO PRODUCT MANUAL
FOR SULPHUR DUSTING POWDERS
ACCORDING TO IS 6444: 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 Clause 3.2 & Table-1 (Annex-B of IS 6444)	Sodium Sulphite-Crystals ($\text{Na}_2\text{SO}_3 \cdot 7\text{H}_2\text{O}$), Liquid paraffin, Dilute Formaldehyde – 40 % (v/v), Acetic Acid- 20 % aqueous solution, Standard Iodine solution- 0.1 N, Freshly Prepared Starch Indicator solution-0.5%, freshly prepared, Carbon Tetrachloride, Weighing Balance (0–200gm) LC- 0.001 gm Oven 0-400 °C LC- 1°C, Heating Metal with condenser, Glassware's - Beaker (250 ml, 100 ml), Glass rod, Conical Flask (500 ml), Narrow mouth cylinder (250 ml), Glass condenser, Spatula, Funnel, Butter Paper
3	Material Passing through 75 micron IS Sieve Clause 3.2 & Table-1 (IS 6940)	75 micron IS Test sieve, Weighing Balance (0-200 gm, LC- 0.1 mg), Ro- Tap machine or any other similar sieve shaker, two small square rubber cubes, weighing dish, brush.
4	Bulk Density after compacting Clause 3.2 & Table-1 (IS 6940)	Graduated cylinder-100 ml capacity with internal diameter of 27 to 29 mm, Funnel -wide and short-stemmed, felt pad, Analytical balance (0-200 gm, LC-0.1 mg), Plastic bag, Spatula.

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

ANNEX - B
TO PRODUCT MANUAL
FOR SULPHUR DUSTING POWDERS
ACCORDING TO IS 6444: 2023
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 stenciled/printed on each container of Sulphur Dusting Powder or printed on the label applied to it, as the case may be, provided always that the material in each container to which this mark is thus applied, conform to every requirement of the specification.

3.1 Packing - The material shall be packed in accordance with the provisions of Clause 4 of IS 6444:2023, giving cross-reference to IS 8190(Part-1).

3.2 Marking - The containers shall bear legibly and indelibly the information as mentioned under clause 5.1 of IS 6444:2023. In addition, the following details shall be mentioned on each container 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”.

3.2.1 When packed in bags the pictorial marking for ‘USE NO HOOKS. DO NOT PUNCTURE’, as specified in IS 1260 (Part 2) shall be stenciled on the bags, as per provisions of clause 5.1.1 of IS 6444:2023.

4. CONTROL UNIT – For the purpose of this scheme, the material blended in a mixer in one operation 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 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)		
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
3.1	Description	3.1	IS 6444	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 & Table 1	Sulphur content	Annex-B	IS 6444	R	One	Each control unit	
3.2& Table 1	Sieving Requirement	12.1	IS 6940	R	One	Each control unit	
3.2 & Table 1	Bulk Density after compacting	12.2	IS 6940	R	One	Each control unit	

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.