



**PRODUCT MANUAL
FOR SULPHUR DUSTING POWDER
ACCORDING TO IS 6444 : 1979**

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 6444 : 1979
	Title	:	Sulphur Dusting Powder
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	No specific requirements.
b)	Grouping guidelines	:	NA (No varieties for the product mentioned in IS)
c)	Sample Size	:	500 g
3.	List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	Possible tests in a day :		
	(i) Description (ii) Sulphur content (iii) Material passing through 75 micron (iv) Bulk Density		
6.	Scope of the Licence :		
	“Licence is granted to use standard Mark as per IS 6444:1979 with the following scope.		
	Name of the product	Sulphur (85 %) Dusting Powder	

ANNEX - A

TO PRODUCTMANUAL
FOR SULPHUR DUSTING POWDER ACCORDING TO IS 6444 : 1979

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 2.2 & Table-1 (Appendix A of IS 6444)	Sodium Sulphite-Crystals (Na ₂ SO ₃ .7H ₂ 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 road, Conical Flask (500 ml), Narrow mouth cylinder (250 ml), Glass condenser, Spatula, Funnel, Butter Paper
3	Material Passing through 75 micron IS Sieve Clause 2.2 & Table-1 (Clause 12.1 of 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 2.2 & Table-1 (Clause 12.2 of 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

SCHEME OF INSPECTION AND TESTING FOR SULPHUR DUSTING POWDER ACCORDING TO IS 6444 : 1979

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. 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 and marking shall be done as per the provision of the Indian Standard. 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”.

3.1.2 When packed in bags the pictorial marking for ‘USE NO HOOKS. DO NOT PUNCTURE’, as specified in IS 1260 (Part 2) shall be stencilled on the bags.

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.

5.2 On the basis of tests and analysis reports, the decision regarding conformity or otherwise of a control unit to a given requirement shall be made as follows:

5.2.1 A sample shall be drawn from each control unit and tested for all the requirements of the specification. If the sample fails in any of the requirement (s), the material may be suitably reprocessed, and the defect(s) rectified. Such reprocessed material, when tested again, shall satisfy all the requirements of the specification before it is considered fit for marking.

6. RAW MATERIAL – Each consignment of raw material received in the factory for the manufacture of Sulphur Dusting Powder shall be tested and appropriate records maintained.

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
2.1	Description	2.1	IS 6444	R	One	Each control unit	
2.2 & Table 1	Sulphur content	Appendix-A	IS 6444	R	-do-	-do-	
2.2 & Table 1	Sieving Requirement	12.1	IS 6940	R	-do-	-do-	
2.2 & Table 1	Bulk Density after compacting	12.2	IS 6940	R	One composite sample*	-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.

Note -3: *A composite sample shall be prepared by mixing together the samples drawn from the control unit.