



**PRODUCT MANUAL
FOR PESTICIDE-DODINE WP
ACCORDING TO IS 13785 : 1993**

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 13785 : 1993
	Title	:	Pesticide- Dodine WP
	No. of Amendments	:	01
2.	Sampling Guidelines:		
a)	Raw material	:	Dodine technical employed in the formulation of Dodine WP shall confirm to IS 13784.
b)	Grouping guidelines	:	NA (No varieties for the product mentioned in IS)
c)	Sample Size	:	500 gm
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. Dodine Content iii. Wettability iv. pH of 1 % solution v. Suspensibility vi. Sieving		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 13785 : 1993 with the following scope:		
	Name of the product	:	Dodine (65%) WP

ANNEX – A

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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.	Dodine Content Cl 3.4 & Table 1 (Annex A of IS 13785)	Heating Mantle (1000 ml), Titration Conical flask 250 ml, G4-Crucible, Vacuum Pump, Separating Funnel, Water Bath & Burette 50ml, Isopropanol, Acetic acid, Acetic Anhydride, Crystal violet Indicator, Perchloric acid, Erlenmeyer flask, Analytical balance (0-200 gm, LC-0.01 mg).
2.	Sieving Cl 3.3 & Table 1 (Cl 11.1 of IS 6940)	Beaker of 6.0 to 6.5 cm and 250 ml capacity, Pressure assembly, Rubber hose-of about 10 mm internal diameter, Wide mouth bottle with cork or rubber stopper, 4 to 6 mm diameter glass rod, Gooch crucible, Beakers, Camel hair brush or a feather, Weighing Dish, Analytical Weighing Balance (LC- 0.001g), Hot Air Oven capable of maintaining 54+1 °C, LC 1°C, tap water, Test sieve (75 micron IS sieve).
3.	Suspensibility Cl 3.3 & Table 1 (Cl 11.2 of IS 6940)	Beaker (6 to 6.5 cm and 250 ml capacity), Pressure assembly.(25 g/sq cm), Graduated cylinder capacity 250 ml with ground glass stopper, Glass tube , 40 cm long and with an internal diameter of 5 mm, Vacuum pump, Water Bath, Analytical Balance, Calcium Chloride Anhydrous, Magnesium Chloride Hexahydrate, Distilled Water.
4.	pH of 1 % solution Cl 3.3 & Table 1 (Annex B of IS 13785)	pH meter, Analytical balance, Glass rod, Arrangement for boiling water.
5.	Wettability Cl 3.3 & Table 1 (Cl 11.4 of IS 6940)	Analytical Balance, Stopwatch, Beaker - of 6.0 to 6.5 cm and 250 ml capacity, Standard hard water.

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

ANNEX - B

**SCHEME OF INSPECTION AND TESTING
FOR PESTICIDE-DODINE WP
ACCORDING TO IS 13785 : 1993**

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 Schedule of the licence shall be stenciled/printed on each container of Zineb Water Dispersible Powder or printed on the labels applied to the container, 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 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”.

4. CONTROL UNIT – For the purpose of this scheme, the entire quantity of material finally blended in a blender 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 test and analysis reports decision regarding conformity or otherwise of a control unit for a given requirement shall be made on the following basis:

5.2.1 A sample shall be drawn from the control unit and tested for all the requirements of the specification. If the sample fails in any of the requirement tested other than the Dodine content and suspensibility, the entire control unit represented by the sample shall be considered unfit for the purpose of marking.

5.2.2 In case the sample taken from the control unit fails in the requirement of Dodine content and/or suspensibility but passes in the other requirements, the entire quantity of the material in the control unit may be suitably reprocessed and the defects rectified. Such reprocessed material when tested again shall satisfy all the requirements of the specification before it is used for the marking.

6. RAW MATERIAL - Dodine technical employed in the formulation of Dodine WP shall conform to IS 13784. A test certificate to that effect shall be obtained from the supplier for each consignment of Dodine technical received. Alternatively, a sample from each consignment shall be tested for its conformity to the Indian Standard mentioned above and a record maintained. However, no testing or test certificate may be required if the material is ISI marked.

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
3.2	Description	3.2	IS 13785	R	One	Each Control unit	See clause 5 of SIT
3.3 & Table 1	Dodine Content	Annex A	IS 13785	R	Two	-do-	
-do-	Sieving	11.1	IS 6940	R	One	-do-	
-do-	Suspensibility	11.2	-do-	R	-do-	-do-	
-do-	pH of 1 % solution	Annex B	IS 13785	R	-do-	-do-	
-do-	Wettability	11.4	IS 6940	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 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 for approval by BO Head.