



**PRODUCT MANUAL  
FOR  
MONOCROTOPHOS, TECHNICAL  
ACCORDING TO IS 8025 : 1990**

*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.	<b>Product</b>	:	IS 8025 : 1990
	<b>Title</b>	:	Monocrotophos, Technical
	<b>No. of Amendments</b>	:	Nil
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	No specific requirement
b)	<b>Grouping guidelines</b>	:	NA (No varieties for the product mentioned in IS)
c)	<b>Sample Size</b>	:	200 g
3.	<b>List of Test Equipment</b>	:	Please refer ANNEX – <u>A</u>
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer ANNEX – <u>B</u>
5.	<b>Possible tests in a day :</b>		
	i. Description ii. Monocrotophos content iii. Free acetic acid mono-methlyamide iv. Acidity		
6.	<b>Scope of the Licence :</b>		
	“Licence is granted to use Standard Mark as per IS 8025 : 1990 with the following scope:		
	Name of the product	Monocrotophos, Technical	

**ANNEX - A  
TO PRODUCT MANUAL  
FOR MONOCHROTOPHOS, TECHNICAL  
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**LIST OF TEST EQUIPMENT**

*Major test equipment required to test as per the Indian Standard*

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment, Chemicals, Glassware.</b>
1	Monocrotophos content, Cl 3.2, Table 1, sr. no.(i)	Methanol, Standard sodium hydroxide solution (5 N), Nitric acid, 1 N, Glacial Acetic acid, methanol, Aceto-acetic acid, Ferric chloride solution, Phenolphthalein Indicator, Ethanol, Standard solution of MMA (monomethylamide), Sodium Hydroxide, Nitric acid, Ferric Chloride, Standard sodium nitrate solution(0.1 N), Weighing scale, Flask, Vacuum rotary pump, Potentiometric Titrator, Temperature bath, Benzene, Buchner funnel, Weighing Balance, Freezer, Volumetric flask, Water, Pipette, Spectrophotometer.
2	Free-acetic acid mono-methylamide (MMA), Cl 3.2, Table 1, sr. no.(ii)	Methanol, Standard sodium hydroxide solution, Nitric acid, Glacial acetic acid, Acetic acid in methanol solution (5%), MMA standard, Sodium Hydroxide, Nitric Acid, Ferric Chloride, Phenolphthalein indicator, Volumetric Flask, Comparison solution, Pipette, Heating chamber, Spectrophotometer, Timer.
3	Acidity (H <sub>2</sub> SO <sub>4</sub> ), Cl 3.2, Table 1, sr. no.(iii)	Acetic Acid, Methyl alcohol (distilled), Sodium Hydroxide, Hydrochloric acid, Acetone, pH meter, Weighing scale, Conical flask, Timer, Buchner funnel, Filter flask, Titration vessel.

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

**ANNEX – B**

**SCHEME OF INSPECTION AND TESTING  
FOR PRODUCT MANUAL  
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**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(s) as given in Schedule of the licence shall be stenciled/printed on each container of Monochrotophos, technical 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](http://www.bis.gov.in)”.

**4. CONTROL UNIT** – For the purpose of this scheme, the quantity of Monocrotophos Technical obtained from a single reaction and dried at a time 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. RAW MATERIAL** – The routine analysis of each consignment of raw materials received in the factory shall be carried out 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
3.1	Description	3.1	IS 8025	-	One sample	Each control unit	Visual
3.2, Table 1 (i)	Monocrotophos content	Annex B	-do-	R	-do-	-do-	-
3.2, Table 1 (ii)	Free acetic acid mono-methlyamide (MMA)	Annex C	-do-	R	-do-	-do-	-
3.2, Table 1 (iii)	Acidity (H2SO4)	Cl. 13.5.4	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 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.