



**PRODUCT MANUAL
FOR THIRAM DS
ACCORDING TO IS 4783:1982**

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 4783:1982
	Title	:	Thiram DS
	No. of Amendments	:	02
2.	Sampling Guidelines:		
a)	Raw material	:	Thiram, technical as per IS 4320:1982
b)	Grouping guidelines	:	NA (No varieties of the product mentioned in IS)
c)	Sample Size	:	500gms
3.	List of Test Equipment	:	Please refer ANNEX –A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX –B
5.	Possible tests in a day:		
	<ul style="list-style-type: none"> i. Description ii. Thiram content iii. Sieving Requirement 		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 4783:1982 with the following scope:		
	Name of the product	:	Thiram DS

ANNEX-A
TO PRODUCT MANUAL
FOR THIRAM DS ACCORDING TO IS 4783:1982

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	Sieving requirement, Clause 2.2.3 and Appendix A	<ol style="list-style-type: none"> 1. 150- IS Micron Sieve (also refer note under Cl 2.2.3) 2. Beakers 3. Weighing balance 4. Oven 5. Brush 6. Weighing Dish 7. Gallie-Porritt Grit Tester (Annex A)
2	Thiram content, Clause 2.3	<ol style="list-style-type: none"> I. Carbon disulphide evolution method: <ol style="list-style-type: none"> 1. Apparatus as per Figure 1 of Appendix A of IS 4320:1982 2. Water Bath 3. Burettes, Pipettes, etc 4. Weighing balance OR II. Amine method: <ol style="list-style-type: none"> 1. Apparatus as per Figure 1 and Figure 2 of Appendix A of IS 4320:1982 2. Water bath 3. Weighing balance 4. Volumetric flasks 5. Measuring cylinders 6. pH meter 7. Beakers

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

ANNEX B

**SCHEME OF INSPECTION AND TESTING
FOR THIRAM DS ACCORDING TO IS 4783:1982**

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. The manufacturer shall prepare a calibration plan for the test equipments.

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 Thiram DS 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”.

4. **CONTROL UNIT** – For the purpose of this scheme, the entire quantity of material manufactured in one mixing 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		
Clause No.	Requirement	Test Method Cl. Ref.	Test Method IS		No. of Samples	Frequency	Remarks
2.1	Constituents	2.1 & 2.1.1	IS 4783 & IS 4320	R	-	Each consignment	
2.2.1	Description	2.2.1	IS 4783	R	1	Each Control Unit	Continuous / Batch process
2.2.3	Sieving Requirement	Appendix A	IS 4783	R	1	Each Control Unit	Continuous / Batch process
2.3	Thiram content	Appendix A	IS 4320	R	1	Each Control Unit	Continuous / Batch process

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.