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Minutes of meeting of Technical Committee on Insecticide & Larvicide under the chairpersonship of Dr(Mrs.) Ira Ray, Additional DG, DGHS held on 23rd May, 2000

Meeting of Technical Committee under the chairpersonship of Dr.(Mrs.) Ira Ray, Additional DG(IR), was held on 23rd May 2000 to finalize the Technical Specifications of (i) Synthetic Pyrethroid liquid formulation for impregnation of bednets for use under National Anti Malaria Programme and Enhanced Malaria Control Project (EMCP) and (ii) Biolarvicides.

The following attended the meeting

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| 1. Dr.(Mrs.) Ira Ray, Addl. DG, DGHS | Chairperson |
| 2. Dr. Mrs. S. Kulshrestha, Jt. Director (M),
Dte. of Plant Protection & Quarantine
(CIL), Faridabad | Member |
| 3. Dr. T. Adak, Dy. Director, MRC, Delhi | Member |
| 4. Dr. K. S. Gill, Dy. Director, NICD, Delhi | Member |
| 5. Dr. Ashok Kumar, Director, NAMP | Member Secretary |
| 6. Sh. S. N. Srivastava, Dy. Director
represented the Director, Procurement, DGHS | |

The representatives from Bureau of Indian Standards and Ministry of Agriculture could not attend the meeting. Dr. S. M. Kaul, Jt. Director, Dr. Neeraj Dhingra, Dy. Director (M), Dr. V. K. Raina, Dy. Director (L&A), Dr. P. K. Srivastava (CCO) and Shri S. C. Gupta, Consultant (EMCP) from Dte. NAMP assisted the committee.

- I. This Committee deliberated on the Specifications of Synthetic Pyrethroid liquid formulation being used under National Anti malaria Programme. The committee noted that during earlier years, only one compound namely Deltamethrin flow registered with Registration Committee constituted under the insecticides Act, 1968 and for which BIS specifications are available has been used under the NAMP for impregnation of Bednets. However, now another compound namely Cyfluthrin 5% EW formulation has been registered for impregnation of Bednets by the Registration Committee of CIB, for which the technical specification are to be framed by this technical committee. The committee deliberated on this issue and the representative from Secretariate of Registration and CIB informed the committee that Cyfluthrin 5% EW has been registered by Registration Committee and its specifications have been forwarded to BIS for finalization and publication. The committee therefore decided that if Bureau of Indian Standards has not framed the specifications in respect of Cyfluthrin 5% EW, the approved CIB specifications be adopted by Directorate NAMP for use under the programme until the finalized specifications of this product are published by BIS. The committee also suggested that a copy of the approved specification of Cyfluthrin 5% EW be obtained from the Registration Committee of CIB and both the products i.e. Deltamethrin and Cyfluthrin be used in the programme. The committee further recommended that the quantity according to the recommended dose be estimated for procurement by NAMP.

Contd.

II. The committee was briefed that the biolarvicides are used for extended trial in the programme and there are two products namely Bacillus thuringiensis and Bacillus sphaericus with wettable powder and liquid formulations. The representative from CIB confirmed that though above mentioned formulations of biolarvicide(s) are registered with Registration Committee ~~of CIB~~ no BIS specifications of these biolarvicides are published. She further informed the committee that registration of these products is done after evaluating and assessing the efficacy and safety data. The specifications thus approved by Registration Committee ~~of CIB~~ can be used for procurement of these biolarvicides till the BIS specifications are published. This committee thus recommended that NAMP should obtain the copy of approved specifications by Registration Committee, Central Insecticide Board, Dir. of Plant Protection & Quarantine, Faridabad and use them till the time specifications are framed by Bureau of Indian Standard.

Journal

(Dr. Ashok Kumar)
Member Secretary

(Dr. T. Adak)
Member

(Dr. K. S. Gill)
Member

The above minutes may be seen by Dir. CIB
Countersigned

Sampriti Saini
28/06/2000

(Sh. Farukh Hamid)
Member represented
by Sh. S. N. Srivastava

S. N. Srivastava
(S. N. Srivastava)
Dir. CIB (Agr.)

S. Kulshrestha
(Dr. (Mrs.) S. Kulshrestha)
Member

(Dr. (Mrs.) Ira Ray)
Chairperson

Indian Standard

DELTAMETHRIN F — SPECIFICATION

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SCOPE

This standard prescribes the requirements and the methods of sampling and test for deltamethrin F.

2 REFERENCES

The following Indian Standards contain provisions which, through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of standards indicated below.

IS No.	Title
6940 : 1982	Methods of test for pesticides and their formulations (first revision)
8190 (Part 2) : 1988	Requirement for packing of pesticides: Part 2 Liquid pesticides (second revision)
10627 : 1983	Methods for sampling of pesticide formulations
12005 : 1987	Deltamethrin, technical

3 REQUIREMENTS

3.1 Constituents

The material shall consist of Deltamethrin technical conforming to IS 12005 : 1987 dissolved in suitable solvent(s), together with thickening, emulsifying, wetting and dispersing agents and with suitable stabilizers.

3.2 Description

The material shall be in the form of white to cream coloured liquid. On dilution with water, it shall be suitable for use as a spray.

3.3 Deltamethrin Content

The nominal deltamethrin content shall be declared [see 5.1 (f)], when tested by the method prescribed in Appendix A of IS 12005:1987, the observed deltamethrin content, percent by mass, (*m/m*), shall not differ from the declared nominal value by more than the tolerance limits given below (see also 6):

Nominal Value Percent	Tolerance Limit Percent
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Up to 9	+ 10 - 5
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Above 9 and below 30	+ 5 - 3
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30 and above	+ 5 - 3
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3.4 Dispersibility in Water

The material shall pass the test prescribed in 3.4.1.

3.4.1 Fill up a 100 ml measuring cylinder with 95 ml of distilled water and add 5 ml of the sample. Stopper the cylinder and shake thoroughly three times. Allow the cylinder to stand at 27°C for one hour.

The sample is considered to be passing the test if it remains dispersed in water and any separation at the top or sedimentation at the bottom is not more than 2 ml.

3.5 Acidity

When tested by the method prescribed in 13.5 of IS 6940 : 1982, acidity (as H₂SO₄) shall not be more than 0.5 percent by mass (*m/m*).

4 PACKING

The material shall be packed in 100 ml, 250 ml, 500 ml and one litre HDPE containers which shall be encased in fibre board boxes or wooden boxes. For bulk packing HDPE drums shall be used. It shall also conform to the general requirements given in IS 8190 (Part 2) : 1988.

5 MARKING

5.1 The containers shall bear legibly and indelibly the following information:

- Name of the material;
- Name of the manufacturer;
- Batch number;
- Date of manufacture;
- Date of expiry;
- Nominal deltamethrin content (*m/m*) as

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registered under the Provisions of *Insecticides Act, 1968* and the Rules framed thereunder;

- g) Volume in ml or l; and
- h) Any other Information required under the *Insecticides Act, 1968* and the Rules framed thereunder and *Standards of Weights and Measures (Packaged Commodities) Rules, 1977*.

5.2 BIS Certification Marking

The product may also be marked with the Standard Mark.

5.2.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards*

Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

6 SAMPLING

When bulk manufactured material is offered for inspection, representative samples of the material shall be drawn as prescribed in IS 10627:1983 and tested within 90 days of its manufacture. The criteria of conformity shall be as given in IS 10627:1983. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627:1983, however, the criteria for conformity of the material shall be the limits of tolerances given under 3.3 of this standard.