

**DTE. NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME**

**TECHNICAL SPECIFICATION OF CYPHENOTHRIN 5% EC AS INSECTICIDE/ADULTICIDE FOR FOGGING**

The insecticide shall conform to the specification as per registration committee of Central Insecticide Board and for standards to be published by the Bureau of Indian Standards. Cyphenothrin 5% EC should conform to the standard specified by IS vide No.15979:2012 and amended thereof.

**Registration-** The product and the firm shall have to be registered by the Registration Committee, Central Insecticide Board, Directorate of Plant Protection & Quarantine, Department of Agriculture, Ministry of Agriculture for Public Health use for adult mosquito control of disease vectors.

**Shelf Life / Efficacy-** The expiry date i.e. the date up to which the insecticide shall retain its efficacy & toxicity shall be for a period of two years from the date of its manufacture that means the material shall meet with the requirements given in the specification above for a period of two years. This shall be guaranteed by the firm with a certificate in this regard shall have to be furnished along with the documents. At the time when the stores are offered for inspection, the life of insecticides should not have passed more than 1/6<sup>th</sup> of the effective life of the same counted from the date of manufacture.

**Packaging-** The stores shall have to be packed as per Registration Certificate (in 100 ml, 250 ml, 500ml, 1 lt. & 5 lt.) in tin container suitable lacquered from inside with leak proof and pilfer proof closure system confirming to IS: 9992-1991 and its subsequent amendment thereof, if any.

A leaflet as approved by the Registration Committee should be affixed to the packaging containing insecticide/adulticide and shall be printed in English, Hindi & in regional languages indicating product detail, direction for use, precautions, symptoms of poisoning and first aid with antidote, disposal of used containers, storage conditions and manufacturer's name etc.

**Marking-** The following information shall be marked legibly and indelibly on each container in addition to the information required under the Insecticide Act 1968 and rules framed there under:

- a) Name of the Material;
- b) Name of the manufacturer;
- c) Date of manufacture;
- d) Date of expiry;
- e) Batch number;
- f) Net quantity;
- g) Nominal Cyphenothrin contents, percent(m/m);
- h) Minimum cautionary notice as worded in the Insecticide Act, 1968 and rules framed thereunder;
- i) Any other information required under the Standards of Weights and Measures (Packaged Commodities) Rules, 1977.

In addition, the container shall be marked.

**GOVERNMENT OF (Name of the State) SUPPLY  
NVBDCP  
NOT FOR SALE**

**Dose:** The recommended dose for thermal fogging is 0.5 mg a.i./m<sup>2</sup> in Indoor conditions and 3.5 g a.i./ha in outdoor conditions.

The State Programme officers have the right to carry out chemical analysis of insecticide from field samples during implementation under the programme at any stage during shelf life of the product.

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**MALATHION TECHNICAL HAVING NO FOUL OR DISAGREEABLE ODOR**

1 **Specification:** -

Malathion Technical (S-, 2-di (Ortho-oxycarbonyl) ethyl O, O-dimethyl phosphorodithioate) shall conform to IS: 1832-1978 specifications with upto date amendments with minimum 95% Malathion content % by mass and shall have no foul or disagreeable odour.

2 **Additional/Requirements:** -

2.1 **Insecticides Act:**

In addition, the terms and conditions in the Rules framed in 1971 under the Insecticide Act of 1968 (46 or 1968) Govt. of India, with up to date amendments at the time of finalisation of the contract will also be applicable.

2.2 **Expiry Date:**

An expiry period of one year is required to be furnished for the material from the date of inspection. The material shall continue to meet all the requirements of the above specifications for a period of two years from the date of inspection.

2.3 **Packing and Marking on the packages:** -

**Packing:** -

The material shall be packed according to IS:1890 (Pt.II) 1980 specifications (Packing for liquid pesticides as per specifications No.IS:2552-1970 with upto date amendments for mild steel drums Grade B.I). The drums should be suitable lacquered to avoid decomposition of Malathion during storage. Net weight of the packed material is to be 250 kg.

**Marking on the drums:** -

The drums should be marked legibly and indelibly with print/stenciling with all the requirements given under clause 3.2 of IS:1832/1978 in addition to the provisions under the Insecticides Act such as date of manufacture, date of inspection, expiry date etc. The expiry date shall be prominently and clearly stenciled/printed.