

NATIONAL CENTER FOR VECTOR BORNE DISEASES CONTROL

**Technical Specifications of Bacillus thuringiensis var israelensis 5% AS
(Strain ABIL-96) as a Bio-larvicide**

The biolarvicide shall conform to the specification as per Certificate of Registration issued and amended if any by Secretary of Central Insecticide Board & Registration Committee (CIB&RC) and for standards to be published (if any) by the Bureau of Indian Standards.

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 the control of larvae of *Anopheles*, *Aedes* and *Culex* species of mosquitoes under public health programme of Ministry of Health and Family Welfare.

Shelf Life / Efficacy- The shelf life of the product shall be two years from the date of manufacture. This shall be guaranteed by the firm with a certificate in this regard which 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 1/6th 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 HDPE containers of capacity 100ml, 250ml, 500ml and 1 liter as per IS 9754-1981 as primary packing and the primary packaging should be inserted in polythene bag of thickness not less than 0.062mm as a secondary packing. No other packaging shall be used without approval of Central Insecticide Board & Registration Committee.

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 amendments thereof if any 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. Toxicity label:
- g. Net quantity:
- h. Nominal *Bacillus thuringiensis var. israelensis* content:
- i. Minimum cautionary notice as worded in the Insecticide Act, 1968 and rules framed thereunder;

The bottom of the page features several handwritten signatures and initials in blue ink. From left to right, there is a signature that appears to be 'S. K. ...', followed by initials 'J. G. ...', a signature 'S. ...', a large signature 'S. ...', and finally the initials 'P. ...'.

- j. Any other information required under the Standards of Weights and Measures (Packaged Commodities) Rules, 1977 and amendments thereof if any,
k. Storage Condition:

In addition, the container shall be marked

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

Dose and frequency- The recommended dose as per Certificate of Registration issued by CIB&RC is once a fortnightly at dose of 0.5 ml/m² (5 Litre/Ha) to control *Anopheles* species and *Aedes* species in clean water habitat. In polluted water against *Culex* species once a fortnightly at dose of 0.75 ml/m² (7.5 Litre/Ha).

The Programme officers have the right to carry out testing for the potency of the bio-larvicide from field samples during implementation under the programme at any stage during shelf life of the product.



(Dr. T. Sonai Rajan)
Asst. Director(E),
CIB&RC, Faridabad



(Dr. Prashant Mallick)
Scientist-D,
NIMR, New Delhi



(Sh. D.K Singh)
DDG (Procurement)
Dte. GHS, Nirman Bhawan



(Dr.S.N.Sharma)
Consultant,
NCDC, Delhi



(Dr. Rupak Chatterjee)
DDG (Store),
MSO, R.K.Puram



(Dr. Tanu Jain)
Director
NCVBDC (NVBDCP)



(Prof.(Dr). Atul Goel)
Chairperson & DGHS, Gol
Nirman Bhawan, New Delhi