List of item for Tender

s. no.	Item code	Item name	SKU	Aprox quantity in Litre
1.	Isct002	BTI Larvicide 5% AS	10 Litre	1800 litre
2.	Isct003	Temephose EC 50%	5 Litre	4500 litre
3.	Isct004	Cyphenothrin 5% EC	1 Litre	1000 Litre
4.	Isct005	Diflubenzuron 25% wp	1 Kg	500 Kg
5.	Isct006	Alphacypermethrin 5% (SP 5%)	1MT	10MT

Technical Specifications of Insecticide (As per NVBDCP GoI)

- **Item Code:- Isct002*, BTI Larvicide 5% AS***

Bacillus thuringiensis var israelensis (Bti), AS):-

Description of store: Bacillus thuringiensis var israelensis (Bti), AS. As per specifications given in CIB registration certificate.

- For use in NVBDCP the product should be registered with central insecticide board.
- The packaging of the product should conform to the specifications of CIB.
- The product should have cleared the long term trials by/under the supervision of ICMR institute, NICD for 1 year/following common protocols published by MRCVCRC.
- The product should be stable when stored at ambient temperature (not exceeding 42.5 ^{0}C)

Marking: the container shall be marked as follows:

GOVERNMENT OF MP SUPPLY
NVBDCP
NOT FOR SALE

In addition to the above the container shall bear legibly and indelibly the following information and any other information as necessary under the insecticide act and rules:-

a) Name of material
b) Name of the manufacturer
c) Batch no.
d) Date of manufacture
e) Net volume of contents
f) Nominal larvicide content percent (m/n), and
g) The minimum cautionary notice worded as in the insecticide act and rules

❖ **Item Code:- Isct003*, Temephose EC 50%***

- **Description of store:-** Temephos Emulsifiable concentrate (EC) 50% confirming to ISI specification no. IS : 8498-1977 with amendment no. 1& 2 bearing ISI certification mark.
- **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 as spray for control of mosquito vectors.
- **SHELF LIFE EFFICACY:-** The expiry date i.e. the date up to which the insecticide shall retain its efficacy and toxicity shall be for a period of two years from the date of its manufacturing ,that means the material shall meet with the requirement given in a specification above for a period of two year. This shall guaranteed by the firm that certificate in this regard shall have to be furnished along with the bid document. At the time when the stores are offered for insecticide ,the life of larvicide /insecticide should not have passed more than 1/6th of the effective life of the same counted from the date of manufacture.
- **PACKING:-** THE STORE SHALL HAVE TO BE packed in 5 ltr. clean , new dry leak proof, sound, non returnable mild steel drums coated inside with suitable material resistant to the content inside. The container shall comply with general requirements stipulated in clause 2 of IS 8498 (part-2)-1976 &1988 (second revision). The packing shall also confirm to the tariff rules in force from time to time for goods failing in the category of material of high flash point. The contractor shall provide certificate from the fabricators of drums to the inspecting authority performing that the drums confirm to the above IS specification and the inspecting authority need not test drums before filling so as to minimize delay in inspection procedure.
- **MARKING:-**the container shall bear legibly and indelibly the information as per clause 3.2 of IS 8198 -1977 and information's as per the insecticide Act, 1968 and rules made there under. Each container shall be marked with the ISI specification mark as mentioned in clause 3.2.1of IS: 8498-1977. In addition, the containers shall be marked.

❖ **Item Code:- Isct004*, Cyphenothrin 5% EC***

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 requirement given in the specification above for a period two years. This shall be guaranteed by the firm with a certificate in this regard shall have to be furnished along with 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 100 ml, 250 ml, 500 ml, 1 lt & 5 lt) in tin container suitable lacquered form 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 language indicating product details, direction for use, precautions, symptoms of poisoning and first aid with antidote, disposal of used containers, storage conditions and manufactures 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 content, percent (m/m);
h) Minimum cautionary notice as worded in the insecticide Act 1968 and rules farmed thereunder;
i) Any other information required under the standards of weights and measures (packaged commodities) Rules 1977.
j) In additional, the container shall be marked

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Dose: The recommended dose for thermal fogging is 0.5 mg a.i/m2 in indoor conditions and 3.5g 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

- **Item Code:- Isct005*, Diflubenzuron 25% wp***

DTE. NATIONAL VECTOR BORNE DISEASE CONTROL PROGRAMME

TECHNICAL SPECIFICATION OF DIFLUBENZURON 25% WP (INSECT GROWTH REGULATION) AS LARVICIDE

The larvicide shall conform to the specification as per registration committee and for standard to be published by the bureau of Indian standards. Diflubenzuron 25% WP (IGR) should conform to the standard by IS vide no 14186-1994 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 mosquito larvae control of disease vectors.

Shelf life/efficacy- The expiry date i.e. the date up to which the larvicide 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 requirement given in the specification above for a period two years. This shall be guaranteed by the firm with a certificate in this regard which shall have to be furnished along with documents. At the time when the stores are offered for inspection, the life of larvicides should not have passed more than 1/6th of the effective life of the same counted from the date of manufacture.

Packaging- The material shall be packed in 500gms in LDPE bags as approved by registration certificate and IS specification of Diflubenzuron WP under heading packaging. The container of packaging shall also comply with the general requirements as specified in 2 of IS: 8190 (part I): 1980, 1988 & amendment thereof, if any.

A leaflet as approved by the registration committee should be affixed to the packaging containing larvicide and shall be printed in English, Hindi & in regional language indicating product details, direction for use, precautions, symptoms of poisoning and first aid with antidote if any, disposal of used containers, storage conditions and manufactures name etc.

Marking-The following information shall be marked legibly and indelibly on each container as per IS specification IS 14186:1994, 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 mass of contents;
g) Nominal Diflubenzuron content (m/m)
h) Minimum cautionary notice as worded in the insecticide Act 1968 and rules farmed thereunder; and
i) Any other information required under the standards of weights and measures (package commodities) Rules 1977.

In additional, the container shall be marked.

GOVERNMENT OF (NAME OF THE STATE) SUPPLY
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Dose and frequency: The recommended dose by NVBDCP expert group is 25 gm a.i/Ha for clean water and 50 gm a.i/Ha for polluted water at weekly intervals.

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

❖ **Item Code:- Isct006*, Alphacypermethrin 5% (SP 5%)***

ALPHA - CYPERMETHRIN WETTABLE POWDER

WHO specification 454/WP (April 2006)

This specification, which is PART ONE of this publication, is based on evaluations of data submitted by the manufacturers whose names are listed in the evaluation reports (454/2005, 454/2007). It should be applicable to relevant products of these manufacturers, and those of any other formulators who use only TC from the evaluated sources. The specification is not an endorsement of those products, nor a guarantee that they comply with the specification. The specification may not be appropriate for the products of other manufacturers who use TC from other sources. The evaluation reports (454/2005, 454/2007), as PART TWO, form an integral part of this publication.

1. Description

The material shall consist of a homogeneous mixture of technical alphacypermethrin, complying with the requirements of WHO specification 454/TC (April 2006), together with filler(s) and any other necessary formulants. It shall be in the form of a freely flowing fine powder, free from visible extraneous matter and hard lumps.

2. Active ingredients

2.1 **Identity tests** (454/WP/M/2, CIPAC Handbook H, p.18, 1998)

The active ingredient shall comply with an identity test and, where the identity remains

in doubt, shall comply with at least one additional test.

2.2 **Alpha-cypermethrin content** (454/WP/M/3, CIPAC Handbook H, p.18, 1998)

The alpha-cypermethrin content shall be declared (100 g/kg) and, when determined, the average measured content shall not differ from that declared by more than

3. Physical properties

3.1 **pH range** (MT 75.3, CIPAC Handbook J, p.131, 2000)
pH range: 4 to 8.

3.2 **Wet sieve test** (MT 185, CIPAC Handbook K, p.149, 2003)
Maximum: 2% of the formulation shall be retained on a 75 µm test sieve.

3.3 **Suspensibility** (MT 184 CIPAC Handbook K, p. 142,2003) (Nstes 1& 2)

Specifications may be revised and/or additional evaluations may be undertaken. Ensure the use of Current versions by checking at:
http://www.who.int/who.int/whopes/quantity/en/

A minimum of 70% of the Alpha cypermethrin content found under 2.2 shall be in the suspension after 30 min in CIPAC Standard Water D at 30 ± 2°C.

3.4 **wettability** (MT 53.3.2, CIPAC Handbook F, p.164, 1995) the formulation shall be completely wetted in 1 min with swirling.

3.5 **Persistent foam** (MT 47.2, CIPAC Handbook F, p.152, 1995) (Note 3) Maximum: 60ml after 1min.

4. Storage stability

4.1 **Stability at elevated temperature** (MT 46.3 CIPAC handbook J.P.128, 2000)

After storage at 54 ± 2°C for 14 days, the determined average active ingredient content must not be lower than 95% relative to the determined average content found before storage (Note 3) and the formulation shall continue to comply with the clauses for: –

- pH range (3.1)
- Wet sieve test (3.5)
- suspensibility (3.3)
- Wettability (3.4)

Note 1 the formulation should be tested at the highest and lowest rates of use recommended by the supplier provided it does not exceed the conditions given in method MT 184.

NOTE 2 Chemical assay is the only fully reliable method to measure the mass of active ingredient still in suspension. However, simpler gravimetric methods may be used on a routine basis provided that these methods have been shown to give equal results to those of the chemical assay. In case of dispute, the chemical method shall be the "referee method".

NOTE 3 The mass of sample to be used in the test should be specified at the highest rate recommended by the supplier.

NOTE 4 Analysis of the formulation before and after the storage stability test should be carried out concurrently (i.e. after storage), to minimize the analytical error.

DELIVERY PERIOD: - COMPLETION WITHIN AS PER TOR FROM THE DATE OF PLACEMENT OF ORDER