

Permitted in India by Central Insecticides Board

BIO-INSECTICIDES	
Sr No.	Formulation registered
1.	Azadirachtin 0.15% EC w/w Min. Neem Seed Kernel Based
2.	Azadirachtin 0.15% EC
3.	Azadirachtin 00.30% EC (3000 PPM) Min. Neem Seed Kernel Based
4.	Azadirachtin 01.00% EC Min. Neem Based
5.	Azadirachtin 01.00% EC (10000 PPM) Min. Neem Based
6.	Azadirachtin 00.03% EC Min. Neem Oil Based
7.	Azadirachtin 00.03% WSP (300 PPM) Neem Oil Based
8.	Azadirachtin 05.00% w/w Min. Neem Extract Concentrates
9.	Bacillus thuringiensis var. galleriae 1593 M sero type H 59 5b, 1.3%
10.	Bacillus thuringiensis var. 4rustaki
11.	Bacillus thuringiensis var. 4rustaki, serotype H-39, 3B, Strain Z-52
12.	Bacillus thuringiensis serovar 4rustaki (3a, 3b, 3c) 5.0% WP Potency 55000 SU
13.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)
14.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1 NAIMCC-B-01118, Potency 13329 IU/mg min. U/s 9(3b)
15.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1,
16.	Azadirachtin 0.15% EC w/w Min. Neem Seed Kernel Based
17.	Azadirachtin 0.15% EC
18.	Azadirachtin 00.30% EC (3000 PPM) Min. Neem Seed Kernel Based
19.	Azadirachtin 01.00% EC Min. Neem Based
20.	Azadirachtin 01.00% EC (10000 PPM) Min. Neem Based
21.	Azadirachtin 00.03% EC Min. Neem Oil Based
22.	Azadirachtin 00.03% WSP (300 PPM) Neem Oil Based
23.	Azadirachtin 05.00% w/w Min. Neem Extract Concentrates
24.	Bacillus thuringiensis var. galleriae 1593 M sero type H 59 5b, 1.3%
25.	Bacillus thuringiensis var. 4rustaki
26.	Bacillus thuringiensis var. 4rustaki, serotype H-39, 3B, Strain Z-52
27.	Bacillus thuringiensis serovar 4rustaki (3a, 3b, 3c) 5.0% WP Potency 55000 SU
28.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)
29.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1 NAIMCC-B-01118, Potency 13329 IU/mg min. U/s 9(3b)
30.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 16000 IU/mg min.
31.	Bacillus thuringiensis var. 5rustaki 2.5% AS
32.	Bacillus thuringiensis var. 6rustaki Strain HD-1, serotype 3a, 3b, 3.5% ES for Import & repack. Potency 17600 IU/mg
33.	Bacillus thuringiensis var. 6rustaki Serotype 3a, 3b, SA II WG Potency:- 53000 SU/mg,

	32000 IU/mg
34.	Bacillus thuringiensis var. israelensis WP
35.	Bacillus thuringiensis var. israelensis , Serotype H-14 (VECTOBAC 12 AS) Potency 1200 ITU / MG
36.	Bacillus thuringiensis var. galleriae 1593 M sero type H 59 5b, 1.3%
37.	Bacillus thuringiensis var. 4rustaki
38.	Bacillus thuringiensis var. 4rustaki, serotype H-39, 3B, Strain Z-52
39.	Bacillus thuringiensis serovar 4rustaki (3a, 3b, 3c) 5.0% WP Potency 55000 SU
40.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)
41.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1 NAIMCC-B-01118, Potency 13329 IU/mg min. U/s 9(3b)
42.	Bacillus thuringiensis var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 16000 IU/mg min.
43.	Bacillus thuringiensis var. 5rustaki 2.5% AS
44.	Bacillus thuringiensis var. 6rustaki Strain HD-1, serotype 3a, 3b, 3.5% ES for Import & repack. Potency 17600 IU/mg
45.	Bacillus thuringiensis var. 6rustaki Serotype 3a, 3b, SA II WG Potency:- 53000 SU/mg, 32000 IU/mg
46.	Bacillus thuringiensis var. israelensis WP
47.	Bacillus thuringiensis var. israelensis , Serotype H-14 (VECTOBAC 12 AS) Potency 1200 ITU / MG
48.	Bacillus thuringiensis var. israelensis, Serotyp H-14 (Vectobac 12 AS) potency 1200 ITU/mg
49.	Bacillus thuringiensis var. israelensis 5.0% AS (Strain VCRC-B-17, Serotype H-14, Accession No.- MTCC 5596
50.	Bacillus thuringiensis var. israelensis (H-14) 5.0% AS
51.	Bacillus thuringiensis var. israelensis, Serotyp H-14, 5% WP Potency 2000 ITU/mg
52.	Bacillus thuringiensis var. israelensis, Strain Designation- ABIL, Accession No.
53.	Bacillus thuringiensis var. israelensis, Serotyp H-14 (Vectobac 12 AS) potency 1200 ITU/mg
54.	Bacillus thuringiensis var. israelensis 5.0% AS (Strain VCRC-B-17, Serotype H-14, Accession No.- MTCC 5596
55.	Bacillus thuringiensis var. israelensis (H-14) 5.0% AS
56.	Bacillus thuringiensis var. israelensis, Serotyp H-14, 5% WP Potency 2000 ITU/mg
57.	Bacillus thuringiensis var. israelensis, Strain Designation- ABIL, Accession No . NAMICC-B01318 (CFU Count- 4.8 x 10 ⁸) Serotyp H-14, 5% WP Potency 7000 ITU/mg
58.	Bacillus thuringiensis var. sphaericus1593 M sero type H 59 5b
59.	Bacillus thuringiensis var. israelensis 12% AS (Vectobac)
60.	Bacillus thuringiensis var. israelensis 00.50%WP
61.	Bacillus thuringiensis var. israelensis 05.00%WP
62.	Bacillus sphaericus 1593 M sero type H 59 5b, 1.3% flowable concentrate Potency 13000 IU/mg
63.	Beauveria bassiana 1.15% WP
64.	Beauveria bassiana 1.15% WP. (1x10 ⁸ /gm min) Strain BB-ICAR-RJP, Accession No – MCC 1022

65.	<i>Beauveria bassiana</i> 1.15% WP (Strain : BB – 5372, own R & D Isolate)
66.	<i>Beauveria bassiana</i> 1.15% WP (1x10 ⁸ /gm min) Strain ICAR, Research Complex, Umiam, Meghalaya, Accession No – NAIMCC-F-03045
67.	<i>Beauveria bassiana</i> 1.15% WP (1x10 ⁸ /gm min) Accession No – NAIMCC-F-03045, Strain No. NBAIM, MAU.
68.	<i>Beauveria bassiana</i> 1.15% WP (1x10 ⁸ /spores/ml) Strain BCRL, Accession No – BCRL Bbpx-6892
69.	<i>Beauveria bassiana</i> 1.0% WP, Strain No: NBRI – 9947 (1x10 ⁸ CFU/gm Min.)
70.	<i>Beauveria bassiana</i> 1.0% WP (1x10 ⁹ CFU/gm min), Strain No. IPL/BB/MI/01
71.	<i>Beauveria bassiana</i> 1.0% WP (1x10 ⁸ CFU/gm min), Strain No. SVBPU/CSP/Bb-10, Accession No. ITCC-7520
72.	<i>Beauveria bassiana</i> 5.0% WP, (1x10 ⁸ CFU/gm min) Strain IARI, Accession No. ITCC-7353
73.	<i>Beauveria bassiana</i> 5.0% SC, Strain: NBAIL , Bangalore , Accession No. ITCC-7102
74.	<i>Beauveria bassiana</i> 5.0% AS Strain : BB-AAU-RJP Accession No. MCC – 1024
75.	<i>Beauveria bassiana</i> 1.0% WP, Strain No: NBRI – 9947 (1x10 ⁸ CFU/gm Min.)
76.	<i>Beauveria bassiana</i> 1.0% WP (1x10 ⁹ CFU/gm min), Strain No. IPL/BB/MI/01
77.	<i>Beauveria bassiana</i> 1.0% WP (1x10 ⁸ CFU/gm min), Strain No. SVBPU/CSP/Bb-10, Accession No. ITCC-7520
78.	<i>Beauveria bassiana</i> 5.0% WP, (1x10 ⁸ CFU/gm min) Strain IARI, Accession No. ITCC-7353
79.	<i>Beauveria bassiana</i> 5.0% SC, Strain: NBAIL , Bangalore , Accession No. ITCC-7102
80.	<i>Beauveria bassiana</i> 5.0% AS Strain : BB-AAU-RJP Accession No. MCC – 1024
81.	<i>Beauveria bassiana</i> 1.15% WP (1x10 ⁸ /gm min) Accession No – NAIMCC-F-03048
82.	<i>Beauveria bassiana</i> 10.00% SC
83.	<i>Beauveria bassiana</i> 1.5% Liquid Formulation (CFU count 10X10 ⁸) Accession No.MTCC-5171
84.	<i>Beauveria bassiana</i> 1.15% WP (1X10 ⁶ CFU /gm min)
85.	<i>Beauveria bassiana</i> 5.0% WP, (1x10 ⁸ CFU/gm min) Strain IARI, Accession No. ITCC-7353
86.	<i>Beauveria bassiana</i> 5.0% SC, Strain: NBAIL , Bangalore , Accession No. ITCC-7102
87.	<i>Beauveria bassiana</i> 5.0% AS Strain : BB-AAU-RJP Accession No. MCC – 1024
88.	<i>Beauveria bassiana</i> 1.15% WP (1x10 ⁸ /gm min) Accession No – NAIMCC-F-03048
89.	<i>Beauveria bassiana</i> 10.00% SC
90.	<i>Beauveria bassiana</i> 1.5% Liquid Formulation (CFU count 10X10 ⁸) Accession No.MTCC-5171
91.	<i>Beauveria bassiana</i> 1.15% WP (1X10 ⁶ CFU /gm min)
92.	<i>Metarhizium anisopliae</i> 1.15% WP (1x10 ⁸ CFU/gm min) Accession No. MTCC – 5173
93.	<i>Metarhizium anisopliae</i> 1.0% WP (1x10 ⁸ CFU/gm min) Strain No. IPL/KC/44 (Own R & D Isolate), Accession No. 6895
94.	<i>Metarhizium anisopliae</i> 1.15% WP (1x10 ⁸ CFU/gm min) Strain No. AAI, Allahabad, Accession No. NAIMCC-F-03037.
95.	<i>Metarhizium anisopliae</i> 10% GR (CFU count 1 X 10 ⁸ /gm. min.) Strain BCRL– Me, Accession No. ITCC 6911
96.	<i>Pseudomonas fluorescens</i> 1.0% WP (Strain No. IIHR-PF-2, Accession No. ITCC- B0034)
97.	<i>Trichoderma harzianum</i> 1.0% WP (Strain No. IIHR-TH-2 Accessions No. ITCC 6888)
98.	PB Rope L

99.	<i>Trichoderma harzianum</i> 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)
100.	<i>Trichoderma viride</i> 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)
101.	<i>Verticillium chlamydosporium</i> 1.0% WP, (2x10 ⁶ CFU/gm min) Strain – IIHR-VC-3 Accession No – ITCC-6898
102.	<i>Verticillium lecanii</i> 1.15%WP, (1x10 ⁸ CFU/gm min) Strain – AS MEGH-VL Accession No – MCC-1028
103.	<i>Verticillium Lecanii</i> 1.50% Liquid Formulation, (1x10 ⁸ CFU/ml. min.) Strain – T Stanes VI-1, Accession No – MTCC-5172
104.	<i>Verticillium lecanii</i> 3.0% AS, (strain: Accession No. MCC-1127, Strain No. MPKV / Biocontrol/ RVN/ VL-01
105.	<i>Verticillium chlamydosporium</i> 1.0% WP, (2x10 ⁶ CFU/gm min) Strain – IIHR-VC-3 Accession No – ITCC-6898
106.	<i>Verticillium lecanii</i> 1.15%WP, (1x10 ⁸ CFU/gm min) Strain – AS MEGH-VL Accession No – MCC-1028
107.	<i>Verticillium Lecanii</i> 1.50% Liquid Formulation, (1x10 ⁸ CFU/ml. min.) Strain – T Stanes VI-1, Accession No – MTCC-5172
108.	<i>Verticillium lecanii</i> 3.0% AS, (strain: Accession No. MCC-1127, Strain No. MPKV / Biocontrol/ RVN/ VL-01
109.	<i>Verticillium lecanii</i> 5.0% SC, (Strain: Accession No. NFCCI - 2638
110.	<i>Verticillium lecanii</i> 5.0% SC, (1x10 ⁸ CFU/gm Min.) Strain – Own Red Isolate, Strain No. VI-17874, MTCC No.5716
111.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 0.43% AS (1x10 ⁹ POB/ml)
112.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. GBS/HNPV -01 (1x10 ⁹ POB/ml Min.)
113.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. NBRI-8821 (1x10 ⁹ POB/ml Min.)
114.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. IBH-17268 (1x10 ⁹ POB/ml Min.)
115.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 0.43% AS (1x10 ⁹ POB/ml)
116.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. GBS/HNPV -01 (1x10 ⁹ POB/ml Min.)
117.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. NBRI-8821 (1x10 ⁹ POB/ml Min.)
118.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. IBH-17268 (1x10 ⁹ POB/ml Min.)
119.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. BIL/HV-9 POB(1x10 ⁹ POB/ml Min.)
120.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. IBL-17268
121.	Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 0.43% AS, Strain No. BIL/HV-9 (1x10 ⁹ POB/ml Min.)
122.	Nuclear Polyhedrosis Virus of <i>Spodoptera litura</i> 0.5% AS, (1x10 ⁹ POB/ml Min.)

123.	NPV of <i>Helicoverpa armigera</i> 0.5%AS, (1x10 ⁹ POB/ml Min.)
124.	NPV of <i>Helicoverpa armigera</i> 2.0%AS, (1x10 ⁹ POBs count / ml min) Biological Insecticide
125.	<i>Paecilomyces lilacinus</i> 01.15% WP

1. **Source:** Central Insecticide Board (<http://ppqs.gov.in/>)
2. **Relevant Web site Link:** <http://ppqs.gov.in/>
3. You are advised to visit the relevant website for correct and updated information related to Plant Protection products listed above.
4. This list is downloaded by us from the website on 11.08.2022