



Government of India

Ministry of Agriculture & Farmers Welfare

Department of Agriculture & Farmers Welfare

Directorate of Plant Protection, Quarantine & Storage

Central Insecticide Board & Registration Committee

N.H.-IV, Faridabad-121 001 (Haryana)

MAJOR USES OF PESTICIDES

(Registered under the Insecticides Act, 1968)

(UPTO - 31/03/2024)

(Based on certificate issued)

Disclaimer: The document has been compiled on the basis of available information for guidance and not for legal purposes.

INSECTICIDES

- 1. Insecticides registered for Agriculture use (Page No. – 02)**
- 2. Insecticides combination registered for agriculture use (Page No. – 52)**
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Approved Uses of Registered Insecticides.

| Agricultural Use | | | | | |
|----------------------|---|------------------|---------------------|---------------------------|-----------------------|
| Crop | Common Name of the pest | Dosage/ha | | | Waiting Period (days) |
| | | a.i (gm) | Formulation (gm/ml) | Dilution in Water (Liter) | |
| Abamectin 01.90 % EC | | | | | |
| Rose (Ornamental) | Red spider mites (<i>Tetranychus urticae</i>) | 0.00048-0.00096% | 0.025-0.050% | 500 | 03 |
| Grapes | Mites | 0.014/L | 0.75 ml/L water | 500 – 1000 | 03 |
| Apple | European Red Mite and Spotted Red Spider Mite | 0.00095% | 0.05% | 6-7 litre water/tree | 7 |
| Acephate 75 % SP | | | | | |
| Cotton | Jassids | 292 | 390 | 500 – 1000 | 15 |
| | Bollworms | 584 | 780 | 500 – 1000 | 15 |
| Safflower | Aphids | 584 | 780 | 500 – 1000 | 15 |
| Rice (Paddy) | Yellow stem borer, Leaf folder, Plant Hoppers, Green leafhopper | 500 – 750 | 666 – 100 | 300 – 500 | 15 |
| Acephate 97 % DF | | | | | |
| Cotton | Jassids & Boll wormcomplex | 436.50 – 582 | 450 – 600 | 500 | 48 |
| Paddy (Rice) | Yellow stem borer,Leaf folder, Plant hoppers, Green leafhopper | 727.50 | 750 | 500 | 21 |
| Acephate 95 % SG | | | | | |
| Rice (Paddy) | Stem borer, Leaf folder, Brown | 562.50 | 592 | 500 | 30 |

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|---|---|---------|------------|------------|----|
| | planthopper | | | | |
| Cotton | Jassids | 750 | 790 | 500 | 18 |
| Chilli | Thrips, Fruit borer (<i>Helicoverpa armigera</i>), Aphid | 750 | 790 | 500 | 07 |
| Acetamiprid 20 % SP | | | | | |
| Cotton | Aphids, Jassids | 10 | 50 | 500 – 600 | 15 |
| | Whiteflies | 20 | 100 | 500 – 600 | 15 |
| Cabbage | Aphids | 15 | 75 | 500 – 600 | 07 |
| Okra (Bhindi) | Aphids | 15 | 75 | 500 – 600 | 03 |
| Chilli | Thrips | 10 – 20 | 50 – 100 | 500 – 600 | 03 |
| Rice (Paddy) | Brown plant hopper | 10 – 20 | 50 – 100 | 500 – 600 | 07 |
| Acetamiprid 25% + Bifenthrin 25 % WG | | | | | |
| Cotton | Jassid, aphids, thrips, whiteflies, <i>Pectinophora gossypiella</i> , <i>Helicoverpa armigera</i> , <i>Earias vitella</i> | 80 | 160 | 500 | 33 |
| Soybean | Whitefly, girdle beetle, semi loopier and tobacco caterpillar | 125 | 250 | 500 | 28 |
| Afidopyropen 50 g/L DC | | | | | |
| Brinjal | Whitefly, Jassids | 50 | 1000 | 500 – 750 | 01 |
| Cotton | Whitefly, Jassids | 50 | 1000 | 500 – 750 | 25 |
| Cucumber | Whitefly | 35 – 50 | 700 – 1000 | 500 | 05 |
| Alphacypermethrin 10.00% EC | | | | | |
| Cotton | Boll Worms | 15 – 25 | 165 – 280 | 600 – 1000 | 07 |

| Alphacypermethrin 10.00% SC | | | | | |
|--|---|---|---|--|----|
| Cotton | Boll Worms | 25 – 30 | 250 – 300 | 500 – 1000 | 10 |
| Name of Commodity | Common name of the pest | Dose | Exposure Period | Aeration Waiting period | |
| Aluminum Phosphide 56 % (3g Tablet, 10g Pouch) | | | | | |
| Stored Whole Cereals and Seed Grains Millet, Pulses Dry Fruits,Nuts Spices & Oil Seeds | Rice Weevil (<i>Sitophilus oryzae</i>),Lesser Grain Borer, Khapra Beetle (<i>Trogoderma granarium</i>), Rust Red Flour Beetle, Saw Toothed Grain Beetle, Caddle Beetle, Drug Store Beetle, Cigarette Beetle, Pulse Beetle | 03 tablets (03 gm) per ton or 150 gm per 100m ³ or 10 gm Pouch Per ton of commodity or 150 gm per 100 m ³ . | Minimum 05 Days (<i>Sitophilus oryzae</i>) or 07 Days (<i>Trogoderma granarium</i>) | One hour of partial aeration in case non-polyethylene packed commodities allowed by 6-8 hrs of full aeration. For polyethylene packed commodities minimum aeration period is 48 hrs. The waiting period for the release of stock is 48hrs in both the cases. Recommendation for bag stock 15 days. | |
| Mild Products: De-oiled Cakes, Rice Bran Flour, Grain Animal & Poultry Food SplitPulses (Dal) & other Processed Food | Long Headed Floor Beetle, Coffee Borer, Dried Fruit Beetle, Flat Grain Beetle, Carpet Beetle | 03 tablets/10 gm per ton or 225 gm/100 m ³ | 05 days | Aeration is waiting Period07 days to be checked PH ³ detector strips. | |
| Empty Godowns &Sheds | Rice Moth, Almond Moth, Mites, Fruit Fly, Granary Weevil, Caddle or Flour worm, Red Flour Beetle, Indian Meal Moth, Larger cabinet Moth, Wheat KernelDamage in | 14 tablets/1000 m ³ or 150 gm/100 m ³ or 4pouch 10 gms each/1000 CFTor 150 gm/100 m ³ | 72 hrs. | Aeration Period24 hrs detectorstrips or 4hosphine detect tubes should be used in the premises to signal safety of atmosphere. | |

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| | the field Cockroach. | | | |
| Rodents Burrows | Rodents | 01 Tablet / Burrow | - | - |
| Aluminum Phosphide 15 % (12g Tablet) | | | | |
| Stored whole cereals and seed grains. | Rice weevil, Rust redflower beetle | 1 tablet (12 g)per ton or 600100 m ³ | Non polythene Packed commodities: Partial-1 hour. Full-(6-8) hour. Polythene Packed commodities: Minimum 48 hrs. | 07-14 |
| Millet, pulses, dry fruits, nuts, spices & oilseeds (Air tight cover or godowns) | Lesser Grain Borer, Khapra Beetle, Saw Toothed Grain Beetle, Rice Moth, Almond Moth | 900 g/100 m ³ | - | 05 |
| Milled products: De-oiled cakes, Rice bran | Rust red flower beetle | 3 tablets/ton | 48 hrs. | 05 |
| Flour Suji meals and Crushed grain (Animal & poultry feed), Split Pulses Dals) | Saw Toothed Grain, Beetle , Rice Moth, Almond Moth, long headed flour beetle & Mites | 900 g/100 m ³ | 48 hrs. | 03 |
| Other processed food and Empty Godowns & Sheds (under air tight condition) | All insect pests. | 14 tablets/1000 tons or 600 g/1000 m ³ | 48 hrs. 24 hrs. | 03 |
| Aluminium Phosphide 77.50 % GR | | | | |
| Stored Grain | Red Rust Flour Beetle, Lesser GrainBorer, Rice Weevil, Khapra Beetle | 3.35 gm | 07 days | 24 hours |
| Aluminum Phosphide 06 % Tablet | | | | |

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| Crop & Non-Crop area | Field rodents | 0.72 g a.i./burrow | One tablet of 12 gm/burrow | - | |
| Barium Carbonate 1% P | | | | | |
| Godowns, Residential Premises, Public halls | Rats, Mice, Field Rodents | 10-20% Technical material to be mixed with bait | - | - | - |
| Beta-cyfluthrin 02.45 % SC | | | | | |
| Cotton | Bollworm | 12.5-18.75 | 500 – 750 | 500 – 1000 | 20 |
| Benfuracarb 03 % GR | | | | | |
| Rice (Paddy) | Stem borer, Leaf folder, Brown planthopper | 1000 | 33000 | - | 20 |
| Benfuracarb 40 % EC | | | | | |
| Red gram (Tur or Arhar) | Pod borer | 1000 | 2500 | 500 | 20 |
| Benzpyrimoxan 10% SC | | | | | |
| Rice | Brown Plant Hopper, White Backed Plant Hopper | 75-100 | 750-1000 | 500 | 31 |
| Bifenazate 50 % WP | | | | | |
| Rose | Two Spotted Mite (<i>Tetranychus urticae</i>) | 375 | 750 | 3000 | - |
| Bifenazate 22.60 % SC | | | | | |
| Rose | Two Spotted Mite (<i>Tetranychus urticae</i>) | 120 | 500 | 2000 | - |
| Bifenthrin 08 % SC | | | | | |
| Tea | Red spider mite, Tea Mosquito bug | 40.00 | 500 | 400 | 11 |
| Apple | Mites | 60 gm (0.006% Conc.) | 7.50 ml/tree | 10 lit/tree | 21 |
| Bifenthrin 08.80 % CS | | | | | |
| Rice (Paddy) | Stem borer, Leaf folder | 44 | 500 | 500 | 21 |

| Bifenthrin 10 % EC | | | | | |
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| Cotton | Bollworms, Whitefly | 80 | 800 | 500 | 15 |
| Rice (Paddy) | Stem borer, Leaf folder, Green leaf hopper | 50 | 500 | 500 | 21 |
| Sugarcane | Termites | 100 | 1000 | 500 | 300 |
| Bifenthrin 02.50 % EC | | | | | |
| Pre and post construction: Bifenthrin 2.5% EC shall be applied at 0.05% a.i. conc. i.e. 20.0 ml formulated product diluted in 1 liter of water for the control of termites in building during pre and post construction. Treatment should be as per IS 6313 (Part 2):2001 for pre construction chemical treatment and IS 6313 (Part-3): 2001 for post construction treatment of the existing building. | | | | | |
| Recommendation for use of control of Wood borer (Powder Post Beetle) in plywood, veneer and wood | | | | | |
| Use | Method of application | Dosage (a.i.) | Dilution | | |
| Plywood | Glue Line Poisoning | 10 g/ meter ³ of wood | 400 ml formulation per meter ³ of wood | | |
| | Dipping | 0.025% Solution | Mix 01 lit of formulation in 99 lit of waterto make 0.025% Solution | | |
| Veneer | Dipping | 0.025% Solution | Mix 01 lit of formulation in 99 lit of waterto make 0.025% Solution | | |
| Wood | Dipping /Brushing | 0.025% Solution | Mix 01 lit of formulation in 99 lit of waterto make 0.025% Solution | | |
| Brodifacoum 0.005 %w/w BB | | | | | |
| Pest | Dose rate | Manner of application /use pattern | | | |
| Field rats/Bandicootrats (<i>Bandoicota bengalensis</i> ; <i>B. indica</i>) Indian houserat / Black, Indian house rat/black rat/roof rat (<i>Rattus rattus</i> ; <i>R. meltade</i>), | One bait of 0.005% (a block of 20 gm each) per baiting station as a single feed | In and around premises (Residential, commercial, institutional, industrial public service premises, cold storage , Godowns, ware house, municipal locations, grain mandis, crop store rooms, burrow baiting, livestock rearing facilities, damp premises such as sewer etc.) | | | |
| House mouse/ Fieldmouse (<i>Mus musculus</i>) | | | | | |
| Broflanilide 300 g/l SC | | | | | |
| Chilli | Fruit borer (<i>Helicoverpa armigera</i>) | 12.6- 18.6 | 42-62 | 500 | 1 |
| | Thrips (<i>Scirtothrips dorsalis</i>) | 18.6- 25.2 | 62-84 | 500 | 1 |

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| Brinjal | Shoot and fruit borer (<i>Leucinodes orbonalis</i>) | 12.6- 18.6 | 42-62 | 500 | 1 |
| | Thrips (<i>Thrips tabaci</i>) | 18.5- 25.2 | 62-84 | 500 | 1 |
| Tomato | Fruit borer (<i>Helicoverpa armigera</i>) & leaf miner (<i>Liriomyza trifolii</i>) | 18.6-25.2 | 62-84 | 500 | 1 |
| Soybean | <i>Helicoverpa armigera</i> , <i>Spodoptera litura</i> , Semilooper (<i>Chrysodeixis acuta</i>) | 12.6-18.6 | 42-62 | 500 | 37 |
| Red gram | <i>Helicoverpa armigera</i> & <i>Maruca vitrata</i> | 12.6-18.6 | 42-62 | 500 | 25 |
| Broflanilide 20% SC | | | | | |
| Brinjal | Shoot and fruit borer (<i>Leucinodes orbonalis</i>), Thrips (<i>Thrips tabaci</i>) & Jassids (<i>Amrasca devastans</i>) | 25 | 125 | 500 | 1 |
| Cabbage | Diamond back moth (<i>Plutella xylostella</i>) & Tobacco caterpillar (<i>Spodoptera litura</i>) | 25 | 125 | 500 | 1 |
| Chilli | Fruit borer (<i>Helicoverpa armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>), Thrips (<i>Thrips tabaci</i>) and Jassids (<i>Amrasca devastans</i>) | 25 | 125 | 500 | 1 |
| Okra | Fruit borer (<i>Helicoverpa armigera</i>), Thrips (<i>Thrips tabaci</i>) and Jassids (<i>Amrasca devastans</i>) | 25 | 125 | 500 | 1 |
| Maize | Fall Army Worm | 25 | 125 | 500 | 29 |
| Bromadiolone 00.25 % CB | | | | | |
| Paddy (Rice) | Field Rat, Large Bandicota Indianhouse rat, Indianfield mouse | 0.005 | - | - | - |
| Wheat , Gram | Field Rat, Indian house rat | 0.005 | - | - | - |
| Groundnut ,Sugarcane | Field Rat, LargeBandicota | 0.005 | - | - | - |
| Coconut/ Bamboo | Indian house rat | 0.005 | - | - | - |
| Residentia lpremises | Field Rat, LargeBandicota | 0.005 | - | - | - |
| Poultry Farm | Indian house rat,House mouse | 0.005 | - | - | - |

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| Bromadiolone 00.005 % RB | | | | | |
| Paddy (Rice) | Field Rat, Large Bandicota, Indian house rat | 0.005 | - | - | - |
| Wheat | Indian Field mouse, Field Rat | 0.005 | - | - | - |
| Gram | Indian house rat, Field Rat, Indianhouse rat | 0.005 | - | - | - |
| Groundnut, Sugarcane | Field Rat, Large Bandicota | 0.005 | - | - | - |
| Coconut/ Bamboo | Indian house rat, Field Rat Large Bandicota | 0.005 | - | - | - |
| Residentialpremises | Indian House rat, House mouse | 0.005 | - | - | - |
| Poultry Farm | Indian house rat, House mouse, Large Bandicota | 0.005 | - | - | - |
| Buprofezin 25 % SC | | | | | |
| Cotton | Whitefly Aphids, Jassids, Thrips | 250.0 | 1000 | 500 – 750 | 20 |
| Chilies | Yellow Mite | 75.0-150.0 | 300-600 | 500 – 750 | 05 |
| Mango | Hoppers | 0.025% - 0.05% | 1-2 ml/liter of water | 5-15 liter per tree | 20 |
| Grapes | Mealy bugs | 250 – 375 | 1000 – 1500 | 500 – 1000 | 07 |
| Rice | Brown plant hopper, Green leaf hopper, White Back Plant Hopper | 200 | 800 | 400 – 500 | 20 |
| Buprofezin 70 % DF | | | | | |
| Okra (Bhindi) | Jassids | 200 | 286 | 500 | 05 |
| Cotton | Jassids, Whitefly | 250 – 300 | 357 – 429 | 500 | 20 |
| Rice | Brown plant hopper | 175 | 250 | 500 | 24 |
| Carbofuran 03 % CG | | | | | |
| Barley | Aphid, Cyst nematode | 1000 | 33300 | - | - |

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|---------------|--|---------|----------|---|---|
| | Jassids | 1250 | 41600 | - | - |
| Bajra | Shoot fly | 1500 | 50000 | - | - |
| Sorghum | Shoot fly | 1000 | 33300 | - | - |
| | Stem borer | 250 | 8300 | - | - |
| Jute | Nematodes | 1000 | 33300 | - | - |
| Groundnut | Pod borer | 1500 | 50000 | - | - |
| | White grub | 1000 | 33300 | - | - |
| French bean | White grub | 700 | 23300 | - | - |
| Potato | Aphid | 500 | 16600 | - | - |
| | Jassids | 1000 | 33300 | - | - |
| Tomato | Whitefly fly | 1200 | 40000 | - | - |
| Apple | Woolly aphid | 05/tree | 166/tree | - | - |
| Citrus | Nematode | 360 | 12000 | - | - |
| | Leaf miner | 1500 | 50000 | - | - |
| Maize | Stem borer, Shootfly, Thrips | 1000 | 33300 | - | - |
| Paddy (Rice) | Brown plant hopperGall midge, Stem borer, Green leaf hopper, Hispa | 750 | 25000 | - | - |
| | Nematodes | 1500 | 50000 | - | - |
| Mustard | Mustard leaf miner | 2000 | 66600 | - | - |
| | Whitefly | 1000 | 33300 | - | - |
| Soybean | Root knot nematode | 1500 | 50000 | - | - |
| Sugarcane | Top borer | 2000 | 66600 | - | - |
| Bhindi (Okra) | Jassids | 1000 | 33300 | - | - |
| Chilli | Aphid , Thrips | 1000 | 33300 | - | - |
| Cabbage | Nematode | 1000 | 50000 | - | - |
| Wheat | Ear cockle nematode | 3000 | 10000 | - | - |
| | Cereal cyst nematode | 2000 | 66600 | - | - |
| Brinjal | Root knot nematode, | 2000 | 66600 | - | - |

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| | Reni form nematode | | | | |
| Banana | Rhizome weevil | 01 g/suckers | 33 g/sucker | - | - |
| | Aphid | 50 g/suckers | 166 g/sucker | - | - |
| | Nematode | 1.5 g/suckers | 50 g/suckers | - | - |
| Peach | Leaf curl aphid | 1000 | 33300 | - | - |
| Mandarins | Soft greens scale | 0.40 g/plant | 13.30 g/plant | - | - |
| French bean | White grubs | 750 | 23300 | - | - |
| | Grey & Stem weevil | 1000 | 33300 | - | - |
| Pea | Shoot fly & Aphid | 1000 | - | - | - |
| Tea | Cock chafer grub | 0.30 g/plant | 33.10 g/plant | - | - |
| Carbosulfan 06 % Granules | | | | | |
| Rice (Paddy) | Stem borer, Gall midge, Green leaf hopper, Leaf folder | 1000 | 16700 | - | 37 |
| Carbosulfan 25% EC | | | | | |
| Rice (Paddy) | Green leaf hopper, White Back Plant Hopper, Brown plant hopper, Gall midge, Stem borer, leaf folder | 200 – 250 | 800 – 1000 | 500 – 1000 | 14 |
| Chilli | White aphid | 200 – 250 | 800 – 1000 | 500 – 1000 | 08 |
| Cumin | Aphid, Thrips | 312.5 | 1250 | 500 | 17 |
| Brinjal | Fruit and Shoot borer | 312.5 | 1250 | 500 | 5 |
| Cotton | Aphid, Thrips | 312.5 | 1250 | 500 | 70 |
| Carbosulfan 25 % DS | | | | | |
| Cotton | Jassid, Aphids, Thrips | 15 gm/kg seed | 60 gm/kg seed | Not required | - |
| Cartap Hydrochloride 04 % Granules | | | | | |
| Rice (Paddy) | Stem borer | 750.0 | 18750 | - | - |
| | Leaf folder, Whorl maggot | 750-1000 | 18750-25000 | - | - |

| Cartap Hydrochloride 50 % SP | | | | | |
|---------------------------------------|--|--------------|-----------|------------|-------|
| Rice (Paddy) | Stem borer, Leaf folder | 500 | 1000 | 500 – 1000 | - |
| Cartap Hydrochloride 75 % SG | | | | | |
| Rice | Yellow stem borer, Leaf folder | 318.75 – 375 | 425 – 500 | 250 – 500 | 35-89 |
| Chlorantraniliprole 18.50 % SC | | | | | |
| Rice | Stem borer, Leaf folder | 30 | 150 | 500 | 47 |
| Cabbage | Diamond back moth | 10 | 50 | 500 | 03 |
| Cotton | American bollworm, Spotted bollworm, Tobacco caterpillar | 30 | 150 | 500 | 09 |
| Sugarcane | Termite | 100 – 125 | 500 – 625 | 1000 | 208 |
| | Early shoot borer, Top borer | 75 | 375 | 1000 | 208 |
| Tomato | Fruit borer | 30 | 150 | 500 | 03 |
| Chilli | Fruit borer | 30 | 150 | 500 | 03 |
| Brinjal | Shoot & Fruit borer | 40 | 200 | 500 – 750 | 22 |
| Pigeon pea | Pod borer | 30 | 150 | 500 – 750 | 29 |
| Soybean | Green Semi looper, Stem fly, Girdle beetle | 30 | 150 | 500 – 750 | 22 |
| Bengal gram | Pod borers | 25 | 125 | 500 | 11 |
| Black gram | Pod borers | 20 | 100 | 500 | 20 |
| Bitter gourd | Fruit borers & Caterpillars | 20 – 25 | 100 – 125 | 500 | 07 |
| Okra (Bhindi) | Fruit Borer | 25 | 125 | 500 | 05 |
| Maize | Spotted stem borer (<i>Chilo partellus</i>), Pink stem borer (<i>Sesamia inferens</i>) | 40 | 200 | 500 | 10 |
| Groundnut | Tobacco caterpillar (<i>Spodoptera litura</i>) | 30 | 150 | 500 | 28 |

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|--------------------------------|---|----------|-------------|--------------|-----|
| Green gram | Pod borers (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i> and <i>Maruca testulatis</i>) | 25 | 125 | 400-600 | 14 |
| Chlorantraniliprole 00.40 % GR | | | | | |
| Rice (Paddy) | Yellow stem borer,Leaf folder | 40 | 10000 | - | 53 |
| Sugarcane | Early shoot borer,Top borer | 75 | 18.75 | - | 147 |
| Chlorantraniliprole 35 % WG | | | | | |
| Okra | Fruit borer (<i>Helicoverpa armigera</i> & <i>Earias vittella</i>) | 25 | 71 | 500 | 05 |
| Tomato | Fruit borer (<i>Helicoverpa armigera</i>) | 30 | 86 | 500 | 03 |
| Chlorantraniliprole 50% W/w FS | | | | | |
| Rice | Yellow Stemborer (<i>Scirpophaga incertulas</i>), Leaf folder (<i>Cnaphalocrocis medinalis</i>) | 75 | 120 | Seed Dresser | - |
| Maize | Spotted Stemborer (<i>Chilo partellus</i>) | 40 | 64 | Seed Dresser | - |
| | Fall army worm (<i>Spodoptera frugiperda</i>) | 70 | 112 | | |
| Chlorfenapyr 10 % SC | | | | | |
| Cabbage | Diamond back moth(<i>Plutella xylostella</i>) | 75 – 100 | 750 –1000 | 500 | 07 |
| Chilli | Mites (<i>Polyphagotarsonemus latus</i>) | 75 – 100 | 750 –1000 | 500 | 05 |
| Chlorfluazuron 05.40 % EC | | | | | |
| Cabbage | Diamond back moth,Tobacco leaf eating caterpillar | 75 | 1500 | 500 | 07 |
| Cotton | American bollworm,Tobacco leaf eating caterpillar | 75 – 100 | 1500 - 2000 | 500 | 10 |
| Chlorpyrifos 10 % Granules | | | | | |
| Rice (Paddy) | Stem borer, Leaf folder, Gall midge | 1000 | 10000 | - | 30 |

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|---------------------------------|---|-----------|------------|----------------|----|
| Chlorpyrifos 75 % w/w WG | | | | | |
| Rice | Yellow stem borer (<i>Scirpophaga</i> <i>l4incertulas</i>) | 375 – 400 | 500 – 533 | 500 –1000 | 15 |
| Chlorpyrifos 19% ME | | | | | |
| Paddy | Stem Borer | 270.75 | 1425 | 500 | 30 |
| Chlorpyrifos 20 % EC | | | | | |
| Paddy (Rice) | Hispa | 250 | 1250 | 500 –1000 | - |
| | Leaf folder | 375 | 1875 | 500 –1000 | - |
| | Gall midge, Stem borer, Whorl maggot | 250 | 1250 | 500 –1000 | - |
| Beans | Pod borer, Black bug | 600 | 3000 | 500 –1000 | - |
| Gram | Cut worm | 500 | 2500 | 500 –1000 | - |
| Sugarcane | Black bug | 150 | 750 | 500 –1000 | - |
| | Early shoot & stalkborer | 250 – 300 | 1250 –1500 | 500 –1000 | - |
| | Pyrilla | 300 | 1500 | 500 –1000 | - |
| Cotton | Aphid, Bollworm, Whitefly | 250 | 1250 | 500 –1000 | - |
| | Cut worm | 750 | 3750 | 500 –1000 | - |
| Groundnut | Aphid | 200 | 1000 | 500 –1000 | - |
| | Root grub | 225 | 1125 | 500 –1000 | - |
| Mustard | Aphid | 100 | 500 | 500 –1000 | - |
| Brinjal | Shoot & fruit borer | 200 | 1000 | 500 –1000 | - |
| Cabbage | Diamond back moth | 400 | 2000 | 500 –1000 | - |
| Onion | Root grub | 1000 | 5000 | 500 –1000 | - |
| Apple | Aphid | 0.05% | 3750-5000 | 1500 – 2000 | - |
| Ber | Leaf hopper | 0.03% | 2250-3000 | 1500 – 2000 | - |
| Citrus | Black citrus, Aphid | 0.02% | 1500-2000 | 1500 – 2000 | - |
| Tobacco | Ground beetle | 350 | 1750 | 500 – | - |

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| | | | | 1000 | |
| Termite control | | | | | |
| Non cropped area: | Building (Pre & Post construction treatment @1.0% a.i.) Forestry @1.0% a.i. | | | | |
| Cropped area: | Wheat: 3-4 ml/kg seed Barley: 4-6 ml/kg seed Gram: 15-30 ml/kg seed | | | | |
| Soil treatment: | Wheat: 2-3 lit/ha. Sugarcane: 6.25 lit/ha. | | | | |
| Chlorpyrifos 50 % EC | | | | | |
| Rice (Paddy) | Stem borer, Leaffolder | 375-400 | 750-800 | 500-1000 | 15 |
| Cotton | Bollworms | 500-600 | 1000-1200 | 500-1000 | 30 |
| For non- agricultural use: - For protecting building from termite attack at pre and posts construction stages, apply Chlorpyriphos 50% EC @ 0.5% and 1.0% concentration. | | | | | |
| Chlorpyrifos 01.50 % DP | | | | | |
| Paddy (Rice) | Stem borer, Green leaf hopper, Brownplant hopper, Leaf folder, Gall midge, Grass hopper | 375 | 25000 | - | 07 |
| Bengal gram | Pod borer (<i>Helicoverpa armigera</i>) | 375 | 25000 | - | 07 |
| Chromafenozide 80 % WP | | | | | |
| Paddy (Rice) | Leaf folder, Stemborer | 75-100 | 94-125 | 500 | 32 |
| Clothianidin 0.5 % GR | | | | | |
| Okra | Jassids & White fly | 40 – 60 | 8 - 12 | -- | 01 |
| Clothianidin 50 % WDG | | | | | |
| Rice (Paddy) | Brown plant hopper | 10 – 12 | 20 – 24 | 500 | 12 |
| Cotton | Jassids | 15 – 20 | 30 – 40 | 500 | 20 |
| | Whitefly | 20 – 25 | 40 – 50 | 500 | 20 |

| | | | | | |
|-------------------------------------|---|----------------|----------------|------|-----|
| Cotton (Soil drench) | Jassids, Aphids,Thrips, Whitefly | 100 – 125 | 200 – 250 | 1000 | 76 |
| Sugarcane (Soil drench) | Termite | 125 | 250 | 1000 | 310 |
| Tea | Mosquito Bug(<i>Helopeltis theiovora</i>) | 60 | 120 | 500 | 05 |
| Coumatetralyl 0.75 % w/w Gel | | | | | |
| Indoor or outdoor | Rats (<i>Rattus rattus</i> , <i>Rattus norvegicus</i> , <i>Bandicota bengalensis</i> , <i>Bandicota indica</i> , | 01 mg per spot | 2.50 per spot | - | - |
| | <i>Tetra indica</i> , <i>Meriones hurrianae</i>) | | | | |
| Indoor | Mice | 01 | 2.50 | - | - |
| Coumatetralyl 0.0375 % Bait | | | | | |
| Indoor or outdoor | Rats (<i>Rattus rattus</i> , <i>Rattus norvegicus</i> , <i>Bandicota bengalensis</i> , <i>Bandicota indica</i> , <i>Tetra indica</i> , <i>Meriones hurrianae</i>) | 01 mg per spot | 02.50 per spot | - | - |
| Indoor | Mice | 01 | 02.50 | - | - |
| Cyantraniliprole 10.26 % OD | | | | | |
| Grapes | Thrips (<i>Scirtothrips dorsalis</i>), Flea beetle(<i>Scelodonta strigicollis</i>) | 70 | 700 | 1000 | 05 |
| Pomegranate | Thrips (<i>Scirtothripsdorsalis</i>), Pomegranate butterfly (<i>Deudorixossypi16s</i>) | 75 (0.0075%) | 750 (0.075%) | 1000 | 05 |
| | Whitefly (<i>Siphoninus phillyreae</i>), Aphids (<i>Aphis punicae</i>) | 90 (0.009%) | 900 (0.09%) | 1000 | 05 |
| Cabbage | Cabbage Aphid (<i>Brevicoryne brassicae</i>), MustardAphid (<i>Lipaphis erysimi</i>), Diamond back moth (<i>Plutellaxylostella</i>), | 60 | 600 | 500 | 05 |

| | | | | | |
|----------|---|----|-----|-----|----|
| | Tobaccocaterpillar (<i>Spodoptera litura</i>) | | | | |
| Chilli | Thrips (<i>Scirtothrips dorsalis</i>), Fruit borer(<i>Helicoverpa armigera</i>), Tobaccocaterpillar (<i>Spodoptera litura</i>) | 60 | 600 | 500 | 03 |
| Tomato | Leaf miner (<i>Liriomyza trifolii</i>), Aphids (<i>Aphis ossypii</i>), Thrips (<i>Thrips tabaci</i>), Whitefly (<i>Bemesia tabaci</i>), Fruit borer (<i>Helicoverpa armigera</i>) | 90 | 900 | 500 | 03 |
| Gherkins | Leaf miner (<i>Liriomyza trifolii</i>), Red pumpkinbeetle (<i>Aulacophora foveicollis</i>), Aphids (<i>Aphis gossypii</i>), Thrips (<i>Thrips palmi</i>), Whitefly (<i>Bemesia tabaci</i>), Pumpkin caterpillar (<i>Diaphania indica</i>), Fruit fly (<i>Bactrocera cucurbitae</i>) | 90 | 900 | 500 | 05 |
| Okra | Whitefly- <i>Bemisia tabaci</i> Aphid- <i>Aphis gossypii</i> Shoot & fruit borer- <i>Earias vitella</i> Tobacco caterpillar- <i>Spodoptera litura</i> Fruit borer- <i>Helicoverpa armigera</i> | 90 | 900 | 500 | 3 |
| Brinjal | Whitefly- <i>Bemisia tabaci</i> Shoot and fruit borer – <i>Leucinodes orbonalis</i> Aphids- <i>Aphis gossypii</i> Thrips- <i>Thrips</i> <i>tabaci</i> | 90 | 900 | 500 | 3 |
| Cotton | Whitefly- <i>Bemisia tabaci</i> Aphids- <i>Aphis gossypii</i> Thrips- <i>Thrips tabaci</i> Tobacco caterpillar- <i>Spodoptera litura</i> Bollworms- <i>Helicoverpa armigera</i> & <i>Earias vitella</i> | 90 | 900 | 500 | 7 |

| | | | | | |
|---|---|-----------|---------------|------------|----|
| Bittergourd | Thrips- <i>Thrips palmi</i> White fly- <i>Bemisia tabaci</i> Aphids- <i>Aphis gossypii</i> Pumpkin Caterpillar- <i>Diaphania indica</i> Leaf miner- <i>Liriomyza trifolii</i> | 90 | 900 | 500 | 5 |
| Ridgegourd | Thrips- <i>Thrips palmi</i> White fly- <i>Bemisia tabaci</i> Aphids- <i>Aphis gossypii</i> Pumpkin Caterpillar- <i>Diaphania indica</i> Leaf miner- <i>Liriomyza trifolii</i> | 90 | 900 | 500 | 5 |
| Watermelon | Thrips- <i>Thrips palmi</i> White fly- <i>Bemisia tabaci</i> Aphids- <i>Aphis gossypii</i> Leaf miner- <i>Liriomyza trifolii</i> | 90 | 900 | 500 | 5 |
| Cyclaniliprole 9.3% W/W DC (Cyclaniliprole 10.0% W/V DC) | | | | | |
| Rice | Stem borer & Leaf folder | 35-40 | 350-400 | 500 | 40 |
| Cyclaniliprole 8.0 % SL | | | | | |
| Rice | Stem borer and Leaf Folder | 35- 40 | 437.5 - 500 | 500 | 30 |
| Cyenoxyfen 30 % SC | | | | | |
| Apple | Mite | 60 – 90 | 200 – 300 | 1000 | 15 |
| Chilli | Mite | 60 – 90 | 200 – 300 | 400 – 600 | 07 |
| Cyflumetofen 20 % SC | | | | | |
| Tea | Red spider mite | 125 – 150 | 625 – 750 | 400 – 500 | 05 |
| Cypermethrin 00.25% DP | | | | | |
| Brinjal | Fruit & shoot borer | 50 – 60 | 20000 – 24000 | - | 03 |
| Cypermethrin 10 % EC | | | | | |
| Cotton | Spotted bollworm, American bollworm, Pink bollworm | 50 – 70 | 550 – 760 | 150 – 1000 | 07 |
| Cabbage | Diamond back moth | 60 – 70 | 650 – 760 | 100 – 400 | 07 |
| Okra (Bhindi) | Fruit borer | 50 – 70 | 550 – 760 | 150 – 400 | 03 |
| Brinjal | Fruit & shoot borer | 50 – 70 | 550 – 760 | 150 – 400 | 03 |

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|------------------------------------|--|------------|-------------|-----------|----|
| Wheat | Shoot fly | 50 | 550.0 | 500 – 800 | 14 |
| Sunflower | Bihar hairy caterpillar | 60 – 70 | 650 – 760 | 500 – 700 | 14 |
| Cypermethrin 25 % EC | | | | | |
| Cotton | Bollworms | 40 – 70 | 160 – 280 | 400 – 800 | - |
| | Jassids, Thrips | 20 – 30 | 80 – 120 | 200 – 300 | - |
| Bhindi (Okra) | Shoot & fruit borer, Jassids | 37 – 50 | 150 – 200 | 500 | 03 |
| Brinjal | Shoot & fruit borer, Jassids, <i>Epilachna</i> grub (Hadda beetle) | 37 – 50 | 150 – 200 | 500 | 01 |
| Dazomet | | | | | |
| Tobacco (Nursery) | Root knot nematode, Stunt nematode, Reni-form nematode | 30 – 40 | 30 – 40 | - | - |
| Tomato nursery | Root knot nematode | 30 – 40 | 30 – 40 | - | |
| Floriculture (Carnation & Gerbera) | Root-knot nematode | 30 – 40 | 30 – 40 | | - |
| Deltamethrin 11% w/w EC | | | | | |
| Cotton | Bollworms | 12.50 | 125 | 400 – 600 | 30 |
| Rice (Paddy) | Stem borer, Leaf folder, Green leafhopper, Whorl maggot | 15 | 150 | 500 | 13 |
| Tea | Tea Thrips | 10 | 100 | 400 | 15 |
| Rice | Leaf folder | 15 – 18.75 | 150 – 187.5 | 500 | 13 |
| Tomato | Fruit borers | 10 – 12.5 | 100 – 125 | 375 – 500 | 3 |
| Okra | Fruit Borers | 10-12.5 | 100-125 | 375 – 500 | 3 |
| Chilli | Fruit borers | 17.5 | 175 | 500 | 5 |
| Onion | Thrips | 15 | 150 | 500 | 5 |

| | | | | | |
|---|---|---------------|--------------------|--------------------------------------|----|
| Deltamethrin 25 % Tablet | | | | | |
| Cotton | Bollworms | 12.50 | 50 | 400 – 600 | 30 |
| Deltamethrin 01.80 % EC | | | | | |
| Cotton | Bollworms | 12.50 | 781 | 400 – 600 | 30 |
| | Sucking insects | 10 | 625 | 400 – 600 | 30 |
| Rice (Paddy) | Stem borer, Leaf folder | 10 – 12.50 | 625 – 780 | 500 | 07 |
| Deltamethrin 02.50 % WP | | | | | |
| Wheat & Rice (Grain & seed in stacks) | Rice weevil, Lesser grain borer, Khaprabeetle, Red flour beetle, Saw toothed grain beetle, Rice moth, Almond moth | 30 | 1200 | 1 litre/30 m ² | - |
| Walls, ceilings floors of Godowns | Rice weevil, Lesser grain borer, Khaprabeetle, Red flour beetle, Saw toothed grain beetle, Rice moth, Almond moth | 30 | 1200 | 1.5-2.5 litre/50 m ² | - |
| Public health | Mosquito | 625 – 1250 | 25000 – 50000 | - | - |
| Deltamethrin 02.80 % EC | | | | | |
| Cotton | Bollworm | 12.50 | 500 | 400 – 600 | - |
| | Sucking Insects | 10 | 400 | 400 – 600 | - |
| Tea | Thrips, Caterpillar | 3-4 | 120 – 150 | 400 – 600 | 03 |
| | Leaf folder | 10 | 400 | 400 – 600 | 03 |
| | Lopper | 2.50 – 3.75 | 100 – 150 | 400 – 600 | 03 |
| Bhindi (Okra) | Shoot & fruit borer | 10 – 15 | 400 – 600 | 400 – 600 | 01 |
| | Jassid | 10 | 400.0 | 400 – 600 | 01 |
| Groundnut | Leaf miner | 12.50 | 500.0 | 400 – 600 | 03 |
| Mango | Hoppers | 0.03 – 0.05 % | 0.33-0.5 ml/lit | As per spray field requirement | 01 |
| Chilli | Fruit borer | 10 – 12.5 | 400 – 500 | 400 – 600 | 05 |

| | | | | | |
|--|-------------------------------------|---------------------------------------|----------------------------------|--|----|
| Brinjal | Shoot & Fruit Borer | 10 – 12.5 | 400 – 500 | 500 | 03 |
| Red Gram (Arhar/Tur) | Pod Borer & Pod Fly | 12.50 | 500.0 | 500 | 10 |
| Deltamethrin 25% WDG | | | | | |
| Name Of Insect Pest | Dosage | | | | |
| | Infestation | Requirement mg a.i./m ² | Formulation (ml)/ litre water | Spray solution (ml)/ m ² | |
| Mosquitoes (<i>Aedes aegypti</i> , <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i>) Housefly (Musca domestica) Cockroaches (<i>Periplanata americana</i> , <i>blatella germinica</i>), Bed Bugs (<i>Cimex hemipterus</i>) | Low | 10 | 0.8 g/ litre water | 50 | |
| | Moderate | 20 | 1.6/ litre water | 50 | |
| | High | 25 | 2.0/ litre water | 50 | |
| Diafenthiuron 47.80 % SC | | | | | |
| Cotton | Whiteflies, Aphids, Thrips, Jassids | 250 | 500 | 500 | 41 |
| Potato | Whiteflies, Leaf hoppers, Mites | 250 | 500 | 500 | 44 |
| Soyabean | Whiteflies, mites | 250 | 500 | 500 | 44 |
| Diafenthiuron 50 % WP | | | | | |
| Cotton | Whiteflies, Aphids, Thrips, Jassids | 300 | 600 | 500 – 1000 | 21 |
| Cabbage | Diamond back moth | 300 | 600 | 500 – 750 | 07 |
| Chilli | Mites | 300 | 600 | 500 – 750 | 03 |
| Brinjal | Whitefly | 300 | 600 | 500 – 750 | 03 |
| Cardamom | Thrips, Capsule borer | 400 | 800 | 1000 | 07 |
| Citrus | Mites | 1.0 g/l | 2.0 g/l | 2-3 | 30 |

| | | | | Liter/ ha. | |
|------------------------------|--|------------|-----------|------------|----|
| Cotton | Whiteflies, Aphids, Thrips, Jassids | 239 | 500 | 500 | 30 |
| watermelon | Whiteflies and Red spider mites | 300 | 600 | 500 | 05 |
| Okra | Whiteflies, Red Spider mites and Jassids | 300 | 600 | 500 | 05 |
| Tomato | Whiteflies and Redspider mites | 300 | 600 | 500 | 05 |
| Diflubenzuron 25 % WP | | | | | |
| Cotton | Tobacco Caterpillar | 75 – 87.50 | 300 – 350 | 500 – 1000 | - |
| | Bollworms | 75 | 300 | 500 – 1000 | - |
| Dimethoate 30 % EC | | | | | |
| Bajra | Milky weed bug | 180-200 | 594-660 | 500 -1 000 | - |
| Cotton | Aphis, Jassids, Thrips | 200 | 660 | 500 - 1000 | 24 |
| | Grey weevil | 300 | 1000 | | |
| Cauliflower | Painted bug, MustardAphid | 200 | 660 | 500 – 1000 | - |
| Maize | Stem borer | 200 | 660 | 500 – 1000 | - |
| | Shoot fly | 350 | 1155 | 500 – 1000 | - |
| Sorghum | Midge | 500 | 1650 | 500 – 1000 | - |
| Castor | Jassids, Mites | 250 | 825 | 500 – 1000 | - |
| | Semi looper | 350 | 1155 | 500 – 1000 | - |
| Mustard | Leaf minor, Aphid,Sawfly | 200 | 660 | 500 – 1000 | - |
| Safflower | Aphid | 200 | 660 | 500 – 1000 | - |
| Potato | Thrips | 200 | 660 | 500 – 1000 | - |
| | Aphid | 200 | 660 | 500 – 1000 | - |
| Bhindi (okra) | Aphid | 700 | 2310 | 500 – 1000 | - |
| | Leaf hopper, Jassids | 600 | 1980 | 500 – 1000 | - |

| | | | | | |
|--------------------------------------|---|-------------|-----------|------------|----|
| Brinjal | Jassids | 600 | 1980 | 500 – 1000 | - |
| | Shoot borer | 200 | 660 | 500 – 1000 | - |
| Rose | Scale | 750 | 2475 | 500 – 1000 | - |
| | Thrips | 400 | 1320 | 500 – 1000 | - |
| Dinotefuran 20 % SG | | | | | |
| Rice (Paddy) | Brown plant hopper | 30 – 40 | 150 – 200 | 500 | 21 |
| Cotton | Whitefly, Jassids, Aphids & Thrips | 25 – 30 | 125 – 150 | 500 | 15 |
| Dinotefuran 70 % WG | | | | | |
| Cotton | Aphids, Whitefly, Leaf Hopper | 61.2 | 87 | 500 | 17 |
| Brinjal | Jassids, Aphids and Whitefly | 61.2 | 87 | 500 | 7 |
| Rice | Brown Plant Hopper, White Backed Plant Hopper and Green leaf Hopper | 61.2 | 88 | 500 | 32 |
| Emamectin benzoate 05 % SG | | | | | |
| Cotton | Boll worms | 9.5 – 11.0 | 190 – 220 | 500 | 10 |
| Okra (Bhindi) | Fruit & Shoot Borer | 6.75 – 8.50 | 135 – 170 | 500 | 05 |
| Cabbage | Diamond back moth | 7.5 – 10 | 150 – 200 | 500 | 03 |
| Chilli | Fruit borer, Thrips, Mites | 10 | 200 | 500 | 03 |
| Brinjal | Fruit and Shoot borer | 10 | 200 | 500 | 03 |
| Red gram (Arhar/Tur) | Pod borer | 11 | 220 | 500 – 750 | 14 |
| Chickpea | Pod borer | 11 | 220 | 500 | 14 |
| Grapes | Thrips | 11 | 220 | 500 – 1000 | 05 |
| Tea | Tea looper | 10 | 200 | 500 | 01 |
| Emamectin benzoate 01.90 % EC | | | | | |
| Cotton | Boll worms | 11 | 580 | 500 | 15 |

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|--|--|-----------------|--|---------------------------------|--------------------|---|
| Chilli | Fruit borer , Thrips | 07.13 | 375 | 500 | 03 | |
| Chick pea | Pod borer | 07.13 | 375 | 500 | 14 | |
| Paddy | Leaf folder & Hispa | 8.08 | 425 | 500 | 48 | |
| Soybean | Green semi looper,pod borer, Girdle beetle & Tobacco caterpillar | 8.08 | 425 | 500 | 20 | |
| Ethion 50 % EC | | | | | | |
| Tea | Red spider mites, Purple mites, Yellowmite, Thrips, Scale | 250 | 500 | 500 – 1000 | 03 | |
| Cotton | Whitefly | 750–1000 | 1500 –2000 | 500 – 1000 | - | |
| | Bollworms | 1000 | 2000 | 500 – 1000 | 25 | |
| Chilli | Mites & thrips | 75 – 1000 | 1500 –2000 | 500 – 1000 | 05 | |
| Gram | Pod borer | 500 –750 | 1000 –1500 | 500 – 1000 | 21 | |
| Pigeon pea or Redgram (Arhar/Tur) | Pod borer | 500 – 750 | 1000 –1500 | 500 – 1000 | 21 | |
| Soybean | Girdle beetle & stemfly | 750 | 1500 | 500 – 1000 | 30 | |
| Ethofenoprox 10 % EC | | | | | | |
| Rice | Brown plant hopper,Green leaf hopper, Stem borer, Leaf folder, Gall midge, Whorl maggot, White backed plant hopper | 50 – 75 | 500 – 750 | 500 | 15 | |
| Ethylene dichloride+Carbon tetrachloride (3:1) | | | | | | |
| Crop | Common name of the pest | Cond. | Weight of volume | Exposure period | Conc. In air (ppm) | Aeration / Waiting |
| Stored whole cereals MilletsPulses | Rice weevil, Lesser grain Borer, Khapra Beetle, Rust | Air tight cover | 300 –400 gm/m ³ (230 – 307 ml) | 48 – 72 Hr. forcover fumigation | 10 ppm | Partial aeration Forat least 1 hr. followed |

| | | | | | | |
|-----------------------------|---|-----------------|-----------------------|---------|-----------|---|
| | red flour beetle, Pulse beetle, Dried fruit Beetle | | | | | by 24 hr. complete Aeration waiting period of 24hr. |
| Godown fumigation | Rice weevil, Lesser grain Borer, Khapra Beetle, Rust red flour beetle, Pulse beetle, Dried fruit Beetle | Air tight cover | 150 gm/m ³ | 07 days | 10 ppm | Partial aeration For at least 1 hr. followed by 24 hr. complete Aeration waiting period of 24 hr. |
| Etoxazole 10 % SC | | | | | | |
| Brinjal | Red spider mite | | 40 | 400 | 400 – 500 | 05 |
| Tea | Red spider mite | | 40 | 400 | 400 | 05 |
| Fenazaquin 10 % EC | | | | | | |
| Tea | Red spider mite, Pink Mite, Purple mite | | 100 | 1000 | 400 – 600 | 07 |
| | Scarlet mite | | 125 | 1250 | 400 – 600 | 07 |
| Chilli | Yellow mite | | 125 | 1250 | 400 – 600 | 10 |
| Apple | Red spider mite, Twospotted mite | | 40 | 400 | 1000 | 30 |
| Okra (Bhindi) | Red spider mite | | 125 | 1250 | 500 | 07 |
| Brinjal | Red spider mite | | 125 | 1250 | 500 | 07 |
| Tomato | Two spotted spider mite | | 125.0 | 1250 | 500 | 07 |
| Fenazaquin 18.3 % SC | | | | | | |
| Brinjal | Red spider mite | | 114.375 | 625 | 400 – 500 | 10 |
| Tea | Red spider Mite (<i>Oligonychus coffeae</i>) | | 80 – 100 | 400-500 | 400 | 07 |
| Apple | European Red mite | | 40 | 200 | 1000 | 30 |

| | | | | | |
|----------------------------------|--|-----------------------------|-------------------|-------------|----|
| Fenobucarb (BPMC) 50 % EC | | | | | |
| Rice | Brown plant hopper, Green leaf hopper | 250 – 750 | 500 – 1500 | 500 | 30 |
| Fenpropathrin 10 % EC | | | | | |
| Cotton | Pink boll worm, Spotted boll worm, American boll worm | 75 – 100 | 750 – 1000 | 750 – 1000 | 14 |
| Fenpropathrin 30 % EC | | | | | |
| Cotton | Pink boll worm, Spotted boll worm, American boll worm, White fly | 75 - 100 | 250 – 340 | 750 – 1000 | 14 |
| Chilli | Thrips, Whitefly, Mites | 75 – 100 | 250 – 340 | 750 – 1000 | 07 |
| Brinjal | Whitefly, Shoot and Fruit borer, Mites | 75 – 100 | 250 – 340 | 750 – 1000 | 10 |
| Okra (Bhindi) | Whitefly, Shoot and Fruit borer, Mites | 75 – 100 | 250 – 340 | 750 – 1000 | 07 |
| Tea | Mites | 50 – 60 | 165 – 200 | 400 – 500 | 07 |
| Paddy (Rice) | Yellow stem borer, Leaf folder | 100 | 333 | 500 | 30 |
| Fenpyroximate 05 % EC | | | | | |
| Tea | Red spider mite, Pink Mite, Purple mite | 15 – 30 | 300 – 600 | 400 – 500 | 07 |
| Chilli | Yellow mite | 15-30 | 300 – 600 | 300 – 500 | 07 |
| Cotton | Jassids, Mites | 37.50 | 750 | 500 | 15 |
| Coconut | Eriophyid mites | 0.50 gm/tree (Root feeding) | 10ml/lit. | As required | - |
| | Eriophyid mites | 0.056-0.075 gm/tree | 0.75-01.0 ml/lit. | As required | - |
| Fenpyroximate 05 % SC | | | | | |
| Chilli | Yellow mite | 15 – 30 | 300 – 600 | 500 – 750 | 03 |

| | | | | | |
|--------------------------------|--|----------|-------------|-----------|-----|
| Tea | Red spider mite, Pinkmite, Purple mite | 30 – 60 | 600 – 1200 | 400 | 07 |
| Fenpropathrin 10% EW | | | | | |
| Rice | Stem borer (<i>Scirpophaga incertulas</i>) and leaf folder (<i>Cnaphalocrocis medinalis</i>) | 100 | 1000 | 5000 | 58 |
| Fenvalerate 20 % EC | | | | | |
| Cauliflower | Diamond back moth, American boll worm, Aphids, Jassids | 60 -75 | 300 – 375 | 600 – 750 | 07 |
| Cotton | Boll worm | 75 -100 | 375 – 500 | 700 – 900 | 07 |
| | Aphids, Jassids, Thrips | 25 -40 | 125 – 200 | 250 – 400 | 07 |
| Brinjal | Shoot & fruit borer, Aphids | 75 – 100 | 375 – 500 | 600 – 800 | 05 |
| Okra (Bhindi) | Shoot & fruit borer, Jassids | 60 – 75 | 300 – 375 | 600 – 750 | 07 |
| Fenvalerate 02 % Conc. | | | | | |
| Cotton | Spotted & Spiny, Pink American, Egyptian boll worm | 80 – 100 | 4000 – 5000 | - | - |
| Fenvalerate 00.40 % DP | | | | | |
| Cotton | Spotted Bollworm, Pink Bollworm | 80 – 100 | 20000-25000 | - | 07 |
| Fipronil 05 % SC | | | | | |
| Rice | Stem borer, Brown plant hopper, Green leaf hopper, Rice leafhopper, Rice Gall midge, Whorl maggot, White backed plant hopper | 50 – 75 | 1000 – 1500 | 500 | 32 |
| Cabbage | Diamond back moth | 40 – 50 | 800 – 1000 | 500 | 07 |
| Chilli | Thrips, Aphids, Fruitborers | 40 – 50 | 800 – 1000 | 500 | 07 |
| Sugarcane | Early shoot borer & Root borer | 75 – 100 | 1500 – 2000 | 500 | 270 |
| Cotton | Aphid, Jassid, Thrips, White fly | 75 – 100 | 1500 – 2000 | 500 | 06 |
| | Boll worms | 100 | 2000 | 500 | 07 |
| Fipronil 18.87 % w/w SC | | | | | |

| | | | | | |
|--|---|------------------|-----------------------------|---------------------|---------------------------|
| Cotton | Thrips | 75 | 375 | 375 – 500 | 21 |
| Chilli | Thrips, Aphids, <i>Helicoverpa armigera</i> | 50 | 250 | 500 | 5 |
| Rice | Stem Borer, Leaf Folder , Brown Plant Hopper | 50 | 250 | 500 | 46 |
| Fipronil 02.92 % EC | | | | | |
| Pre-construction (Building) | Termite | 0.25% | 100 | 01 | IS:6313-2001 (Part-2) |
| Post-construction (Building) | Termite | 0.25% | 100 | 01 | IS:6313-2001 (Part-3) |
| Fipronil 00.30 % GR | | | | | |
| Rice | Stem borer, Brown plant hopper, Green leaf hopper Rice leafhopper, Rice gall midge, Whorl maggot, White backed plant hopper | 50 – 75 | 16670 – 25000 | - | 32 |
| Sugarcane | Early shoot borer, Root borer | 75.0 – 100 | 25000 – 33300 | - | 09 |
| Wheat | Termites | 0.06 | 20 kg | - | 91 |
| Fipronil 00.60 % w/w GR | | | | | |
| Rice | Stem borer & Leaf folder | 60 | 10 | - | 65 |
| Sugarcane | Early shoot borer, Termite | 75 | 12.5 | - | 229 |
| Fipronil 80 % WG | | | | | |
| Rice | Stem borer, Leaf folder | 40 – 50 | 50 – 62.50 | 375 – 500 | 19 |
| Grapes | Thrips | 40 – 50 | 50 – 62.5 | 750 – 1000 | 10 |
| Onion | Thrips | 60 | 75 | 500 | 15 |
| Cabbage | Diamond back moth | 75 | 93.75 | 500 | 15 |
| Chilli | Thrips | 40 – 50 | 50 – 62.5 | 500 | 5 |
| Cotton | Thrips (<i>Thrips tabaci</i>) | 60 | 75 | 375-500 | 14 |
| Flocoumafen 0.005% Block Bait (Strom) | | | | | |
| Usage | Common pest | a.i. (mg) | Formulat ion (g) | How to apply | Waiting Period |

| | | | | | |
|---|--|----------|-----------|---|----|
| For rodent control in field , storage and crops like rice, soybean and coconut) | <i>Rattus rattus</i> , <i>Bandicota bengalensis</i> , <i>Tatera indica</i> , <i>Mus musculus</i> | 0.75-1.0 | 15-20 | At an interval of 5-10m in bait station or active burrow. Repeat the application after 14 days if problem persists. | NA |
| Flonicamid 50 % WG | | | | | |
| Rice | Brown plant hopper, White backed plant hopper, Green leaf hopper | 75 | 150 | 500 | 36 |
| Cotton | Aphids, Jassids, Thrips & Whiteflies | 75 | 150 | 500 | 25 |
| Okra | Aphids (<i>Aphis gossipy</i>), Jassids (<i>Amrasca bigutulla bigutulla</i>), White fly (<i>Bemisia tabaci</i>) | 100 | 200 | 500 | 10 |
| Brinjal | Aphids (<i>Aphis gossipy</i>), Jassids (<i>Amrasca bigutulla bigutulla</i>), White fly (<i>Bemisia tabaci</i>) | 100 | 200 | 500 | 15 |
| Flubendiamide 20 % WG | | | | | |
| Rice | Stem borer, Leaf folder | 25 | 125 | 500 | 30 |
| Cotton | American bollworm | 50 | 250 | 500 | 30 |
| Pigeon pea (Tur/Arhar) | Pod borer | 50 | 250 | 500 | 30 |
| Cabbage | Diamond back moth | 18.24 | 37.5 – 50 | 375 – 500 | 07 |
| | Diamond back moth | 12.5 | 62.5 | 500 | 07 |
| Tomato | Fruit borer | 48 | 100 | 375 – 500 | 05 |
| | Fruit borer | 50 | 250 | 500 | 05 |
| Tea | Semilooper | 30 | 150 | 400 | 07 |
| Chilli | Fruit borer | 50 – 60 | 250 – 300 | 500 | 05 |
| Soybean | <i>Spodoptera litura</i> , Semilooper | 50 – 60 | 250 – 300 | 500 | 29 |
| Groundnut | <i>Spodoptera litura</i> | 60 | 300 | 500 | 31 |
| Black gram | <i>Spodoptera litura</i> , <i>Maruca</i> spp. | 60 | 300 | 500 | 23 |

| | | | | | |
|-------------------------------------|--|--------------------------------|----------------------------------|-----------|---------|
| Bengal gram | Pod borer | 50 | 250 | 500 | 15 |
| Sugarcane | Early shoot borer | 75 | 375 | 500 – 750 | 20 4 |
| Flubendiamide 39.35 % w/w SC | | | | | |
| Rice | Stem borer, Leaf folder | 24.0 | 50.0 | 375 – 500 | 40 |
| Cotton | Bollworms (American & Spotted bollworm) | 48 – 60 | 100 – 125 | 375 – 500 | 25 |
| Pigeon pea | Pod borer | 48 | 100 | 500 | 10 |
| Black gram | Fruit borer | 48 | 100 | 500 | 11 |
| Chilli | Fruit borer | 48 – 60 | 100 – 125 | 500 | 07 |
| Tomato | Fruit borer | 48 | 100 | 375 – 500 | 05 |
| Cabbage | Diamond moth back | 18.24 | 37.5 – 50 | 375 – 500 | 07 |
| Brinjal | Shoot and fruit borer | 72 – 90 | 150 – 187.5 | 500 | 05 |
| Bengal gram | Pod Borer (<i>Helicoverpa armigera</i> & <i>Spodoptera</i> spp.) | 48 | 100 | 500 | 05 |
| Okra | Shoot & fruit borer | 48 – 60 | 100 – 125 | 500 | 03 |
| Soybean | Defoliators (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i> and Semilooper) | 72 | 150 | 500 | 17 |
| Flubendiamide 00.70 % GR | | | | | |
| Paddy (Rice) | Stem borer | 85 – 100 | 12.14-14.28 | NA | 25 |
| Fluensulfone 2% GR | | | | | |
| Tomato | Root knot nematode (<i>Meloidogyne incognita</i>) | 0.02g/plant & 444 to 512 g/ha | 1.0 g/plant & 22.2 to 25.6 Kg/ha | - | 7 |
| Cucumber | | 0.02 g/plant & 160 to 200 g/ha | 1.0 g/plant & 8.0 to 10 Kg/ha | - | 55 |
| Okra | | 0.02 g/plant & 800 to 910 g/ha | 1.0 g/plant & 40.0 to 45.5 Kg/ha | - | 7 |

| | | | | | |
|---|--|--|--|------------|----|
| Pomegranate | | 0.20g/ dripper & 0.80 g/ plant | 10.0 g/ dripper & 40.0 g/ plant | - | 91 |
| Flufenoxuron 10 % DC | | | | | |
| Rose | Mites | 50 | 500 | 500 –1000 | 06 |
| Flumite 20 % SC / Flufenzine 20 % SC | | | | | |
| Brinjal | Mite | 80 – 100 | 400-500 | 500 – 1000 | 05 |
| Tea | Pink mite, Purplemite | 80 – 100 | 400-500 | 500 – 1000 | 07 |
| | Red spider mite | 100 – 120 | 500-600 | 500 – 1000 | 07 |
| Fluopyram 34.48 % w/w SC | | | | | |
| Tomato | Root knot nematode (<i>Meloidogyne incognita</i>) | 250 (2 application) or 500 (Single application) | 625 (2 application) or 1250 (Single application) | 1000 | 05 |
| Flupyradifurone 17.09 % w/w SL | | | | | |
| Okra (Bhindi) | Jassids, Whitefly | 250 | 1250 | 500 | 03 |
| Tea | Mosquito bug | 150 | 750 | 400-500 | 7 |
| Flupyrimin 2% GR | | | | | |
| Rice | Stem Borer, Brown Plant Hopper | 100-150 | 5000-7500 | NA | 77 |
| Flupyrimin 10 % SC | | | | | |
| Paddy | Brown Plant Hopper (<i>Nilparvata lugens</i>) | 75-100 | 750-1000 | 500 | 7 |
| Fluvalinate 25 % EC | | | | | |
| Cotton | Aphids, Jassids, Redcotton bug | 50 – 100 | 200 -400 | 500 –1000 | 07 |
| | Bollworm | 50 – 100 | 200 -400 | 500 – 1000 | 07 |
| Fluxametamide 10% w/w EC | | | | | |
| Brinjal | Leaf hopper, Thrips, Fruit and Shoot Borer | 40 | 400 | 500 | 5 |
| Cabbage | Diamond Back Moth, Tobacco caterpillar, Semi looper | 40 | 400 | 500 | 5 |

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|-----------------------------------|--|-----------|-----------|--------------|----|
| Chilli | Thrips, Fruit Borer, Tobacco caterpillar | 40 | 400 | 500 | 5 |
| Okra | Leaf hopper, thrips, Fruit borer | 40 | 400 | 500 | 5 |
| Redgram | Spotted pod Borer, Pod Borer | 40 | 400 | 500 | 5 |
| Tomato | Thrips, Fruit borer | 40 | 400 | 500 | 5 |
| Hexythiazox 05.45 % w/w EC | | | | | |
| Tea | Scarlet mite (<i>Brevipalpus phoenicis</i>) Red spider mite (<i>Oligonychus coffeae</i>) | 15-25 | 300 – 500 | 400/ha | 05 |
| Chilli | Yellow mites (<i>Polyphagotarsonemus latus</i>) | 15 – 25 | 300 – 500 | 625/ha | 03 |
| Apple | European Red Mite (<i>Panonychus ulmi</i>) | 0.002% | 0.04% | 10 ltr./tree | 15 |
| Grapes | Red spider mite | 25 | 500 | 1000 | 05 |
| Rose | Red spider mite | 20-25 | 400 – 500 | 500 | 05 |
| Brinjal | Red spider mite | 25 | 500 | 500 | 07 |
| Okra | Red spider mite | 25 | 500 | 500 | 07 |
| Imidacloprid 70 % WG | | | | | |
| Cotton | Jassids, Aphids, Thrips | 21 – 24.5 | 30 – 35 | 375 – 500 | 07 |
| Rice (Paddy) | Brown plant hoppers, White backed plant hoppers | 21 – 24.5 | 30 – 35 | 300 – 375 | 07 |
| Okra (Bhindi) | Jassids, Aphids, Thrips | 21 – 24.5 | 30 – 35 | 300 – 375 | 03 |
| Cucumber | Aphids & Jassids | 24.5 | 35.0 | 500 | 05 |
| Tomato | Thrips & White fly | 35 | 50 | 500 | 05 |
| Potato | Aphids & White fly | 63 | 90 | 500 | 30 |
| Imidacloprid 48 % FS | | | | | |
| Cotton | Aphids, Whitefly, Jassids, Thrips | 300 - 540 | 500 - 900 | - | NR |
| Okra (Bhindi) | Jassid, Aphid | 300 - 540 | 500 - 900 | - | - |
| Sunflower | Jassid, Whitefly | 300 - 540 | 500 - 900 | - | - |

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|--|--|--------------|-------------|-----------|----|
| Sorghum | Shoot fly | 720 | 1200 | - | - |
| Pearl millet | Shoot fly and termites | 720 | 1200 | - | - |
| Soybean | Jassids | 75 | 125 | - | - |
| Maize | Shoot fly | 0.6 | 1.0 | - | - |
| Potato | Aphid & Jassids | 0.0105 | 0.0175 | - | - |
| Rice | Thrips | 0.15 | 0.25 | - | - |
| Wheat | Aphids, Termite | 0.21 | 0.35 | - | - |
| Imidacloprid 70 % WS | | | | | |
| Cotton | Aphids, Whitefly, Jassids, Thrips | 350 - 700 | 500 - 1000 | - | NR |
| Okra (Bhindi) | Jassid, Aphid | 350 - 700 | 500 - 1000 | - | - |
| Chilli | Jassid, Aphid, Thrips | 700 - 1050 | 1000 - 1500 | - | - |
| Sunflower | Jassid, Whitefly | 490 | 700 | - | - |
| Sugarcane | Termite | 70 - 105 | 100 - 150 | - | - |
| Sorghum | Shoot fly | 700 | 1000 | - | - |
| Pearl millet | Termites and shootfly | 700 | 1000 | - | - |
| Mustard | Mustard sawfly, Painted bug | 490 | 700 | - | - |
| Imidacloprid 30.50 % m/m SC | | | | | |
| Cotton | Aphid, Jassids, Thrips | 21 - 26.25 | 60 - 75 | 500 - 750 | 26 |
| Rice (Paddy) | Brown plant hopper, White backed plant hopper | 21 - 26.25 | 60 - 75 | 500 - 750 | 37 |
| Chilli | Aphids, Thrips | 43.75 – 52.5 | 125 - 150 | 500 | 5 |
| For non- agricultural use:- For protecting building from termite attack at pre and post construction stages, apply Imidacloprid 30.5% m/m SC @ 0.075% a.i. concentration. | | | | | |
| Imidacloprid 17.80 % SL | | | | | |
| Cotton | Aphid, Whitefly, Jassid, Thrips | 20 - 25 | 100 - 125 | 500 - 700 | 40 |
| Paddy (Rice) | Brown plant hopper, White backed plant hopper, Green leaf hopper | 20 - 25 | 100 - 125 | 500 - 700 | 40 |

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|-----------------------------------|--|-----------------|------------|---|----|
| Chilli | Jassid, Aphid, Thrips | 25 - 50 | 125 - 250 | 500 - 700 | 40 |
| Sugarcane | Termite | 70 | 350 | 1875 | 45 |
| Mango | Hopper | 0.40-0.80g/tree | 2-4ml/tree | 10 litre | 45 |
| Sunflower | Whitefly, Jassid, Thrips, | 20 | 100 | 500 | 30 |
| Okra (Bhindi) | Aphid, Jassid, Thrips | 20 | 100 | 500 | 03 |
| Citrus | Leaf miner, Psylla | 10 | 50 | Depending on size of tree & Protection equipment used | 15 |
| Groundnut | Aphid , Jassid | 20 - 25 | 100 - 125 | 500 | 40 |
| Tomato | Whitefly | 30 - 35 | 150 - 175 | 500 | 03 |
| Grapes | Flea beetle | 0.06 - 0.08 | 300 - 400 | 1000 | 32 |
| Imidacloprid 00.30 % GR | | | | | |
| Paddy(Rice) | Stem borer | 0.045 | 15.0 kg | - | 26 |
| Imidacloprid 17.1 % w/w SL | | | | | |
| Cotton | Aphid, Whitefly, Jassids, Thrips | 50 | 250 | 500 | 50 |
| Rice | Brown Plant Hopper, White Backed Plant Hopper and Green Leaf Hopper | 60 | 300 | 500 | 39 |
| Indoxacarb 14.50 % SC | | | | | |
| Cotton | Bollworm | 75 | 500.0 | 600 - 1000 | 16 |
| Cabbage | Diamond back moth | 30 - 40 | 200 - 266 | 400 - 750 | 07 |
| Chilli | Fruit borer | 50-60 | 333 - 400 | 300 - 600 | 05 |
| Tomato | Fruit borer | 60-75 | 400 - 500 | 300 - 600 | 05 |
| Pigeon pea | Pod borer complex | 50-60 | 333 - 400 | 500 - 1000 | 15 |
| Rice | Yellow Stem Borer (<i>Scirpophaga incertulas</i>), Leaf Folder (<i>Cnaphalocrosis medinalis</i>) | 30-50 | 200-333 | 500 | 37 |

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|---|--|-------|---------|------------|----|
| Soybean | Tobacco caterpillar (<i>Spodoptera litura</i>) | 50 | 333 | 500 | 36 |
| Chickpea | Pod Borer (<i>H. armigera</i>) | 60-75 | 400-500 | 500 | 19 |
| Indoxacarb 15.80 % EC | | | | | |
| Cotton | Bollworms (<i>Helicoverpa armigera</i>) | 75 | 500 | 500 – 1000 | 14 |
| Cabbage | Diamond back moth(<i>Plutella xylostella</i>) | 40 | 266 | 500 – 1000 | 05 |
| Pigeon pea | Pod borer complex(<i>Helicoverpa armigera</i>), Pod fly | 50 | 333 | 500 – 700 | 12 |
| Rice | Leaf folder (<i>Cnephalocrosis medinalis</i>), Green Semilooper, Stem fly | 30 | 200 | 500 | 14 |
| Soybean | Tobacco caterpillar (<i>Spodoptera litura</i>), Pod borer (<i>Heliothis armigera</i>), Green Semilooper (<i>Chrysodexis acuta</i>), stem fly (<i>Melanogromyza spp.</i>) | 30 | 333 | 500 | 31 |
| Chickpea | Pod borer (<i>Helicoverpa armigera</i>) | 50 | 333 | 500 | 18 |
| Isocycloseram 9.2% W/W Dc (10% W/V) DC | | | | | |
| Brinjal | Jassids and Red Spider mite | 20 | 200 | 500 | 5 |
| | Shoot and Fruit Borer | 60 | 600 | | |
| Cabbage | Leaf Feeder, DBM | 20-30 | 200-300 | 500 | 10 |
| Chilli | Yellow Mites | 20 | 200 | 500 | 7 |
| | Thrips and Fruit borer | 60 | 600 | | |
| Cotton | Jassids | 20 | 200 | 500 | 37 |
| | Thrips and Ball worm | 60 | 600 | | |
| Red Gram | Gram Pod Borer and Spotted Pod borer | 50-60 | 500-600 | 500 | 58 |
| Groundnut | Leaf miner, Leaf feeder, thrips and Jassids | 50-60 | 500-600 | 500 | 48 |
| Soybean | Leaf worm, semi-looper, Gridle Beetle, Stem fly | 60 | 600 | 500 | 35 |
| Isocycloseram 18.1% W/W SC (20 % W/V SC) | | | | | |

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|--------------------------------------|---|---------|------------|------------------------------------|----|
| Rice | Leaf Folder | 20 | 100 | 500 | 29 |
| | Stem Borer | 60 | 300 | | |
| Maize | Fall Armyworm, Stem Borer | 60 | 300 | 500 | 48 |
| Lambda-cyhalothrin 04.90 % CS | | | | | |
| Cotton | Bollworms | 25 | 500 | 500 | 21 |
| Paddy (Rice) | Stem borer, Leaf folder | 12.50 | 250 | 500 | 15 |
| Brinjal | Shoot & fruit borer | 15 | 300 | 500 | 05 |
| Okra (Bhindi) | Fruit borer | 15 | 300 | 500 | 05 |
| Tomato | Fruit borer | 15 | 300 | 500 | 05 |
| Grapes | Thrips & Flea beetle | 12.50 | 250 | 500 – 1000 | 07 |
| Chilli | Thrips, Pod borer | 25 | 500 | 500 | 05 |
| Soybean | Stem fly, Semilooper | 15 | 300 | 500 | 31 |
| Pomegranate | Thrips & fruit borer | 0.002 | 0.04 | 500-1000/ as per age of tree | 5 |
| Cardamom | Shoot and Capsule Borer and Thrips | 20 | 400 | 1000 | 34 |
| Lambda-cyhalothrin 02.50 % EC | | | | | |
| Cotton | Bollworms, Jassids, Thrips | 15 – 25 | 600 – 1000 | 400 – 600 | 21 |
| Rice (Paddy) | Leaf folder, Stem borer, Green leaf hopper, Gall midge, Hispa, Thrips | 12.50 | 500 | 400 – 600 | 15 |
| Lambda-cyhalothrin 05 % EC | | | | | |
| Cotton | Bollworms, Jassids, Thrips | 15 – 25 | 300 – 500 | 400 – 600 | 21 |
| Rice (Paddy) | Leaf folder, Stem borer, Green leaf hopper, Gall Midge, Rice 36igut, Thrips | 12.50 | 250 | 400 -600 | 15 |
| Brinjal | Shoot & fruit borer | 15 | 300 | 400 – 600 | 04 |
| Tomato | Fruit borer | 15 | 300 | 400 – 600 | 04 |
| Chilli | Thrips , mite, podborer | 15 | 300 | 400 – 600 | 05 |

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|---|---------------------------------|---------------|----------------------|------------|----|
| Pigeon pea | Pod borer, Pod fly | 20 – 25 | 400-500 | 400 – 600 | 15 |
| Onion | Thrips | 15 | 300 | 300 – 400 | 05 |
| Bhindi (Okra) | Jassids , Shoot borer | 15 | 300 | 300 – 400 | 04 |
| Chickpea | Pod borer | 25 | 500 | 300 – 400 | 06 |
| Groundnut | Thrips, Leaf hopper, Leaf miner | 10 – 15 | 200 – 300 | 400 – 500 | 10 |
| Mango | Hoppers | 0.0025-0.005% | 0.5-1.0 ml/lof water | - | 07 |
| Lufenuron 05.40 % EC | | | | | |
| Cabbage | Diamond back moth | 30 | 600 | 500 | 14 |
| Cauliflower | Diamond back moth | 30 | 600 | 500 | 05 |
| Pigeon pea | Pod borer, Pod fly | 30 | 600 | 500 – 1000 | 65 |
| Cotton | American bollworm | 30 | 600 | 500 – 750 | 48 |
| Black gram | Pod borer | 30 | 600 | 500 | 10 |
| Chilli | Fruit borer | 30 | 600 | 500 | 05 |
| Magnesium Phosphide Degesch plates recommended for fumigation of un-manufactured tobacco forexport, as per importing country requirement. | | | | | |
| Malathion 05 % DP | | | | | |
| Paddy (Rice) | Rice Hispa | 1250 | 25000 | - | - |
| Malathion 50.00% EC | | | | | |
| Paddy (Rice) | Rice Hispa | 575 | 1150 | 500-1000 | - |
| Cabbage | Mustard aphid | 750 | 1500 | 500 – 1000 | - |
| Metaflumizone 22 % SC | | | | | |
| Cabbage | Diamond back moth | 165 – 220 | 750 – 1000 | 500 | 03 |
| Metaldehyde 2.5% DP | | | | | |

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|---|---|-------------------------------------|--|----------------------------------|---------------------------------------|
| Citrus, Rubber, Paddy (Rice), Tea, Vegetables | Snails, Slugs, Giant,African snails | Available in ready to use 2.5% Dust | | | |
| Methoxyfenozide 21.8 % w/w SC | | | | | |
| Groundnut | Leaf eating caterpillar (<i>Spodopotera litura</i>) | 210 | 875 | 500 | 26 |
| | Groundnut leaf minor (<i>Aproaerema modicella</i>) | 210 | 875 | 500 | |
| | Pod borer (<i>Helicoverpaarmigera</i>) | 210 | 875 | 500 | |
| Sugarcane | Early shoot borer (<i>Chilo infuscatellus</i>) | 120-150 | 500-625 (depending upon stage of crop) | 500 | 161 |
| Methyl Bromide 98 % w/w | | | | | |
| Stored Whole Cereals and Seed,Millet, Pulses | Rice Weevil, LesserGrain Bore, KhapraBeetle, Rust Red Flour Beetle, Saw Drug Store Beetle | Air tight cover | 24 gm/m3 | 6-8 hours waiting Period 24 hrs. | As when residues not to exceed 25 ppm |
| Milled Products:Flour | Khapra Beetle, RustRed Flour Beetle, Lesser grain borer | Air tight cover | 24 -32 gm/m3 | 12-24 hrs waiting Period 72 hrs | As when residues not to exceed 25 ppm |
| Dry Fruits, Nuts Spices & Oil Seeds | Rust Red FlourBeetle | Air tight cover | 24 -32 gm/m3 | 24 hrs waiting Period 72 hrs | As when residues not to exceed 25 ppm |
| Milbemectin 01 % EC | | | | | |
| Rose | Two spotted, Spidermite | 04.50 | 450 | 1000 | 05 |
| Chilli | Yellow , White mite | 03.25 | 325 | 500 | 07 |
| Monocrotophos 15 % SG | | | | | |
| Cotton | Aphids, Jassids, Thrips, Whiteflies | 200 | 1333 | 500 – 1000 | 58 |

| Monocrotophos 36 % SL (S.O. 4294(E) date 29th Sept, 2023) | | | | | |
|---|---------------------------------------|-----------|-------------|------------|---|
| Paddy (Rice) | Brown plant hopper, Yellow stem borer | 500 | 1250 | 500 – 1000 | - |
| | Green leaf hopper, Leaf roller/folder | 250 | 625 | 500 – 1000 | - |
| Maize | Shoot fly | 250 | 625 | 500 – 1000 | - |
| Black gram | Pod borer | 250 | 625 | 500 – 1000 | - |
| Green gram | Pod borer | 175 | 437 | 500 – 1000 | - |
| Pea | Leaf minor | 400 | 1000 | 500 – 1000 | - |
| Red gram | Plume mouth, Podfly | 250 | 625 | 500 – 1000 | - |
| | Pod borer | 500 | 1250 | 500 – 1000 | - |
| Sugarcane | Shoot borer | 600-800 | 1500-2250 | 500 – 1000 | - |
| | Mealy bug | 600.0 | 1500 | 500 – 1000 | - |
| | Pyrilla | 200 | 500 | 500 – 1000 | - |
| | Scale Insect | 600 | 1500 | 500 – 1000 | - |
| | Stalk borer | 750 | 1875 | 500 – 1000 | - |
| Cotton | Bollworms | 450 – 800 | 1125 - 2250 | 500 – 1000 | - |
| | Aphid, Leaf Hopper, Thrips | 175 | 437 | 500 – 1000 | - |
| | Grey weevil | 500 | 1250 | 500 – 1000 | - |
| | White fly | 150 | 375 | 500 – 1000 | - |

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|----------------------------------|--|-------------------------|-------------------------|--|---------------|
| Citrus | Black aphids | 0.040% | 1500 – 2000 | 500 – 2000 | 10 lit./trees |
| | Mite | 0.025% | 937 – 1250 | 500 – 2000 | 10 lit./trees |
| Mango | Bug mite | 0.040% | 1500 – 2000 | 500 – 2000 | 10 lit./trees |
| | Gall maker, Hopper, Mealy bug, Shoot borer | 0.04% | 1500 – 2000 | 500 – 2000 | 20 lit./trees |
| Coconut | Black headed Caterpillar | 03.50-07.00 gm per tree | 08.75-17.50 ml per tree | Lower dose to be applied on plants below 09 years & higher or more than 09 years of age. | - |
| Coffee | Green bug | 625 | 1562 | 500 – 1000 | - |
| Cardamom | Thrips | 375 | 937 | 500 – 1000 | - |
| Novaluron 10 % EC | | | | | |
| Cotton | American Bollworm | 100 | 1000 | 500 – 1000 | 40 |
| Cabbage | Diamond back moth | 75 | 750 | 500 – 1000 | 05 |
| Tomato | Fruit borer | 75 | 750 | 500 – 1000 | 1-3 |
| Chilli | Fruit borer, Tobacco Caterpillar | 33.50 | 375 | 500 | 03 |
| Bengal gram | Pod borer | 75 | 750 | 500 | 07 |
| Novaluron 8.8 w/w % SC | | | | | |
| Cotton | American boll worm (<i>Helicoverpa armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>) | 100 | 1000 | 500 -1000 | 20 |
| Oxydemeton-methyl 25 % EC | | | | | |

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|---------------------------|----------------------------|--------|------------|-------------|---|
| Paddy (Rice) | Blue leaf hopper | 125 | 500 | 500 – 1000 | - |
| | White leaf hopper | 250 | 1000 | 500 – 1000 | - |
| Maize | Shoot fly | 250 | 1000 | 500 – 1000 | - |
| Sorghum | Shoot fly | 250 | 1000 | 500 – 1000 | - |
| Cotton | Aphid, Jassid (leafhopper) | 300 | 1200 | 500 – 1000 | - |
| Ground nut | Aphid, Leaf minor | 250 | 1000 | 500 – 1000 | - |
| Mustard | Aphid | 250 | 1000 | 500 – 1000 | - |
| Sesamum | Leaf hopper | 300 | 1200 | 500 – 1000 | - |
| Bhindi (Okra) | White fly | 250 | 1000 | 500 – 1000 | - |
| | Jassid, Leaf beetle | 400 | 1600 | 500 – 1000 | - |
| Chilli | Aphid | 400 | 1600 | 500 – 1000 | - |
| | Mites | 500 | 2000 | 500 – 1000 | - |
| | Thrips | 250 | 1000 | 500 – 1000 | - |
| Onion | Thrips | 300 | 1200 | 500 – 1000 | - |
| Tomato | White fly | 250 | 1000 | 500 – 1000 | - |
| Potato | Aphids | 250 | 1000 | 500 – 1000 | - |
| Apple | Sanjose scale | 0.07% | 4200- 5600 | 1500 – 2000 | - |
| | Wooly Aphid | 0.025% | 1500-2000 | 1500- 2000 | - |
| Banana | Tingid bug | 0.025% | 1500-2000 | 1500- 2000 | - |
| | Aphids | 0.05% | 3000-4000 | 1500- 2000 | - |
| Mango | Hoppers | 0.025% | 1500-2000 | 1500- 2000 | - |
| Peaches | Leaf curl aphids | 0.025% | 1500-2000 | 1500- 2000 | - |
| Coffee | Green bug | 625 | 2500 | 500-1000 | - |
| | Leaf minor | 1000 | 4000 | 500-1000 | - |
| Tobacco | White fly, Aphids | 250 | 1000 | 500-1000 | - |
| Permethrin 25 % EC | | | | | |

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|---------------------------|--|------------|-------------|------------|------------------------------|
| Cotton | Bollworms | 100 – 125 | 400 – 500 | 500 – 1000 | - |
| Phenthoate 02 % DP | | | | | |
| Sorghum | Red spider mite, Pinkmite, Purple mite, Scarlet mite | 400 | 20000 | - | 90 % Emergence of earhead |
| Safflower | Aphid | 400 | 20000 | - | - |
| Phenthoate 50 % EC | | | | | |
| Paddy (Rice) | Rice case worm | 500 | 1000 | 500 -1000 | - |
| Ground nut | Leaf Webber | 500 | 1000 | 500 -1000 | - |
| Phosalone 35 % EC | | | | | |
| Barely | Aphid | 500 | 1428 | 500 – 1000 | - |
| Sorghum | Ear head midge | 400 | 1143 | 500 – 1000 | - |
| Jute | Red spider mite | 350 | 1000 | 500 – 1000 | - |
| Brinjal | Fruit borer | 500 | 1428 | 500 – 1000 | - |
| Cabbage | Aphid | 500 | 1428 | 500 – 1000 | - |
| Tomato | Fruit borer | 450 | 1285 | 500 – 1000 | - |
| Tea | Aphid, Pink mite, Purple mite | 360 | 1028 | 500 – 1000 | - |
| Phosalone 04 % DP | | | | | |
| Sorghum | Earhead midge | 1000 | 25000 | - | - |
| Phosmet 50% WP | | | | | |
| Chilli | Aphids, Thrips & Fruit borer | 500 | 1000 | 500 | 10 |
| Rice | Yellow stem borer & Leaf folder | 600 | 1200 | 500 | 45 |
| Cotton | Jassid, Aphids, Whitefly & Bollworms | 600 | 1200 | 500 | 47 |
| Profenofos 50 % EC | | | | | |
| Cotton | Bollworm | 750 – 1000 | 1500 – 2000 | 500 – 1000 | 15 |

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|------------------------------|--|---------------|--------------|-------------|----|
| | Jassids, Aphids, Thrips, Whiteflies | 500 | 1000 | 500 – 1000 | 15 |
| Soybean | Semi looper & Girdle beetle | 500 | 1000 | 500 | 40 |
| Propargite 57 % EC | | | | | |
| Tea | Red spider mite, Pinkmite, Purple mite, Scarlet mite | 430-612 | 750-1250 | 400 | 07 |
| Chilli | Mite | 850 | 1500 | 500 – 625 | 07 |
| Apple | European red mite, Two spotted mite | 2.85-5.7/tree | 5-10 ml/tree | 10 lit/tree | 09 |
| Brinjal | Two spotted spidermite | 570 | 1000 | 400 | 06 |
| Pymetrozine 50 % WG | | | | | |
| Paddy (Rice) | Brown plant hopper | 150 | 300 | 500 | 19 |
| Mango | Hoppers | 150 | 300 | 1000 | 36 |
| Pyriproxyfen 10 % EC | | | | | |
| Cotton | White fly (<i>Bemisia tabaci</i>) | 100 | 375-500 | 500 | 30 |
| Pyriproxyfen 10% EW | | | | | |
| Brinjal | White fly & Jassids | 50 | 500 | 300 | 07 |
| Cotton | Whitefly | 100 | 1000 | 500 | 31 |
| Cotton | Whitefly | 50-60 | 500-700 | 500 | 50 |
| Chilli | Whitefly, Aphids | 50 | 500 | 300 | 07 |
| Okra | White fly & Jassids | 50 | 500 | 300 | 07 |
| Pyridaben 20 % w/w WP | | | | | |
| Cotton | Whitefly (<i>Bemisia tabaci</i>), Jassid (<i>Amrasca 43iguttula</i>) and thrips (<i>Thrips tabaci</i>) | 100-125 | 1000-2500 | 500 | 38 |
| Pyridaben 20 % w/w WP | | | | | |
| Tea | Red spider mite | 100 | 500 | 500 | 07 |

| | | | | | |
|---------------------------------|--|-----------|-------------|-------------------------|----|
| Cotton | White fly | 100 | 500 | 500 | 28 |
| Chilli | Yellow mite | 75 – 100 | 375 – 500 | 500 | 5 |
| Brinjal | Red Spider Mite | 100 | 500 | 500 | 3 |
| Apple | European Red Mite | 1 | 5 | 10 litre water/ tree | 5 |
| Pyridalyl 10 % EC | | | | | |
| Cotton | Bollworms | 75 – 100 | 750 – 1000 | 500 – 750 | 07 |
| Okra | Fruit & shoot borer | 50 – 75 | 500 – 750 | 500 – 750 | 03 |
| Cabbage | Diamond back moth | 50 – 75 | 500 – 750 | 500 – 750 | 03 |
| Quinalphos 25 % Gel | | | | | |
| Chilli | Aphid | 250 | 1000 | 500 – 1000 | - |
| Paddy (Rice) | Brown plant hopper, Leaf folder, Stem borer, Hispa | 250 | 1000 | 500 – 1000 | - |
| Quinalphos 05 % Granules | | | | | |
| Paddy (Rice) | Gall midge, Stem borer | 250 | 5000 | - | - |
| Quinalphos 20 % AF | | | | | |
| Rice (Paddy) | Brown plant hopper, Green leaf hopper, Leaf folder, Stem borer | 250 – 300 | 1250 – 1500 | 750 – 1000 | 40 |
| Okra (Bhindi) | Shoot /Fruit borer | 250 – 300 | 1250 – 1500 | 750 – 1000 | 07 |
| Cotton | American bollworm, Pink Bollworm, Spotted bollworm | 350 – 500 | 1750 – 2500 | 750 – 1000 | 07 |
| Tomato | Fruit borer | 300 – 350 | 1500 – 1750 | 750 – 1000 | 07 |
| Tea | Hopper caterpillar | 0.05% | 1000 | 400 | 07 |
| Pigeon pea | Pod borer | 500. | 2500 | 750 – 1000 | 30 |
| Groundnut | Spodoptera | 250 – 375 | 1250 – 1775 | 750 – 1000 | 30 |
| Quinalphos 25 % EC | | | | | |
| Paddy (Rice) | Brown plant hopper | 375 | 1500 | 500 – | 40 |

| | | | | | |
|---------------|---------------------------|-------|-------------|------------|----|
| | | | | 1000 | |
| | Hispa/blue beetle | 500 | 2000 | 500 – 1000 | 40 |
| | Leaf folder | 250 | 1000 | 500 – 1000 | 40 |
| | Stem borer | 325 | 1300 | 500 – 1000 | 40 |
| Wheat | Aphid | 250 | 1000 | 500 – 1000 | - |
| | Ear head Caterpillar,Mite | 400 | 1600 | 500 – 1000 | - |
| Bengal gram | Pod borer | 250 | 1000 | 500 – 1000 | - |
| Black gram | Bihar hairy caterpillar | 375 | 1500 | 500 – 1000 | - |
| French bean | Stem fly | 250 | 1000 | 500 – 1000 | - |
| Red gram | Pod borer, Pod fly | 350 | 1400 | 500 – 1000 | 30 |
| Soybean | Leaf weevil | 250 | 1000 | 500 – 1000 | - |
| Groundnut | Leaf Hopper, Thrips | 350 | 1400 | 500 – 1000 | 30 |
| | Leaf miner | 250 | 1000 | 500 – 1000 | 30 |
| Mustard | Sawfly | 300 | 1200 | 500 – 1000 | - |
| Sesamum | Leaf Webber, Jassids | 500 | 2000 | 500 – 1000 | - |
| Bhindi (Okra) | Fruit borer | 200 | 800 | 500-1000 | - |
| | Leaf hopper, Mite | 250 | 1000 | 500-1000 | - |
| Cauliflower | Stem borer | 500 | 2000 | 500 – 1000 | - |
| Chilli | Aphid | 250 | 1000 | 500 – 1000 | - |
| | Mite | 375 | 1500 | 500 – 1000 | - |
| Tomato | Fruit borer | 250 | 1000 | 500 – 1000 | - |
| Apple | Wooly Aphid | 0.05% | 3000 – 4000 | 500 – 1000 | - |
| Banana | Tingid bug | 0.05% | 3000 – 4000 | 500 – 1000 | - |
| Citrus | Scale | 0.07% | 4200 – 5600 | 500 – 1000 | - |

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|-----------------------|--|--------|-------------|-------------------------------|----|
| | Citrus butterfly | 0.025% | 1500 – 2000 | 500 – 1000 | - |
| Pomegranate | Scales | 0.08% | 4800 – 6400 | 500 – 1000 | - |
| Tea | Thrips | 190 | 760 | 500 – 1000 | 07 |
| Quinalphos 01.50 % DP | | | | | |
| Paddy (Rice) | Brown plant hopper | 300 | 20000 | - | 40 |
| Gram | Pod borer | 350 | 23300 | At pod formation | |
| Red gram | Pod borer | 350 | 23300 | - | 30 |
| Soybean | Leaf weevil | 250 | 16600 | - | - |
| French bean | Stem fly | 30 | 20000 | - | - |
| Cotton | Aphid, Jassids,Thrips | 300 | 20000 | From square formation onwards | |
| | Bollworms | 450 | 30000 | From square formation onwards | |
| Ground nut | Thrips, Jassids | 350 | 23300 | - | 30 |
| | Red hairy caterpillar | 375 | 25000 | - | 30 |
| Safflower | Aphid | 300 | 20000 | - | - |
| Chilli | Aphid | 300 | 20000 | - | - |
| Spinetoram 11.70 % SC | | | | | |
| Cotton | Thrips | 50 | 420 | 500 – 1000 | 30 |
| | Tobacco caterpillar | 50-56 | 420 – 470 | 500 – 1000 | |
| | Spotted boll worm | | | 500 – 1000 | |
| | Pink boll worm | 54 | 450 | 500-1000 | |
| Soybean | Tobacco caterpillar | 54 | 450 | 500 – 625 | 30 |
| Chilli | Thrips, Fruit borer,Tobacco caterpillar | 56-60 | 470-500 | 400 – 500 | 07 |
| Okra | Fruit borer (<i>Helicoverpa armigera</i>), Shoot and Fruit borer (<i>Earias 46iguttul</i>) | 45-54 | 375-450 | 500-1000 | 3 |

| | | | | | |
|--------------------------------|--|---------------|-----------|------------|----|
| Brinjal | Shoot and Fruit borer | 45-54 | 375-450 | 500-1000 | 3 |
| Chickpea | Pod Borer (<i>Helicoverpa armigera</i>) | 45-54 | 375-450 | 500-1000 | 20 |
| Red gram | Pod Borer (<i>Helicoverpa armigera</i> , <i>Maruca vitrata</i>) | 45-54 | 375-450 | 500-1000 | 23 |
| Grapes | Thrips (<i>Scirtothrips dorsalis</i>) | 36 | 300 | 500-1000 | 5 |
| Rice | Yellow Stem Borer (<i>Scirpophaga incertulas</i>), | 42-45 | 350-375 | 500 | 20 |
| | Leaf Folder (<i>Cnaphalocrosis medinalis</i>) | 30 | 250 | 500 | |
| Tomato | Fruit borer (<i>Helicoverpa armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>), Leaf miner (<i>Liriomyza trifolii</i>), tomato pinworm (<i>Tuta absoluta</i>) | 45-54 | 375-450 | 500 | 3 |
| Maize | Fall Armyworm (<i>Spodoptera frugiperda</i>) | 30 | 250 | 500 | 32 |
| Spinosad 45 % SC | | | | | |
| Cotton | American bollworm | 75-100 | 165-220 | 500 | 10 |
| Chilli | Fruit borer, Thrips | 73 | 160 | 500 | 03 |
| Chilli | Fruit borer (<i>H.armigera</i>) (<i>Scirtothrips dorsalis</i>) | 56-73 | 124-162 | 500 | 03 |
| Red gram | Pod borer | 56 – 73 | 125 – 162 | 800 – 1000 | 47 |
| Brinjal | Fruit & Shoot borer | 73 – 84 | 162 – 187 | 500 | 03 |
| Grapes | Thrips | 25 ml/100 lit | 250 | 1000 | 15 |
| Spinosad 02.50 % SC | | | | | |
| Cabbage & Cauliflower | Diamond back moth | 15 – 17.50 | 600 – 700 | 500 | 03 |
| Spiromesifen 22.90 % SC | | | | | |
| Brinjal | Red spider mite | 96 | 400 | 500 | 05 |

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|-------------------------------------|--|----------------------|-------------------------|------------|----|
| Cotton | White fly & mite | 144 | 600 | 500 | 10 |
| Apple | European Red Mite & Red spider mite | 72 (0.03%) | 300 | 1000 | 30 |
| Chilli | Chilli Yellow Mite | 96 | 400 | 500 – 750 | 07 |
| Tea | Red spider mite | 96 | 400 | 400 | 07 |
| Okra (Bhindi) | Red spider mite | 96 – 120 | 400 – 500 | 500 | 03 |
| Tomato | Whiteflies & Mites | 150 | 625 | 500 | 03 |
| Cotton | White fly & mite | 144 | 600 | 500 | 10 |
| Spirotetramat 15.31 % w/w OD | | | | | |
| Chilli | Thrips & Aphids | 60 | 400 | 500 | 05 |
| Okra | Aphid, Whitefly, Mites | 90 | 600 | 500 | 03 |
| Grapes | Mealy bug, Mites | 105 | 700 | 500 – 1000 | 60 |
| Cotton | Aphids, Whiteflies and Thrips | 105 | 700 | 500 | 52 |
| Citrus | Psylla and Mites | 0.90/10 Lit water | 6 ml/10 litres water | 500 | 30 |
| Tetraniliprole 18.18 SC | | | | | |
| Rice | Yellow stem borer (<i>Scripophaga 48iguttula</i> 48) Leaf folder (<i>Cnaphalocrocis medinalis</i>) | 50 – 60 | 250 – 300 | 500 | 43 |
| Soybean | Girdle beetle (<i>Oberea brevis</i>) <i>Spodoptera spp.</i> Semilooper (<i>Chrysodeixis acuta</i>) | 50 – 60 | 250 – 300 | 500 | 35 |
| Tetraniliprole 40.34% FS | | | | | |
| Rice | Stem borer and leaf folder | 4.8-6.0 | 10.0-12.5 | NA | NA |
| Maize | Stem borer | 2.4-3.6 | 5.0-7.5 | NA | NA |
| Thiacloprid 21.70 % SC | | | | | |
| Cotton | Aphid, Thrips, Jassid | 24 – 30 | 100 – 125 | 500 | 52 |

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|---|--|-------------|-------------|------------------------------|----|
| | Whitefly | 120-144 | 500 – 600 | 500 | 52 |
| Paddy (Rice) | Stem borer | 120 | 500 | 500 | 30 |
| Chilli | Thrips | 54 – 72 | 225 – 300 | 500 | 05 |
| Tea | Mosquito bug | 90 | 375 | 400 | 07 |
| Brinjal | Shoot & fruit borer | 180 | 750 | 500 | 05 |
| Soybean | Girdle beetle | 180 | 750 | 500 | 17 |
| Apple | Thrips | 0.01-0.012% | 0.04-0.05% | As persize of tree | 30 |
| Thiocyclam Hydrogen Oxalate 50% SP | | | | | |
| Rice | Stem borer, Leaf folder | 500 | 1000 | 500 | 30 |
| Thiodicarb 75 % WP | | | | | |
| Cabbage | Diamond back moth | 750 – 1000 | 1000 – 1330 | 500 | 07 |
| Cotton | Bollworms | 750 | 1000 | 500 | 30 |
| Brinjal | Shoot & Fruit borer | 470 – 750 | 625 – 1000 | 500 | 06 |
| Chilli | Fruit borer | 470 – 750 | 626 – 1000 | 500 | 06 |
| Black gram | Pod borer (<i>Maruca</i> spp.) & (<i>Helicoverpa</i> spp.) | 468 – 562 | 625 – 750 | 375 – 500 | 17 |
| Pigeon Pea | Pod Borer | 470 – 750 | 625 – 1000 | 500 | 30 |
| Thiamethoxam 30 % FS | | | | | |
| Cotton | Aphid, whiteflies, Jassids | 03 | 10 | This is used as seed dresser | |
| Sorghum | Shoot fly | 03 | 10 | This is used as seed dresser | |
| Wheat | Termites | 01 | 3.3 | This is used as seed dresser | |
| Soybean | Shoot fly | 03 | 10 | This is used as seed dresser | |

| | | | | | |
|--------------------------|---------------------------------------|------|-----|---|---------|
| Chilli | Thrips | 02.1 | 7.0 | This is used as seed dresser | |
| Okra (Bhindi) | Jassids | 01.7 | 5.7 | This is used as seed dresser | |
| Maize | Stem Fly | 02.4 | 8 | This is used as seed dresser | |
| Sunflower | Jassids, Thrips | 03 | 10 | This is used as seed dresser | |
| Thiamethoxam 70 % WS | | | | | |
| Cotton | Aphid, Thrips, Whitefly, Jassids | 300 | 430 | Use as seed dresser at the time of sowing | |
| Okra (Bhindi) | Aphids, Jassids | 200 | 286 | Use as seed dresser at the time of sowing | |
| Tomato | Aphids, Thrips | 420 | 600 | Use as seed dresser at the time of sowing | |
| Sunflower | Jassids, Thrips | 280 | 400 | Use as seed dresser at the time of sowing | |
| Wheat | Termite, Aphids | 121 | 175 | Use as seed dresser at the time of sowing | |
| Maize | Shoot fly, Aphids | 245 | 350 | Use as seed dresser at the time of sowing | |
| Rice (Paddy) | Thrips, Green leafhopper | 105 | 150 | Use as seed dresser at the time of sowing | |
| Thiamethoxam 75 % w/w SG | | | | | |
| Groundnut | Termite | 94 | 125 | 500 – 1000 | 57 |
| Sugarcane | Termite, Early shootborer | 120 | 160 | 500 – 1000 | 230 |
| Rice (Paddy) | Green leaf hopper, Brown plant hopper | 113 | 150 | Dissolve in500 ml water and mix with 20 kg sand/ha. | 60 |
| Cotton | Jassids & Thrips | 94 | 125 | 50 – 100 ml/plant | 10 9 |
| Thiamethoxam 25 % WG | | | | | |

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|----------------------------------|---|-----------|--------|------------------|----|
| Rice (Paddy) | Stem borer, Gall midge, Leaf folder, White backed plant hopper, Brown planthopper, Green leaf hopper, Thrips | 25 | 100 | 500 – 750 | 14 |
| Cotton | Jassid, Aphid, Thrips | 25 | 100 | 500 – 750 | 21 |
| | Whitefly | 50 | 200 | 500 – 750 | 21 |
| Okra (Bhindi) | Jassid, Aphid, Whitefly | 25 | 100 | 500 – 1000 | 05 |
| Mango | Hoppers | 25 | 100 | 1000 | 30 |
| Wheat | Aphid | 12.5 | 50 | 500 | 21 |
| Mustard | Aphid | 12.5 – 25 | 50-100 | 500 – 1000 | 21 |
| Tomato | Whitefly | 50 | 200 | 500 | 05 |
| Foliar application | (Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 10 – 15 days interval depending on the level of pest intensity) | | | | |
| Brinjal | Whitefly | 50 | 200 | 500 | 03 |
| Foliar application | (Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 15 – 21 days interval depending on the level of pest intensity) | | | | |
| Tea | Mosquito bug | 25 | 100 | 400 – 500 | 07 |
| Potato | Aphids: Foliar Application | 25 | 100 | 500 | 77 |
| | Soil drench | 50 | 200 | 400 – 500 | 77 |
| Citrus | Psylla | 25 | 100 | 1000 | 20 |
| | (Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 15 – 21 days interval depending on the level of pest intensity) | | | | |
| Rice-Nursery (Soil Drenching) | Green leaf hopper, Thrips, Whorl Maggot | 500 | 2000 | 250 ml/sq.mtr | 86 |
| Tomato | White flies | 100 | 400 | 500 | 05 |
| Soil drench | (Apply root zone after transplanting as soil drench once during crop season.) | | | | |
| Cumin | Aphids | 25 | 100 | 500 | 05 |
| Tolfenpyrad 15 % EC | | | | | |
| Cabbage | Diamond back moth, Aphids | 150 | 1000 | 500 | 05 |

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|--|---|-----------------------------------|------|---|----|
| Okra (Bhindi) | Aphids, Jassids,Thrips, Whitefly | 150 | 1000 | 500 | 03 |
| Cotton | Aphids, Jassid s,Thrips, Whitefly | 150 | 1000 | 500 | 26 |
| Cumin | Aphids, Thrips | 150 | 1000 | 500 | 29 |
| Chilli | Aphids, Thrips | 150 | 1000 | 500 | 7 |
| Mango | Hoppers, Thrips | 150.0 | 1000 | 500 | 7 |
| Onion | Thrips | 150.0 | 1000 | 500 | 10 |
| Triflumezopyrim 10% w/w SC | | | | | |
| Paddy | Brown plant hopper & White backed plant hopper | 25 | 236 | 500 | 21 |
| Triflumezopyrim 20% w/w WG | | | | | |
| Rice | Brown Plant Hopper (<i>Nilaparvata lugens</i>), White Backed Plant Hopper (<i>Sogatella furcifera</i>) | 25 | 125 | 500 | 21 |
| Zinc Phosphide 80 % Powder | | | | | |
| Crop | Pest organism | Dosage | | Technical | |
| For rodent control in field and residential premises(to be used under the supervision of trained personal) | <i>Rattus rattus</i> , <i>Bandicota bengalensis</i> , <i>Rattus meltade</i> , <i>Tatera indica</i> , <i>Meriones hurrianae</i> , <i>Mus platythrix</i> , <i>Mus musculus</i> , <i>Rattus norvegicus</i> , <i>Musbooduga</i> , <i>Suncus caeruleus</i> | 1.5-2.5% active ingredient inbait | | Mix 10 g of Zinc phosphide with 10g of edible oil and then mix with 380g of food material. Keep 10g of poisoned bait at each point. | |
| Combination Product | | | | | |
| Acephate 50 % + Bifenthrin 10 % WDG | | | | | |
| Cotton | Leaf hopper, Thrips,Bollworms | 400 + 80. | 800 | 500 – 750 | 20 |
| Acephate 45 % + Cypermethrin 5 % DF | | | | | |
| Cotton | Aphid, Jassids, Thrips& White fly. | 425 | 850 | 500 – 600 | 22 |

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|---|---|-----------|------|-----|-----|
| Acephate 25 % + Fenvalerate 03 % w/w EC | | | | | |
| Cotton | American bollworm, Sucking pest | 500 + 60. | 2000 | 500 | 15 |
| Acephate 50 % + Fipronil 5% WDG | | | | | |
| Paddy | Stem borer, Leaf folder, Brown Plant Hopper | 500 + 50 | 1000 | 500 | 27 |
| Acephate 50 % + Imidacloprid 01.80 % SP | | | | | |
| Cotton | Aphid, Jassids, Thrips, Whitefly, Bollworms | 518 | 1000 | 500 | 40 |
| Paddy (Rice) | Brown Plant Hopper, Green Leaf Hopper, Stem borer & Leaf folder | 518 | 1000 | 500 | -- |
| Sugarcane | Termite, White grubs, Early Shoot borer, Black bug, Pyrilla | 1250 + 45 | 2500 | 500 | 123 |
| Chilli | Jassids (<i>Amrasca biguttula biguttula</i>), Aphid (<i>Aphis gossypii</i>), Whitefly (<i>Bemisia tabaci</i>), Thrips (<i>Scirtothrips dorsalis</i>), Fruit borer (<i>Helicoverpa armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>) | 518 | 1000 | 500 | 03 |
| Acetamiprid 20% + Chlorantraniliprole 20% WG | | | | | |
| Cabbage | Diamond back moth (<i>Plutella xylostella</i>), Tobacco caterpillar (<i>Spodoptera litura</i>) and Aphid (<i>Lipaphis erysimi</i>) | 15+15 | 75 | 500 | 3 |

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|---|---|-----------------|---------|------------|----|
| Tomato | Tomato fruit borer (<i>Helicoverpa armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>), Aphid (<i>Aphis gossypii</i>) Leafhopper (<i>Amrasca biguttula biguttula</i>) and Whitefly (<i>Bemisia tabaci</i>). | 30+30 | 150 | 500 | 7 |
| Acetamiprid 00.40 % + Chlorpyrifos 20 % EC | | | | | |
| Paddy (Rice) | Stem Borer, Brownplant hopper & White backed plant hopper | 10 + 500 | 2.5 | 500 - 800 | 10 |
| Acetamiprid 00.40 % + Chlorpyrifos 20 % EC | | | | | |
| Paddy (Rice) | Stem borer, Brown plant hopper, Whitebacked plant hopper | 10 + 500 | 2.50 | 500 – 800 | 10 |
| Acetamiprid 01.10 % + Cypermethrin 05.50 % EC | | | | | |
| Cotton | Aphids, Jassids, Thrips, Bollworms | 10 + 50 | 1000 | 400 – 1000 | 30 |
| Azoxystrobin 10.0% + Fipronil 5% SC | | | | | |
| Chilli | Thrips and fruit borer | 50+100 | 1000 | 500 | 5 |
| Rice | Yellow stem borer, leaf folder, brown plant hopper | 62.5+ 125 | 1250 | 500 | 53 |
| Azoxystrobin 1.3% + Tebuconazole 0.22% + Thiamethoxam 25.9% FS | | | | | |
| Okra (seed treatment) | Aphids and Jassids | 0.9+0.15 +18.0 | 60 | NA | NA |
| Benzpyrimoxan 10% + Pymetrozine 20% WG | | | | | |
| Rice | Brown Plant Hopper, White Backed Plant Hopper and Green | 50+100 – 70+140 | 500-700 | 500 | 36 |

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|--|--|---------------------------|------------|------|-----|
| | Leaf Hopper | | | | |
| Benzpyrimoxan 10% + Thiamethoxam 3.3% SC | | | | | |
| Rice | Brown Plant Hopper, White Backed Plant Hopper | 75 + 25 | 750 | 500 | 30 |
| Benzpyrimoxan 10% + Fipronil 10% SC | | | | | |
| Rice | Brown Plant Hopper, White Backed Plant Hopper | 60-75 + 40-50 | 400-500 | 500 | 22 |
| Beta-cyfluthrin 08.49 % + Imidacloprid 19.81 % w/w OD | | | | | |
| Brinjal | Aphids, Jassids, Shoot & fruit borer | 15.75 + 36.75- 18 + 42 | 175 – 200 | 500 | 07 |
| Soybean | Girdle beetle Semilooper | 31.5 + 73.5 | 350 | 500 | 17 |
| Cotton | Jassid Whitefly | 18 + 42 | 200 | 500 | 21 |
| Chilli | Thrips, Aphids, Whitefly | 27.9 + 65.1 | 310 | 500 | 5 |
| Bifenthrin 03 % + Chlorpyrifos 30 % w/w EC | | | | | |
| Paddy (Rice) | Stem borer, Leaf folder | 24 + 240- 30 + 300 | 800 – 1000 | 500 | 21 |
| Bifenthrin 8% + Clothianidin 10% SC | | | | | |
| Ground nut | White grub, thrips and aphids | 80+100 | 1000 | 1000 | 83 |
| Cotton | Grey weevil, mealy bug, jassids, whitefly, aphids and thrips | 80+100 | 1000 | 1000 | 73 |
| Sugarcane | Termites and early shoot borer | 80+100 | 1000 | 1000 | 300 |
| Bifenthrin 10% + Thiamethoxam 5% SE | | | | | |
| Paddy | Stem Borer , Leaf Folder, Gall Midge & Brown Plant Hopper | 50 + 25 | 500 | 500 | 39 |

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|---|---|----------------|------|-----------|----|
| Buprofezin 09 % + Acephate 24 % w/w WP | | | | | |
| Rice (Paddy) | Brown plant hopper | 54 + 144 | 600 | 500 | 20 |
| Buprofezin 15 % + Acephate 35 % w/w WP | | | | | |
| Cotton | Jassids, Thrips & White fly | 187.5 + 437.5 | 1250 | 500 | 48 |
| Okra | Jassids & White fly | 112.5 + 262.5 | 750 | 500 | 07 |
| Paddy (Rice) | Brown plant hopper, White backed plant hopper | 187.5 + 437.5 | 1250 | 500 | 20 |
| Buprofezin 20 % + Acephate 50 % w/w WP | | | | | |
| Paddy (Rice) | Stem Borer, Leaf folder, Brown plant hopper | 200 + 500 | 1000 | 500 | 20 |
| Cotton | Thrips, Jassids, Mealy bug | 250 + 625 | 1250 | 500 | 15 |
| Buprofezin 20 % + Acetamiprid 2% w/w WP | | | | | |
| Rice | Brown plant hopper, White backed plant hopper, Leaf Folder, Green Leaf Hopper, Stem Borer | 176 | 800 | 400 | 15 |
| Buprofezin 22.0% + Fipronil 3 % SC | | | | | |
| Rice (Paddy) | Brown plant hopper | 110 + 15 | 500 | 400 – 500 | 32 |
| Buprofezin 23.10 % + Fipronil 3.85 % w/w SC | | | | | |
| Rice | Brown plant hopper (<i>Nilparvata lugens</i>) | 173.25 + 28.88 | 750 | 500 | 30 |
| Cartap Hydrochloride 50 % + Buprofezin 10 % w/w WP | | | | | |
| Rice | Yellow stem borer, Brown plant hopper, Leaf folder, | 480 | 800 | 500 | 20 |

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|--|--|--------------------|-----------|-----|----|
| | Green leaf hopper, White backed plant hopper | | | | |
| Cartap Hydrochloride 7.5 % w/w + Eamectin benzoate 0.25 %w/w GR | | | | | |
| Rice | Yellow stem borer (<i>Scirpophaga incertulas</i>) | 18.75 + 562.5 | 7.5 | - | 35 |
| Cartap Hydrochloride 04 % + Fipronil 00.50 % CG | | | | | |
| Paddy (Rice) | Stem borer, Leaffolder | 675 – 900 | 15 – 20 | - | 27 |
| Soybean | Leaf worm, Girdle beetle, Semilooper, Stem fly | 28 | 200 | 500 | 41 |
| Chlorantraniliprole 4.3% +Abamectin 1.7% SC | | | | | |
| Chilli | Thrips, Mites and Fruit Borer | 26.875 + 10.625 | 625 | 500 | 5 |
| Tomato | Fruit Borer, Leaf Miner, mites | 21.5 + 8.5 | 500 | 500 | 5 |
| Chlorantraniliprole 09.30 % + Lambda-cyhalothrin 04.60 % ZC | | | | | |
| Pigeon pea | Pod borer | 30 | 200 | 500 | 18 |
| Cotton | Bollworms complex | 37.50 | 250 | 500 | 20 |
| Brinjal | Shoot and fruit borer, Jassids | 28 | 200 | 500 | 05 |
| Okra | Shoot and fruit borer, Jassids | 28 | 200 | 500 | 03 |
| Rice | Stem borer, Leaf folder & Green leaf hopper | 28 – 35 | 200 – 250 | 500 | 53 |
| Soybean | Leaf Worm, Girdle Beetle, Semi looper, Stem Fly | 28 | 200 | 500 | 41 |
| Okra | Shoot & Fruit Borer, Jassids | 28 | 200 | 500 | 3 |

| | | | | | |
|--|--|-------------------|--|--------------------|-----|
| Cabbage | Spodoptera, Diamond Back Moth | 30 | 200 | 500 | 5 |
| Groundnut | Leaf miner, Leaf feeder, Thrips | 28 | 200 | 500 | 20 |
| Blackgram | Pod Borers (<i>Spodoptera litura</i> , <i>Maruca vitrata</i> , <i>Helicoverpa</i> <i>armigera</i>) | 28 (18.6+9.20) | 200 | 500 | 24 |
| Chlorantraniliprole 00.50 % + Thiamethoxam 01 % w/w GR | | | | | |
| Rice | Stem borer, Leaf folder, Brown plant hopper, Green leaf hopper | 30.0 + 60.0 | 6 kg/ha | - | 60 |
| Chlorantraniliprole 08.80 % + Thiamethoxam 17.50 % w/w SC | | | | | |
| Tomato | Leaf Miner, Whitefly, Fruit borer | 150 (50+100) | 500 Application method -Soil drench (Single application), Application time -8-10 days after transplanting | 50-100 ml/plant | 36 |
| Rice Nursery | Stem borer, Leaf folder, Green leaf Hopper | 180 (60+ 120) | 600 Application method -Soil drench (Single application), Application time -At the time of sowing to before transplanting | 100L/ha | 116 |
| Chlorpyrifos 50 % + Cypermethrin 05 % EC | | | | | |

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|---|--|----------------------|-----------|---------------|----|
| Cotton | Aphid, Jassids, Thrips, Whitefly, <i>Spodoptera litura</i> , Spotted bollworm, Pink bollworm, American bollworm | 500 + 50 | 1000 | 500 - 1000 | 15 |
| Rice (Paddy) | Stem borer, Leaf folder | 312 + 32 | 625 – 750 | 500 – 700 | 15 |
| Brinjal | Shoot & Fruit Borer | 500+50 | 1000 | 500 | 7 |
| Cabbage | Diamond Back Moth | 375+37.5 | 750 | 500 | 5 |
| Chlorpyrifos 16 % + Alphacypermethrin 01 % EC | | | | | |
| Cotton | Spotted bollworm, Pink bollworm, American bollworm | 425 | 2500 | 500 – 750 | 15 |
| Clothianidin 3.5%+Pyriproxyfen 8% SE | | | | | |
| Brinjal | Whitefly, Jassid, Thrips and Aphids | 44+100 | 1250 | 500 | 3 |
| Cotton | Whitefly, Jassid, Thrips and Aphids | 44+100 – 52.5+120 | 1250-1500 | 500 | 60 |
| Cyantraniliprole 7.3% w/w + Diafenthiuron 36.4% w/w SC (Cyantraniliprole 8% w/v + Diafenthiuron 40% w/v SC) (Cyantraniliprole 80 g/L + Diafenthiuron 400 g/L – 480 SC) | | | | | |
| Cotton | Jassids, Whitefly, Thrips, Aphids, Pink bollworm | 300 (50 + 250) | 625 | 500 | 29 |
| Chilli | Thrips, Mites, Whitefly, Fruit borer | 300 (50 + 250) | 625 | 500 | 5 |
| Cyantraniliprole 16.9% + Lufenuron 16.9% w/w SC | | | | | |
| Rice | Stem borer, Leaf folder | 20 (10+10) | 50 | 500 | 39 |
| Cypermethrin 10 % + Indoxacarb 10 % w/w SC | | | | | |
| Cotton | Jassids, Thrips, Bollworms | 50 +50 | 500 | 400 – 1000 | 07 |
| Rice | Yellow stem Borer | 25 + 25 | 250 | 500 | 37 |

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|---|--|-------------------------------|-------------|-----------|----|
| | Leaf Folder | 37.5+37.5 | 375 | | |
| Cypermethrin 3 % + Quinalphos 20 % EC | | | | | |
| Brinjal | Shoot & Fruit borer | - | 350 – 400 | 500 – 600 | 07 |
| Cotton | American bollworm, Spotted bollworm, Jassids | - | 1000 – 1250 | 500 – 600 | 15 |
| Deltamethrin 00.72 % + Buprofezin 05.65 % w/w EC | | | | | |
| Rice (Paddy) | Brown plant hopper, Leaf folder | 0.78 + 62.50- 0.94 + 75.00 | 1250 + 1500 | 500 | 30 |
| Diafenthiuron 47 % + Bifenthrin 9.4 % w/w SC | | | | | |
| Cotton | Thrips (<i>Thrips tabaci</i>), Leaf hopper (<i>Amrasca devastans</i>), Whitefly (<i>Bemisia tabaci</i>), Aphid (<i>Aphis gossypii</i>) | 293.75 + 58.7 | 625 | 500 | 30 |
| Chilli | Thrips (<i>Scirtothrips dorsalis</i>), Aphids (<i>Aphis gossypii</i>) | 293.75 + 58.7 | 625 | 500 | 07 |
| Diafenthiuron 48 % + Dinotefuran 8% WG | | | | | |
| Cotton | Thrips (<i>Thrips palmi</i>), Jassids (<i>Amrasca bigutulla bigutulla</i>), Whiteflies (<i>Bemisia tabaci</i>), Mites (<i>Tetranychus urticae</i>) | 300 + 50 | 625 | 500 | 43 |
| Brinjal | Thrips (<i>Thrips palmi</i>), Jassids (<i>Amrasca bigutulla bigutulla</i>), Whiteflies (<i>Bemisia tabaci</i>), Mites | 300 + 50 | 625 | 500 | 03 |

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|--|--|-------------------------|------|-----|----|
| | <i>(Tetranychus urticae)</i> | | | | |
| Diafenthiuron 30 % + Pyriproxyfen 8% w/w SC | | | | | |
| Chilli | Mites & Whitefly | 300+80 | 1000 | 500 | 3 |
| Cotton | Whitefly | 300+80 | 1000 | 500 | 35 |
| Dimethoate 20% (w/w) + Cypermethrin 3% (w/w) EC | | | | | |
| Brinjal | shoot and fruit borer (<i>Leucinodes orbonalis</i>), Jassids (<i>Amrasca biguttula biguttula</i>) and Epilachna Beetle (<i>Henosepilachna vigintioctopunctata</i>) | 122.9 + 18.4 (141.3) | 800 | 500 | 7 |
| Dinotefuran 4 % + Acephate 50% w/w/ SG | | | | | |
| Rice | Brown Plant Hopper & whiteBacked Plant Hopper | 35 + 400 | 500 | 500 | 28 |
| Cotton | Aphids, Jassids, Thrips & Whiteflies. | 22 + 275 | 880 | 500 | 10 |
| Dinotefuran 5% + Ethion 50% EC | | | | | |
| Rice | Brown plant hopper, White backed Plant hopper, Green leaf hopper and Leaf folder | 50 + 500 | 1000 | 500 | 33 |
| Dinotefuran 11% + Pymetrozine 36% WG | | | | | |
| Paddy | Brown plant hopper (<i>Nilparvata lugens</i>), White backed plant hoppers (<i>Sogatella furcifera</i>) | 164.5 | 350 | 500 | 36 |
| Dinotefuran 15 % + Pymetrozine 45% WG | | | | | |
| Rice | Brown Plant Hopper, white Backed Plant | 200 | 333 | 500 | 24 |

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|---|---|-------------------------------|-----------|---------|--|
| | Hopper, Green Leaf Hopper, Rice Ear Head Bug | | | | |
| Emamectin Benzoate 1.1% + Diafenthiuron 30 % SC | | | | | |
| Cotton | Aphids , Jassids, thrips, whitefly & Pink Bollworm | 11 + 300 | 1000 | 500 | 38 |
| Brinjal | Aphids, Thrips, Whitefly, red Spider Mites, Shoot borer and fruit borer | 11 + 300 | 1000 | 500 | 08 |
| Emamectin Benzoate 01.50 % + Fipronil 03.50 % SC | | | | | |
| Chilli | Thrips, Fruit borer | 07.5 + 17.5- 11.25 + 26.25 | 500 – 750 | 500 | 03 (day) or 48 (Hrs) Re- entry period after each application |
| Emamectin Benzoate 3.5% (w/w) + Lambda Cyhalothrin 5% (w/w) WP | | | | | |
| Chilli | Fruit borer (<i>Helicoverpa armigera</i>), Thrips (<i>Thrips tabaci</i>), Mites (<i>Tetranychus urticae</i>) | 8.75 + 12.5 | 250 | 500-700 | 7 |

| Emamectin benzoate 5 % w/w + Lufenuron 40 % w/w WG | | | | | |
|---|--|--|------|---------|----|
| Cauliflower | Diamond Back Moth (<i>Plutella xylostella</i>) Fruit borer (<i>Spodoptera litura</i> & <i>Helicoverpa armigera</i>) | 27 (Emamectin benzoate 3.0 + Lufenuron 24.0) | 60 | 500 | 03 |
| Chilli | Fruit borer (<i>Spodoptera litura</i> & <i>Helicoverpa</i> <i>armigera</i>), Thrips (<i>Scirtothrips</i> <i>dorsalis</i>), Mites (<i>Polypagotarsonem</i> <i>uslatus</i>) | 27 (Emamectin benzoate 3.0 + Lufenuron 24.0) | 60 | 500 | 03 |
| Emamectin Benzoate 2.2% + Permethrin 15.3 % EC | | | | | |
| Maize | <i>Spodoptera</i> <i>frugiperda</i> (FAW) | 16.5 + 114.75 | 750 | 500 | - |
| Emamectin Benzoate 1.5% + Profenofos 35% w/w WDG | | | | | |
| Cotton | Whiteflies, Jassids, Thrips, Aphids and Pink Boll Worm | 10.5 + 245 | 700 | 500 | 15 |
| Chilli | Yellow Mites, Thrips and Fruit Borer | 10.5+245 | 700 | 500 | 7 |
| Maize | Fall armyworm | 11.25+262.5 | 750 | 500 | 35 |
| Emamectin Benzoate 3.8% (w/w) + Thiamethoxam 20% (w/w) WDG | | | | | |
| Okra | Aphid (<i>Aphis</i> <i>gossypii</i>), Jassid (<i>Amrasca devastans</i>), Whitefly (<i>Bemisia</i> <i>tabaci</i>), Shoot and fruit borer (<i>Earias</i> <i>vittela</i>). | 3.8 + 20 | 100 | 500-700 | 5 |
| Ethion 40 % + Cypermethrin 05 % w/w EC | | | | | |
| Cotton | American bollworm | 400 + 50 | 1000 | 500 | 15 |
| Chilli | Mites and Thrips | 600 + 75 | 1500 | 500 | 10 |

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|--|--|--------------------------|---------|-----|----|
| Ethiprole 40% + Imidacloprid 40 % WG | | | | | |
| Rice (Paddy) | Brown plant hopper | 37.50 + 37.50 | 93.75 | 375 | 15 |
| | White backed planthopper | 50 + 50 | 125 | 375 | 15 |
| Ethiprole 10.7% + Pymetrozine 40% WG | | | | | |
| Rice | Brown plant hopper & White backed plant hopper | 40.12+150 to 45.48+170 | 375-425 | 375 | 27 |
| Fenazquin 10% + Bifenthrin 4% EC | | | | | |
| Tomato | Red Spider mite (<i>Tetranychus urticae</i>) Whitefly (<i>Bemisia tabaci</i>) | 125+50 | 1250 | 500 | 5 |
| Tea | Red Spider mite (<i>Oligonychus coffeae</i>) Mosquito Bug (<i>Helopeltis theivora</i>) | 100+40 | 1000 | 400 | 7 |
| Fenobucarb 20 % + Buprofezin 05 % w/w SE | | | | | |
| Paddy (Rice) | Brown plant hopper, Green leaf hopper | 400 + 100 | 2000 | 500 | 30 |
| Fenobucarb 22.5% + Buprofezin 11.25% + Acephate 2.5% ME | | | | | |
| Paddy | Brown plant hopper, Green leaf hopper & White Backed Plant Hopper | 393.75 + 196.875 + 43.75 | 1750 | 500 | 25 |
| Fipronil 5% + Buprofezin 20% SC | | | | | |
| Chilli | Thrips | 37.5+150 | 750 | 500 | 5 |
| | Fruit Borer | 50+200 | 1000 | | |
| Cotton | Jassids, Thrips. Aphid & Whitefly | 50+200 | 1000 | 500 | 6 |
| Rice | Brown Plant Hopper | 25 + 100 | 500 | 500 | 20 |

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|---|--|------------------------|-----------|-----|----|
| | Yellow Stem Borer, Leaf Folder | 50 + 200 | 1000 | 500 | |
| Fipronil 10% + Diafenthiuron 30% w/w WG | | | | | |
| Cotton | Jassids (<i>Amrasca bigutulla bigutulla</i>), thrips (<i>Thrips tabaci</i>), Pink bollworm (<i>Pectinophora gossypiella</i>) | 75 + 225 | 750 | 500 | 21 |
| Fipronil 2.50% + Propargite 35.00% SE | | | | | |
| Chilli | Aphids, thrips, mites & Fruit Borer | 50 + 700 | 2000 | 500 | 20 |
| Flubendiamide 04 % + Buprofezin 20 % w/w SC | | | | | |
| Paddy (Rice) | Yellow stem borer, Leaf folder, Brownplant hopper | 35 + 175 | 175 + 700 | 500 | 30 |
| Flubendiamide 8.33 % + Deltamethrin 5.56 % w/w SC | | | | | |
| Chickpea | Pod borer | 22.50 + 15 | 250 | 500 | 07 |
| Cucumber | Cucumber beetle, Fruit fly | 18 + 12- 22.50 + 15 | 200 – 250 | 500 | 05 |
| Flubendiamide 03.50 % + Hexaconazole 05 % w/w WG | | | | | |
| Paddy (Rice) | Stem borer, Leaf folder | 35 + 50 | 1000 | 500 | 20 |
| Groundnut | <i>Spodoptera litura</i> | 52.5 + 75 | 1500 | 500 | 31 |
| Chilli | <i>Spodoptera litura</i> , <i>Helicoverpa armigera</i> | 52.5 + 75 | 1500 | 500 | 10 |
| Flubendiamide 07.5 % + Kresoxim Methyl 37.5 % w/w SC | | | | | |
| Rice | Stem borer & Leaf folder | 50 + 250 | 667 | 500 | 30 |

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|--|--|---------------------------|-----------|-------------|-----|
| Tomato | Fruit borer (<i>Helicoverpa armigera</i>) Leaf eating caterpillar/ Fruit borer (<i>Spodoptera litura</i>) | 50 + 250 | 667 | 500 | 07 |
| Flubendiamide 19.92 % + Thiacloprid 19.92 % w/w SC | | | | | |
| Chilli | Thrips, Fruit borer | 48 + 48 – 60 + 60 | 200 – 250 | 500 | 05 |
| Rice | Yellow stem borer, Leaf folder | 60 + 60 | 250 | 500 | 33 |
| Tea | Mosquito Bug and Semi looper | 60 + 60 | 250 | 400 | 7 |
| Fipronil 04 % + Acetamiprid 04 % w/w SC | | | | | |
| Cotton | Aphid, Jassids, Whitefly | 40 + 40 | 1000 | 500 | 30 |
| Fipronil 15% + Imidacloprid 5% w/v SC | | | | | |
| Cotton | Aphids, Jassids, Thrips | 75 + 25 | 500 | 500 | 6 |
| | Pink bollworm | 90 + 30 | 600 | | |
| Fipronil 40 % + Imidacloprid 40 % WG | | | | | |
| Sugarcane | White grub (<i>Holotrichia consanguinea</i>) | 175 + 175- 200 + 200 | 437.5-500 | 1000 – 1250 | 296 |
| Groundnut | White Grubs (<i>Holotrichia serrata</i>) | 100 + 100 to 120 + 120 | 250 – 300 | 1000 | 106 |
| Cotton | Jassids and Thrips | 50 + 50 | 125 | 500 | 36 |
| Rice | Yellow Stem Borer (<i>Scirpophaga incertulas</i>), Leaf Folder (<i>Cnaphalocrocis medinalis</i>), Brown Plant Hopper | 40+40 – 50+50 | 100-125 | 500 | 7 |

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|--|---|---------------|----------|-----|----|
| | (<i>Nilparvata lugens</i>) | | | | |
| Chilli | Thrips (<i>Scirtothrips dorsalis</i>), Fruit Borer (<i>Helicoverpa armigera</i>) | 30+30 – 40+40 | 75 – 100 | 500 | 7 |
| Fipronil 04 % + Thiamethoxam 04 % w/w SC | | | | | |
| Rice | Brown Plant Hopper, Green Leaf Hopper & White Backed Plant Hopper | 44 + 44 | 1100 | 500 | 45 |
| Fipronil 07 % + Hexythiazox 02 % w/w SC | | | | | |
| Chilli | Mites and Thrips | 70 + 20 | 1000 | 500 | 07 |
| Fipronil 15% + Flonicamid 15% WDG | | | | | |
| Cotton | Aphid, Jassid, thrip, whitefly, mealy bug and bollworm | 60 + 60 | 400 | 500 | 33 |
| Paddy | Brown plant hopper, green leaf hopper, stem borer and leaf folder | 60 + 60 | 400 | 500 | 30 |
| Fluxametamide 3.8% w/w + Pyridaben 9.5 % w/w SC | | | | | |
| Brinjal | Leaf hopper – <i>Amrasca biguttula biguttula</i> Thrips – <i>Thrips palmi</i> Fruit & shoot Borer – <i>Leucinodes orbonalis</i> Red spider mite – <i>Tetranychus urticae</i> Whitefly – <i>Bemisia tabaci</i> | 38 + 95 | 1000 | 500 | 5 |
| Chilli | Thrips- <i>Scirtothrips dorsalis</i> , Fruit borer- <i>Helicoverpa armigera</i> , Tobacco caterpillar- <i>Spodoptera litura</i> . Yellow mite – <i>Polyphagotarsonemus latus</i> | 38 + 95 | 1000 | 500 | 5 |

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|--|---|----------------------|-----------|-------------------|------------------------------------|
| Hexythiazox 3.5% + Diafenthiuron 42% WDG | | | | | |
| Chilli | Mites, Thrips, Jassids, Aphids & White fly | 22.75 + 273 | 650 | 500 | 07 |
| Imidacloprid 18 + Carboxin 22.5% + Thiram 22.5 | | | | | |
| Wheat | Aphids, Termites | 1.89-2.52 | 3.4 | - | - |
| Imidacloprid 18.50 % + Hexaconazole 01.50 % FS | | | | | |
| Groundnut | Termites, Thrips, Jassids, Root grubs, Collar rot, Stem rot, Tikka leaf spot & Rust | 37 + 3 | 200 | Not applicable | This is used as seed dresser |
| Wheat | Termites, Aphids, Smut, Rust | 37 + 3 | 200 | Not applicable | This is used as seed dresser |
| Imidacloprid 06 % + Lambda-cyhalothrin 04 % SL | | | | | |
| Paddy (Rice) | Stem borer, Hispa, Plant hopper, Gundhibug | 18 + 12 | 300 | 500 | 10 |
| Indoxacarb 5% + Fipronil 5 % W/w SC | | | | | |
| Chilli | Thrips | 37.5+37.5 – 50+50 | 750-1000 | 500 | 5 |
| Cabbage | Diamond back Moth | 37.5+37.5 – 50+50 | 750-1000 | 500 | 7 |
| Indoxacarb 14.50 % + Acetamiprid 07.70 % w/w SC | | | | | |
| Cotton | Jassids, Whitefly, Bollworms | 88.8 – 111 | 400 – 500 | 500 | 30 |
| Chilli | Thrips, Fruit borer | 88.8 – 111 | 400 – 500 | 500 | 05 |
| Indoxacarb 10.0% + Thiamethoxam 10.0% WG | | | | | |
| Tomato | Whitefly and fruit borer | 75 + 75 | 750 | 500 | 5 |

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|--|---|---------------------------------|-----------|-----|----|
| Paddy | Brown plant hopper, yellow stem borer and leaf folder | 50 + 50 | 500 | 50 | 14 |
| Isoprothiolane 28% + Fipronil 5% EC | | | | | |
| Rice | Stem borer, Brown plant hopper, Green leaf hopper, Whorl maggot | 280+50 | 1000 | 500 | 58 |
| Novaluron 05.25 % + Eamectin Benzoate 0.9% SC | | | | | |
| Cabbage | Diamond Back Moth (<i>Plutella xylostella</i>), Tobacco Caterpillar (<i>Spodoptera litura</i>) | 45.94 + 7.87 | 875 | 500 | 3 |
| Chilli | Gram Pod Borer (<i>Helicoverpa armigera</i>), Tobacco Caterpillar (<i>Spodoptera litura</i>) | 45.94 + 7.87 | 875 | 500 | 3 |
| Red Gram | Gram Pod Borer (<i>Helicoverpa armigera</i>) | 45.94 + 7.87 | 875 | 500 | 25 |
| Rice | Stem Borer (<i>Scirpophaga incertulas</i>) | 78.75 + 13.50 | 1500 | 500 | 32 |
| Novaluron 05.25 % + Indoxacarb 04.50 % SC | | | | | |
| Tomato | Fruit borer (<i>Helicoverpa armigera</i>) & Leaf eating caterpillar (<i>Spodoptera litura</i>) | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 05 |
| Chickpea | Gram pod borer (<i>Helicoverpa armigera</i>) | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 9 |
| Soybean | <i>Spodoptera</i> spp., <i>Helicoverpa armigera</i> and <i>Semilooper</i> | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 14 |
| Pigeon pea (Red Gram/Arhar/Tur) | Pod borer complex (<i>Helicoverpa armigera</i> & <i>Melanogromyza abtuse</i>) | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 25 |

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|---|--|---------------------------------|-------------|------------|---------------------------------|
| Chilli | Fruit borer complex (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i>) | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 7 |
| Black gram | Black gram pod borer complex (<i>Etiella zinckenella</i> , <i>Spodoptera litura</i> and <i>Maruca vitrata</i>) | 43.31 + 37.13- 45.94 + 39.38 | 825 – 875 | 500 | 14 |
| Rice (Paddy) | Rice leaf folder (<i>Cnaphalocrosis medinalis</i>) | 22.97 + 19.69 | 437.5 | 500 | 40 |
| Groundnut | <i>Helicoverpa armigera</i> & <i>Spodoptera litura</i> | 45.94 + 39.38 | 875 | 500 | 34 |
| Phenthoate 45% + Cypermethrin 6% EC | | | | | |
| Paddy | Yellow Stem Borer, Leaf Folder and Brown Plant Hopper | 450+60 | 1000 | 500 | At the end of the Harvest |
| Profenofos 40 % + Cypermethrin 04 % EC | | | | | |
| Cotton | Bollworm complex | 440 – 660 | 1000 – 1500 | 500 – 1000 | 14 |
| Profenofos 50% + Fenpropathrin 5% EC | | | | | |
| Cotton | Pink Bollworm (<i>Pectinophora 70ossypiella</i>), Thrips (<i>Thrips tabaci</i>), Aphids (<i>Aphis gossypii</i>), Jassids (<i>Amrasca biguttula</i>) and Whitefly (<i>Bemisia tabaci</i>) | 825 (750 + 75) | 1500 | 500 | 22 |
| Profenofos 40 % + Fenpyroximate 02.50 % w/w EC | | | | | |
| Chilli | Thrips, Mites, Fruit borer | 0.4 + 0.025 | 1000 | 500 | 07 |
| Brinjal | Whitefle, Mites (<i>Tetranychus</i> | 0.4 + 0.025 | 1000 | 500 | 07 |

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|---|--|----------------------------|--------------------|---------------------------------------|----|
| | <i>urticae</i>), Fruit & Shoot Borer | | | | |
| Profenofos 40% (w/w) + Lambda Cyhalothrin 1.5% (w/w) EC | | | | | |
| Cotton | Aphids, thrips, Leafhopper, Whitefly, Bollworm | 400 + 15 | 1000 | 500-1000 | 15 |
| Propargite 50 % + Bifenthrin 5 % w/w SE | | | | | |
| Okra | Mite , White fly & | 594 + 59.4 – | 1100 – 1150 | 500 | 05 |
| | Jassids | 621 + 62.1 | | | |
| Tomato | Mite , White fly & Jassids | 594 + 59.4 – 621 + 62.1 | 1100 – 1150 | 500 | 05 |
| Propargite 42 % + Hexythiazox 2 % EC | | | | | |
| Tea | Red spider Mites | 525 + 25 | 1250 | 400 – 500 | 07 |
| Chilli | Yellow Mite | 525 + 25 | 1250 | 500 | 7 |
| Apple | European Red Mite | 4.2 + 0.2 (g/10 L water) | 10 (ml/10 L water) | 10-15 L/tree depending on tree canopy | 15 |
| Pymetrozine 25.0% + Thiamethoxam 17.5% + Hexaconazole 12.5% WG | | | | | |
| Paddy | Pests: Brown Plant Hopper, White Backed Plant Hopper, Green Leaf Hopper, Yellow Stem Borer, Leaf Folder Diseases: Sheath Blight, Leaf Blast | 100 + 70 + 50 | 400 | 500 | 19 |
| Pyraclostrobin 10% + Fipronil 5% w/v SC | | | | | |
| Rice | Yellow stem borer, Leaf folder, Brown Plant Hopper (BPH), Sheath Blight, Leaf blast | 50+100 | 1000 | 500 | 53 |
| Chilli | Thrips, Chilli fruit Borer, Powdery Mildew, Anthracnose/ Fruit | 50+100 | 1000 | 500 | 7 |

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|--|---|-----------------------------------|--------------------------|--------------------------------------|------|
| | Rot | | | | |
| Pyraclostrobin 3.5% + Thiram 15.0% + Clothianidin 22.5% FS | | | | | |
| Ground nut (Seed Treatment) | Aphids, Jassids, termites and white grub | 2.45 + 10.5 + 15.75 | 70 ml / 10 Kg of seed | Not applicable for seed treatment | |
| Pyriproxyfen 05 % + Fenpropathrin 15 % EC | | | | | |
| Cotton | Bollworms | 25 + 75- 37.5 + 112.5 | 500-750 | 500-750 | 14 |
| | Whitefly | 60 + 60 | 600 | 500 | 19 |
| Brinjal | Whitefly, Shoot & fruit borer | 25 + 75 - 37.5 + 112.5 | 500 - 750 | 500 – 750 | 07 |
| Okra (Bhindi) | Whitefly, Fruit borer | 25 + 75- 37.5 + 112.5 | 500 – 750 | 500 – 750 | 07 |
| Chilli | Whitefly, Fruit borer | 25 + 75- 37.5 + 112.5 | 500 – 750 | 500 – 750 | 07 |
| Pyriproxyfen 05 % + Diafenthiuron 25 % SE | | | | | |
| Cotton | Whitefly (<i>Bemisia tabaci</i>), Thrips (<i>Thrips tabaci</i>), Jassid (<i>Amrasca biguttula biguttula</i>), Aphid (<i>Aphis gossypi</i>) | 50 + 250- 62.50 + 312.5 | 1000 – 1250 | 500 | 35 |
| Chilli | Whitefly (<i>Bemisia tabaci</i>), Thrips (<i>Thrips tabaci</i>) and Mites (<i>Polyphagotarsonne mus latus</i>) | 37.5 + 187.5 – 50 + 250 | 750 - 1000 | 500 | 10 |
| Pyriproxyfen 10 % + Bifenthrin10 % w/w EC | | | | | |
| Cotton | Whitefly | 60 + 60 | 600 | 500 | 19 |
| Pyriproxyfen 8% + Dinotefuran 5% + Diafenthiuron 18% SC | | | | | |
| Brinjal | Whitefly, Jassid, Thrips and Aphids | 48+30+108 to 66+41.25+148.5 | 600-825 | 500 | 8-10 |
| Cotton | Whitefly, Jassids, Thrips and Aphids | 48 + 30 + 108 | 600 | 500 | 48 |

| Spirotetramat 11.01 % + Imidacloprid 11.01 % w/w SC | | | | | |
|---|--------------------------------------|--------------|--------|--|-----|
| Okra (Bhindi) | Red spider mites | 60 + 60 | 500 | 500 | 03 |
| Brinjal | Whitefly, Red spidermites | 60 + 60 | 500 | 500 | 05 |
| Mango | Mealy bug | 0.018% | 0.075% | Spray fluid as required depending upon size of tree. | 15 |
| Cotton | Mealy bug | 75+75 | 625 | 500 | 22 |
| Tetraniliprole 10.08 % w/w + Thiacloprid 30.25% w/w SC | | | | | |
| Rice | Stem Borer and Leaf Folder | 37.5 + 112.5 | 312.5 | 500 | 43 |
| Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC | | | | | |
| Cotton | Jassids, Aphids, Thrips, Bollworms | 44 | 200 | 500 | 26 |
| Maize | Aphid, Shoot fly, Stem borer | 27.50 | 125 | 500 | 42 |
| Groundnut | Leaf hopper, Leaf eating caterpillar | 27.5 | 150 | 500 | 28 |
| Soybean | Stem fly, Semilooper, Girdle beetle | 27.50 | 125 | 500 | 48 |
| Chilli | Thrips, Fruit borer | 33 | 150 | 500 | 03 |
| Tea | Tea mosquito bug, Thrips, Semilooper | 33 | 150 | 400 | 01 |
| Tomato | Thrips, Whiteflies & Fruit borer | 27.5 | 125 | 500 | 05 |
| Thiamethoxam 0.4% + Bifenthrin 0.8% GR | | | | | |
| Groundnut | White grub & Termite | 48+96 | 12 | - | 105 |

| | | | | | |
|---|---|---|---|-----------------------------|-----|
| Thiamethoxam 00.90 % + Fipronil 00.20 % w/w GR | | | | | |
| Ground nut | White grub, Termite | 108 + 24- 135 + 30 | 12.15 | 106 | 48 |
| Sugarcane | White grub (<i>Holotrichia consanguineo</i>) and Termite (<i>adontotermes obesus</i>) | 135+30 | 15 | - | 296 |
| Thiocyclam Hydrogen Oxalate 3.0% + Clothianidin 1.2% GR | | | | | |
| Paddy | Yellow Stem Borer (<i>Scirpophaga incertulas</i>), Leaf Folder (<i>Cnaphalocrocis medinalis</i>), Brown Plant Hopper (<i>Nilaparvata lugens</i>), and White Backed plant Hopper (<i>Sogatella furcifera</i>). | 300 + 120 – 375 + 150 | 10000-12500 | - | 56 |
| PUBLIC HEALTH USE | | | | | |
| Pest | Habitat | a.i. (mg/m ²) | Formulation (gm) | Dilution (Ltr.) | |
| Alphacypermethrin 05 % WP | | | | | |
| Adult Mosquito | - | 25 (2 cycles application to repeat after 3 month) | Dilute 250 gm of Alphacypermethrin5% WP in 10 litres of water tocover 500 sq m area. | 250 | |
| | - | 40 (single cycle application) | Dilute 250 gm of Alphacypermethrin 5% WP in 10 litres of water tocover 500 sq m area. | 400 | |
| Alphacypermethrin Impregnated long lasting nets 00.667 % w/w (200 mg/m ²) (For Import only) | | | | | |
| Ready to use Impregnated Bed Net | | To control mosquitoes under Public Health | | | |
| Bifenthrin 10.00%WP | | | | | |
| Adult Mosquito | - | 25 (2 rounds of spraying 3 | 125 | Dilute 125 gm of Bifenthrin | - |

| | | months apart | | 10% WP in 10 liters of water to cover 500 m ² areas. | |
|---|--|---|---------------------------|---|---|
| Chlorpyriphos Methyl 40 % EC | | | | | |
| - | Used to control of adult vector mosquitoes | | | | |
| Cyfluthrin 10 % WP | | | | | |
| Under Public Health Programme (Adult Mosquitoes) | - | 25 (2 cycles application to be Repeated after 3 months. | 250 | Dilute 250 gm of Cyfluthrin 10% WP in 10 litres of water to cover 500 m2 areas. | |
| | | 40 (single cycles application) | 400 | Dilute 400 gm of Cyfluthrin 10% WP in 10 litres of water to cover 500 m2 areas. | |
| DDT 50 % WP | | | | | |
| Adult mosquitoes | - | 1-2gm | - | - | - |
| Deltamethrin 00.15 % + Piperonyl 00.55 % EC | | | | | |
| Adult mosquitoes | - | Mosquitoes control under Public Health | - | - | - |
| Deltamethrin 01.25 % w/w or 01.00 % w/v EC | | | | | |
| Insect | Method of Application | Dosage/ha. | | | |
| | | a.i. (gm) | Formulation (ml) | Dilution in diesel Oil (Litre) | |
| Adult Mosquitoes | Thermal fogging | 0.50 | 50 | 10 | |
| | Ultra low volume application | 0.50 | 50 | 0.50 | |
| Deltamethrin 02.50 % WP | | | | | |
| Adult Mosquitoes | For public healthpurpose only | 625-1250 mg/50 m ² | 25-50 g/50 m ² | 1.5-2.5 Ltr./50 m ² | |
| Deltamethrin impregnated Bed Net 55 mg/m ² (For Import only) | | | | | |

| | | | | | |
|---|---|--------------------------------------|--|---------------------------------------|---------------------------|
| Ready to use insecticide Impregnated Bed net | | | Mosquitoes control under Public Health | | |
| Diflubenzuron 02 % GR | | | | | |
| Name of the insect pest | Habitat | Dosage/ha (Kg.) | - | Waiting period | |
| Mosquito larvae | Water bodies (Cess pits, Drains, Disused wells and Pools) | 1.25-3.0 | - | - | |
| Fenitrothion 40 % WP | | | | | |
| Common name of pest | a.i. (gm) | Formulation | - | Dilution in water (litres) | |
| Mosquitoes & files | 400 | 1000 | - | 80 | |
| Lambda Cyhalothrin 9.7% w/w (10% W/V) CS | | | | | |
| Purpose and Target Pest | Spray Deposit Rate (mg a.i./ sq.m meter) | Gram a.i dose | | Dose per 500 sq.m. meter surface area | |
| | | Spray Deposit Rate (g.a.i/sq. meter) | g. a.i per 500 sq. mtrs | Formulation Dose (ml) | Water Volume (litre) |
| For public health use for controlling mosquitoes transmit malaria (<i>Anopheles culicifacies</i>) | 25 | 0.025 | 12.5 | 1.25 | 10 |
| Name of Insect Pest | | Dosage | | | |
| | | Infestation | Requirement mg a.i./sq.m | Formulation (ml)/ liter water | Spray solution (ml)/ sq m |
| Mosquitoes (<i>Aedes aegypti</i> , <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i>); Housefly (<i>Musca domestica</i>), Cockroaches (<i>Periplaneta americana</i> , <i>Blattella germanica</i>) and Bed bugs (<i>Cimex hemipterus</i>) | | Moderate | 20 | 4 | 50 |
| | | High | 25 | 5 | 50 |
| Lambda-cyhalothrin 10 % WP | | | | | |
| Pest | Use | Dosage 500 m ³ floor area | | Dilution in water (Litre) | |
| | | a.i. (gm) | Formulation (gm) | | |

| | | | | | |
|--|---|-----------------------|------------------------|------------------------------|------------------------|
| Mosquitoes | For public health only | 7.50 - 15 | 75 - 150 | 10 | |
| Mosquito, housefly, cockroach | For household use | 10 | 100 | 10 | |
| Malathion 25 % WP | | | | | |
| Crop | Common name of the pest | Dosage/m ² | | | Waiting Period (days) |
| | | a.i. (gm) | Formulation (gm) | Dilution in water (Liter) | |
| - | Adult mosquitoes | 02/m2 | 08/m ² | 100 | Repeat after 6-8 weeks |
| Novaluron 10 % EC | | | | | |
| Place of Application | Insect | Dosages | | Waiting Period | |
| | | a.i. (gm) | Formulation (ml) | | |
| Clean surface water | <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> | 30 | 0.03 ml/m ² | Every 12 weeks | |
| Polluted surface water | <i>Culex quinquefasciatus</i> , <i>Anopheles subpictus</i> | 60 | 0.06 ml/m ² | Every 6 th week | |
| Pyriproxyfen 00.50 % GR | | | | | |
| Breeding habitats | | Dosage/ha | | Interval between application | |
| | | a.i. (gm) | Formulation (Kg.) | | |
| Clean water/Domestic containers | | 10 (0.01ppm) | 2 | 08 weeks | |
| Polluted/ Peri-domestic breeding habitat | | 20 (0.02ppm) | 4 | 08 weeks | |
| Pirimiphos methyl 50 % EC | | | | | |
| Location | Name of the pest | Dosage | - | Waiting period | |
| Mosquito breedingsurface | Mosquito larvae | 25 ml/ha | - | - | |
| Sulfoxaflor 21.8 % w/w SC | | | | | |
| Crop | Target pest | Dosage/ha | | Water (l/ha) | Waiting |

| | | a.i. (gm/ha) | Formulation (ml/ha) | | period | |
|--|--|-------------------------------|------------------------|-----------------------|--------|--|
| Rice | Brown Plant Hopper (<i>Nilaparvatha Lugens</i>) | 90 | 375 | 500 | 14 | |
| | White backed plant hopper (<i>Sogatella furcifera</i>) | 90 | 375 | 500 | | |
| Cotton | Jassids (<i>Amarasca bigutella</i>), | 75 | 313 | 500 | | |
| | Aphid (<i>Aphis gossypi</i>) | 75 | 313 | 500 | | |
| | Whitefly (<i>Bemmissia tabaci</i>) | 90 | 375 | 500 | | |
| | Cotton mealy bug (<i>Phenococcus spp.</i>) | 90 | 375 | 500 | | |
| Temephos 50 % EC | | | | | | |
| Regime of application | Common name of pest | Dosage/ha | | Waiting period (days) | | |
| | | a.i. (g) | Formulation (ml) | | | |
| Mosquito larval treatment area, ponds, swamps, drainage, ditches,canals and other, Breeding areas. | Mosquitoes larvae | 37.5 - 125 | 75 - 250 | 200 | | |
| HOUSEHOLD INSECTICIDES | | | | | | |
| Alphacypermethrin 0.1 % w/w (RTU) | | | | | | |
| Common name of pest | | Dose/m ² (a.i./mg) | | Formulation (ml) | | |
| Cockroaches, Adult mosquitoes, Adulthouseflies | | 25 - 50 | | 25 - 50 | | |
| Alphacypermethrin 00.50 % Chalk | | | | | | |
| Ready to use household insecticides | | | To control cockroaches | | | |

| Allethrin 00.50 % Coil | | | |
|---|---------------------------|--|--|
| Ready to use household insecticides | | Used to control of house hold flying insect like houseflies and mosquitoes | |
| Allethrin 00.50 % Mosquito Coil | | | |
| Ready to use household insecticides | | To control of adult mosquitoes | |
| Allethrin 00.20 % Coil Adult Mosquitoes | | | |
| Ready to use household insecticide | | To control of mosquito | |
| Allethrin 00.50 % Coil Adult Mosquitoes | | | |
| Ready to use household insecticide | | To control of mosquito | |
| Allethrin 04 % Mat Adult Mosquitoes | | | |
| Ready to use household insecticide | | To control of mosquito | |
| Allethrin 05 % Aerosol | | | |
| Ready to use household insecticide | | To control of mosquito | |
| Allethrin 03.60 % LV | | | |
| Ready to use household insecticide | | To control of mosquito | |
| Bifenthrin 00.05 % Mosquito coil (8 hours Min.) | | | |
| Ready to use household insecticide | | Used to control adult mosquitoes | |
| Cyfluthrin 10 % WP | | | |
| Common name of pest | Dosage | | Use |
| | a.i. in mg/m ² | Formulation (gm/m ²) | |
| Adult mosquitoes, Cockroaches, Houseflies & Mosquitoes in house | 25 | 0.250 for each spray | 100 gm of Cyfluthrin 10% WP to be diluted in 8 liters of potable water 40 gm of Cyfluthrin 10% WP to be diluted in 10% litres water. |

| | | | | |
|---|---|--------|--|---|
| | | 20 | 0.200 for each spray | 100 gm of Cyfluthrin 10% WP to be diluted in 8 liters of potable water 40 gm of Cyfluthrin 10%WP to be diluted in 10% litres water. |
| Cyfluthrin 10 % WP | | | | |
| For house hold use Cockroach HouseflyMosquitoes | | 25-40 | 250 - 400 | Dilute 250-400 gm of Cyfluthrin 10% WP in10 litres of water to cover 500 m² areas. |
| Chlorpyriphos 02 % w/w EC | | | | |
| Ready to use household insecticides | | | Used for protecting wood from the attack of termites & borers. | |
| Chlorpyriphos Methyl 40 % EC | | | | |
| Used to control adult mosquitoes | | | | |
| Cyphenothrin 07.20 % VP w/w (For use by pest control operator only) | | | | |
| American Cockroaches & German Cockroaches | | | To control of American Cockroaches & German Cockroaches (In house) | |
| Cypermethrin 03 % Smoke Generator | | | | |
| Ready to use household insecticide. | | | To control Cockroaches in house, hotels & warehouse. | |
| Cypermethrin 01.00% Dust | | | | |
| Ready to use household insecticide. | | | To control Cockroaches in house. | |
| Cypermethrin 01 % Chalk | | | | |
| Ready to use household insecticide. | | | To control Cockroaches in house. | |
| Cyfluthrin 05 % EW | | | | |
| Ready to use | Cockroaches, Houseflies, mosquitoes, in-house. Bed net impregnation | 8.0 ml | 1.0 | 50 ml diluted solution/m² |

| Cyfluthrin 00.025 % + Transfluthrin 00.04 % Aerosol | | | | | |
|---|--|--|---|-------------------------------|---|
| Ready to use | | | Used for controlling /repelling Mosquitoes, Houseflies & cockroaches in homes. | | |
| Transfluthrin 1 % w/w + Cypermethrin 0.2 % w/w Spray | | | | | |
| Ready to use house hold | | | Mosquitoes (<i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i>), Houseflies (<i>Musca domestica</i>), Cockroaches (<i>Periplaneta americana</i> , <i>Blatella germenica</i>) and Ants(Red ants) | | |
| Deltamethrin 02.50 % Flow | | | | | |
| Name of insectpest | Type of use | Dosage /m ² area of bed net | | - | - |
| | | a.i. | Formulation | | |
| Adult Mosquitoes | For impregnation of polyester , nylon and cotton bed net | 25 mg | 1 ml | - | - |
| Deltamethrin 02.50 % WP | | | | | |
| Name of insect pest | Habitat | Dosage /m ² area of bed net | | | - |
| | | a.i. | Formulation | Dilution in water (Liter) | |
| Lesser grain borerRice moth, Saw toothed grain beetle, Red flour beetle, Khapra beetle, Almond moth | Grain and seeds instacks | 30 mg/m ² | 1.2 g/m ² | 1 Liter for 30 m ² | - |
| Rice weevil | Grain and seeds instacks | 30 mg/m ² | 1.2 g/m ² | 1 Liter for 30 m ² | - |
| | Walls, Ceilings & Floor | 30 mg/m ² | 1.2 g/m ² | 1 Liter for 30 m ² | - |

| | | | |
|---|---|--|------------------------------------|
| Diflubenzuron 02 % Tablets | | | |
| Name of pest | Habitat | Dosage | Dilution in water |
| Mosquitoes larvae | Unused Coolers | 0.5-1.0 ppm | 0.5-1.0 tablet in 40 liter water |
| Diflubenzuron 0.1% W/W Termite Bait to be used by pest control operators only | | | |
| Termites | - | - | Bait mixed with water in 1:2 ratio |
| Diflubenzuron 20 % + Deltamethrin 02% SC | | | |
| Name of the insectpest | Habitat | Dosage/ha (kg.) | Waiting period |
| House fly maggot | Poultry Manure & kitchen garbage | 1.50-2.00 ml/liter water (5 litreof water /10 m ² | - |
| Diflubenzuron 25 % WP | | | |
| Name of pest | Habitat | Dosage | Dilution in water |
| Mosquitoes larvae | Clean surface water | 25 - 50 g a.i./ha | - |
| | Polluted surfacewater | 50 - 100 g a.i./ha | - |
| | Sewage pits, Soak pits, Latrines, Septictanks | 01.0 mg a.i./liter | - |
| House fly maggots control | In poultry manuregarbage, filth & dumping areas | 5.0 gm/10 m ² | 05 liters water/10m ² |
| Dinotefuran 0.5% RB Gel | | | |
| Ready to use house hold | | Used for controlling American cockroach (<i>Periplaneta americana</i>) and German Cockroach (<i>Blattella germanica</i>) | |
| Deltamethrin 00.05 % + Allethrin 00.04 % w/w EC | | | |
| Common name of house hold insect | Dosage/ha | | |
| | g a.i. | | Formulation (ml) |

| | | |
|---|--|--------------------------|
| Cockroaches, House flies, Mosquitoes | 12.5 - 25.0 | 25 - 50 |
| Deltamethrin 02.50 % + D-trans allethrin 02 % w/w EC | | |
| Insects | Dosage/m ² | |
| | a.i. (mg) | Quantity of solution(ml) |
| Cockroach, Houseflies, Mosquitoes | 12.5 - 25.0 + 10 - 20 | 25 - 50 |
| Deltamethrin 00.02 % + Allethrin 00.13 % w/w | | |
| Ready to use | To control cockroaches, mosquitoes andflies | |
| Deltamethrin 00.50 % w/w Chalk | | |
| Ready to use household insecticide | To control Cockroaches, ants and bedbugs | |
| D-Trans Allethrin 00.10 % + Permethrin 00.03 % + Imiprothrin 00.02 % Aerosol w/w (all InsectKiller Aerosol) | | |
| Ready to use | To control cockroaches, mosquitoes and house flies | |
| Deltamethrin 01 % RTU | | |
| Ready to use household insecticide | To control Cockroaches in house. One litre of insect control of paints sufficient for an area of 22 sq. meters. Two coats of insect control paint are recommended giving 18 hours of drying between the coats. | |
| D-Trans Allethrin 02% Mosquito Mat | | |
| Ready to use household insecticide. | To control Adult Mosquitoes in house. | |
| D-Trans Allethrin 00.10 % w/w Mosquito Coil | | |
| Ready to use household insecticide. | To control and repel of Adult Mosquitoes in the house. | |
| D-Allethrin 21.97 % w/w Mosquito Mat. | | |
| Used to control Adult Mosquitoes | Open Area like Park, Garden and Farm Houses etc. only. | |
| Benzoate 00.10 % w/w Gel | | |

| Name of Insect/Pest | Dose (g a.i.) | Formulation Dose | Application Usages |
|--|-----------------------------|---|--|
| American Cockroach (<i>Periplaneta americana</i>) | 0.001 g a.i./m ² | 1.0 gm of Gel Bait/m ² (2-5 spots) | Place “Ready to Use Gel Bait” (RB) for use as spot or cracks and crevices treatment in residential institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners, areas where cockroaches forage or crack and crevices, holes, hidden surfaces, any other places where cockroaches are typically known to hide etc. for the control of cockroaches. |
| German Cockroach (<i>Blattella germanica</i>) | 0.001 g a.i./m ² | 1.0 gm of Gel Bait/m ² (1-2 spots) | Place “Ready to Use Gel Bait” (RB) for use as spot or cracks and crevices treatment in residential institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners, areas where cockroaches forage or crack and crevices, holes, hidden surfaces, any other places where cockroaches are typically known to hide etc. for the control of cockroaches. |

Fenitrothion 20 % OL

| Name of Pest | Dose (g a.i.) | Formulation (ml) | Instruction for use |
|-----------------------------|---------------|------------------|---|
| Bedbug (<i>Cimex</i> spp.) | 2 | 10 | Take 10 ml of BILFOL 20 and dilute in 200 ml of kerosene. Apply spot spray thoroughly in all bed bug infested areas like charpoy furniture etc. taking care that the spray is the directed into cracks and crevices where bedbugs are hiding. 200 ml of spray wash will approx cover 10 m ² it can also be |

| | | | |
|---|--|--|--|
| | | | applied with a brush where ever bedbugs occur. |
| Fipronil 00.03 % & 0.5 % Gel | | | |
| Ready to use household insecticide | | Used to control of German & American Cockroaches. | |
| Fipronil 00.05 % GEL | | | |
| House hold | Common name of the pest | Dosage/m² | |
| House hold | American Cockroach (<i>Periplanata americana</i>), German cockroach (<i>Blattella germanica</i>) | 0.03 g (in a bait gun), 3-4 spot/m ² | |
| House hold | German cockroach (<i>Blattella germanica</i>) | (100 mg spot= approx 5 mm diameter) Low Density – 1 spot /M ² High Density – 2 spots / M ² | |
| | American Cockroach (<i>Periplanata americana</i>) | Low Density – 2 spots /M ² High Density – 3 spots / M ² | |
| Imiprothrin 00.10 % + Cyphenothrin 00.13 % w/w | | | |
| Ready to use | | Used for controlling cockroaches in homes. | |
| Imiprothrin 00.70 % + Cypermethrin 00.20 % w/w Aerosol | | | |
| Ready to use household insecticides | | Used against Cockroaches. | |
| Imiprothrin 00.05 % + Cypermethrin 01 % CL | | | |
| Ready to use | | Used for controlling cockroaches in houses. | |
| Imidacloprid 00.03 % w/w Gel | | | |
| Species | | Recommended Dose | |
| Pharaoh ant (<i>Monomorium pharaonis</i>), Small black ant (<i>Monomorium indicum</i>), Crazy ant (<i>Paratrechina longicomis</i>),Ghost ant (<i>Tapinoma melanocephalum</i>) | | Low infestation level (one spot of 200 mg/m ² of infested area). Moderate to high infestation level (one spot of 300 mg/m ² of infested area). | |
| Scoring of ant activity will be done based on the following: Low activity=1-50 ants passing from a given point in the time period of one minute. Medium activity=51-200 ants passing from a given point in the time period of one minute. | | | |

| | | | |
|--|---|--|---|
| High activity= 201 ants passing from a given point in the time period of one minute. | | | |
| Imidacloprid 02.15 % w/w Gel | | | |
| Ready to use household insecticide | | Used to control of German & American Cockroaches | |
| Imidacloprid 21 % + Beta-cyfluthrin 10.50 % w/w SC | | | |
| Name of Insect pests | Places | Dosage | |
| American Cockroaches, German Cockroaches | Private Houses, Factories, Offices, Market places, Restaurants, Hotels, Shops, Ships, Hospital etc. | Diluter 04 ml of Imidacloprid 21.0% w/w + Beta-cyfluthrin 10.5% w/w SC with 01 L of water. Apply 50 ml of this solution to spray per square meter area or apply 01 L of this solution to cover 20 square meter area. | |
| Bed Bug | Hospitals, Houses, Commercial establishments, Hotels, Dormitories, Old age Homes, Hostels, etc. | | |
| Lambda-cyhalothrin 00.50 % Chalk | | | |
| Ready to use household insecticides | | Used to control Cockroaches. | |
| Lambda-cyhalothrin 02.43 % CS | | | |
| Purpose and target pest | Dosage/m2 of netting | | |
| | a.i. (mg) | Concentration of spray fluid | Quantity of spray fluid (ml) |
| Impregnation of bed nets to prevent attack from mosquitoes | 10.0 | 0.05% | 1000 (depending on the type of the net) |
| Lambda-cyhalothrin 02.43 % CS | | | |
| Common Name of pest | Dosage | | |
| Adult mosquitoes, Adult house flies, Cockroaches | 20 - 30 mg/m ² | 10-15 ml/litres of water to cover 50 m ² area | |
| Lambda-cyhalothrin 02.43 % CS | | | |
| Target insect | Dosage | | |

| | Mg a.i./m ² | Method of application | | |
|---|--|---|--|---|
| Non-porous surfaces – Mosquitoes, Houseflies & Cockroaches | 12.50 | Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m ² on non porous & @ 50 ml/m ² on porous surfaces. | | |
| Porous surfaces – Mosquitoes House flies& Cockroaches | 25 | Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m ² on non porous & @ 50 ml/m ² on porous surfaces. | | |
| Lambda-cyhalothrin 02.43 % CS | | | | |
| Name of pest | Dosage/m ² | | | |
| | a.i. (mg) | Formulation (ml) | Dilution in water | |
| Cockroaches | 50 | 1 | Dissolve 500 ml of formulated material in 10 litre water to cover 500 square meter area. | |
| Housefly, Adult mosquitoes | 0.2 | 0.004 | Dissolve 4 ml of formulated material in 20 litre water to cover 1000 square meter area. | |
| Indoor | | | | |
| <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> | 0.5 | 0.01 | Dissolve 5 ml of formulated material in kerosene to cover 500 square meter area. | |
| Outdoor | | | | |
| <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> | 3.5 | 70 | Dissolve 70 ml Formulation in kerosene to cover 1 hectare area. | |
| Target Pest | Active Ingredient Dose (g a.i.) | Formulation Dose (ml) | Method of application (water volume) | Application Usage |
| Houseflies (<i>Musca domestica</i>) Mosquito (<i>Anopheles</i> spp.) | 0.375 – 0.5 g a. i. per Litre water (15 – 20 mg. a. i. per square meter) | 15 – 20 per litre water | For Low Pest Infestation (Maintenance Rate) | For use as indoor or outdoor as a surface crack |
| American Cockroaches (<i>Periplaneta americana</i>) | | | Mix 15 ml of the | |

| | | | | |
|---|----------------------------|--|---|---|
| German Cockroaches (<i>Blattella germanica</i>) | | | product in one litre of water and spray the solution uniformly @ 40 ml per square meter. For High Rate Infestation (Cleanout Rate) Mix 20 ml of the product in one litre of water and spray the solution uniformly @ 40 ml per square meter. | and crevice or spot spray treatment in residential, institutional, commercial and industrial areas/establishmentsetc. |
| <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> | 0.5 | 0.01 | Dissolve 5 ml of formulated material in kerosene to cover 500square meter area. | |
| Outdoor | | | | |
| <i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> | 3.5 | 70 | Dissolve 70 ml Formulation in keroseneto cover 1 hectare area. | |
| Malathion 02 % House Hold Spray | | | | |
| Ready to use | | To control of Bed, Bugs, Flies, Ants, Gnats, Mosquitoes, Moths and Cockroaches in houses. | | |
| Metofluthrin 00.005 % (Mosquito Coil)-Min. 07 Hrs. Burning time | | | | |
| Ready to use household insecticide. | | To control of mosquitoes in houses. | | |
| Metofluthrin 00.005 % (Mosquito Coil)-Min.12 Hrs. | | | | |
| Ready to use household insecticide. | | To control of mosquitoes in houses. | | |
| Metofluthrin 0.32 % Liquid Vaporizer | | | | |
| House hold | | for Mosquitoes | | |
| Metofluthrin 0.32 % Liquid Vaporizer (with 1% perfume) | | | | |
| Household | | For mosquitoes (<i>Anopheles stephensi</i> , <i>Aedes aegypti</i> & <i>Culex quinquefasciatus</i>) | | |
| Novaluron 10 % EC | | | | |
| Clean surface water | <i>Anopheles stephensi</i> | 30 | 0.03 ml/m ² | - |

| | | | | |
|---|---|---|-----------------------------|----------------------------|
| | <i>Aedes aegypti</i> | | | |
| Polluted water | <i>Culex quinquefasciatus</i> <i>Anopheles subpictus</i> | 60 | 0.06 ml/m ² | - |
| Permethrin 2.00% w/w | | | | |
| Ready to use household insecticides | | For control of mosquitoes both indoors and outdoors. After unpacking and before using the new bed net, keep it in and open place for 12 hrs away from the sunlight. | | |
| Permethrin 2% w/w Aerosol (To be used in Aircraft only) | | | | |
| Ready to use insecticides | | For use inside aircraft prior to embarkation of passengers to control and prevent the spread of mosquitoes. | | |
| Propetamphos 01 % Spray | | | | |
| Ready to use household insecticide | | To control of Cockroaches, Bed bugs, Flies, fleas, Mosquitoes & Silverfish. | | |
| Propoxur 00.75 % + Cyfluthrin 00.025 % Aerosol | | | | |
| Ready to use household insecticide | | Cockroaches, Mosquitoes & Houseflies | | |
| Propoxur 20 % EC | | | | |
| Common name of pest | | Dose (g a.i.) | Formulation (ml) | Dilution in water (litres) |
| Flying insect- Mosquitoes, Files, Cockroaches , Bed bugs, Flash, Ticks crickets , Woodlice , Mite, Silver fish, Spider, Ants etc. | | 200 | 1000 | 40 |
| Pirimiphos-methyl 01 % Spray | | | | |
| Location | Pest | Dosage | Exposure period (min. hrs.) | |
| Spot spray in houses | Cockroaches , bed bugs, flea etc. | 100 ml/1 m ² | 01 | |
| Space spray in houses | Mosquitoes, houseflies | 50 ml/100 m ³ | 01 | |

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|---|--|
| Pyrethrin 00.05 % + Malathion 01 % | |
| Insects | Used to control of Cockroaches, Mosquitoes and Flies. |
| Propoxur 02 % Bait | |
| Ready to use household insecticides | Used to control of Cockroaches and Flies. |
| Pyrethrin 00.20 % Spray | |
| Ready to use household insecticide | To control of Cockroaches, Houseflies, Mosquito and bugs |
| Propoxur 01 % Spray | |
| Ready to use household insecticide | Used to control of Cockroaches, House flies and Adult Mosquitoes |
| Prallethrin 01 % w/w Red Mosquitoes Mat | |
| Ready to use household insecticide. | Used to control of adult mosquitoes |
| Prallethrin 00.04 % Coils (Min.11Hrs.) | |
| Ready to use household insecticide | Used to control mosquitoes in Houses |
| Prallethrin 00.04 % Coils (Min.6 Hrs.) | |
| Ready to use household insecticide | Used to control mosquitoes in Houses |
| Prallethrin 00.80 % w/w Red Mosquitoes Mat | |
| Ready to use household insecticide. | Used to control of Mosquitoes. |
| Prallethrin 00.50 % w/w Mosquitoes Coil | |
| Ready to use household insecticide. | Used to control of adult mosquitoes. |
| Prallethrin 01.20 % Mat | |
| Ready to use household insecticide. | Used to control of adult mosquitoes. |
| Prallethrin 00.04 % w/w Mosquito Coil | |
| Ready to use household insecticide. | Used to control of adult mosquitoes. |
| Prallethrin 19 % w/w VP | |
| Ready to use household insecticide. | Used to control of adult mosquitoes. |

| Prallethrin 02.40 % w/w Liquid Vaporizer | | | |
|---|---|---|--|
| Ready to use household insecticide. | | Used to control of Mosquitoes. | |
| Renofluthrin 0.025% w/w Mosquito Coil | | Used to control adult mosquitoes of <i>Aedes aegypti</i> , <i>Anopheles stephensi</i> & <i>Culex quinquefasciatus</i> . | |
| Renofluthrin 1.0% W/W Incense Stick | | For the control of mosquito species <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> , and <i>Culex quinquefasciatus</i> under household conditions. | |
| S-Bioallethrin 02.40 % Mosquitoes Mat | | | |
| Ready to use household insecticide. | | Used to control of adult mosquitoes. | |
| Thiamethoxam 00.01 % w/w Gel Bait | | | |
| Common Name of the Insect/Pest | Dose (g a.i.) | Formulation Dose | Application/Usage |
| Black Carpenter Ants (<i>Camponotus</i> spp.) | 0.0001 g.a.i. per spot (2-4 spots per square meter) | 1.0 gm of gel bait per spot (2-4 spots per square meter) | Locate the ant trails or location where ants are most active. Place” Ready to Use Gel Bait” (RB) for controlling ants for use as spot or cracks and crevices treatment in residential, Institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners areas where antsforage or crack and crevices, holes, hiddensurfaces any other places where ants are typically known to hide. |
| Transfluthrin 0.08 % w/w Aerosol | | | |
| Ready to use household insecticide | | Used to control in household Mosquitoes (<i>Aedes aegypti</i> , <i>Culex quinquefasciatus</i>) and Housefly (<i>Musca domestica</i>). | |

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|---|--|
| Transfluthrin 0.15 % w/w Mosquito Coil | |
| Ready to use household insecticide | To control / repel mosquitoes in houses |
| Transfluthrin 00.88 % & 01.60 % Liquid Vaporizer | |
| Ready to use household insecticide. | Used to control of Adult Mosquitoes and House fly. |
| Transfluthrin 01.60 % Liquid Vaporizer (For 30 Nights (25 ml) | |
| Ready to use household insecticide. | Used to control of Adult Mosquitoes. |
| Transfluthrin 20 % w/w MV Gel | |
| Ready to use household insecticide. | Used to control of Mosquitoes in the house. |
| Transfluthrin 00.03 % w/w Mosquito Coil | |
| Ready to use household insecticide | Used for controlling/repelling of Mosquitoes in the house |
| Transfluthrin 01 % EU (Smoke generator) | |
| Use / recommendation | It is used for controlling/repelling adult mosquitoes in the houses (Effective for 6 hrs.) |
| Transfluthrin 01.20 % Liquid Vaporizer (For 60 Nights (45 ml) & 90 nights (67 ml.) | |
| Ready to use household insecticide | Used to control of adult mosquitoes |
| Transfluthrin 12 % AE | |
| Ready to use household insecticide. | Used to controlling/ repelling of adult mosquitoes in the houses (effective for 12 hours) |
| Zinc Phosphide 01 % bait (Household Product) | |
| To be ready to use household insecticide | To control Rats |

Recommended chemicals by FAO for Locust Control

| Sr. No. | Chemical | Dose (gram active ingredient per ha.) | |
|---------|---|---------------------------------------|--------|
| | | Hoppers | Adults |
| 1 | Chlorpyrifos 20 % & 50 % EC | 240 | 240 |
| 2 | Deltamethrin 2.8 % EC & 1.25 % ULV | 12.5 | 12.5 |
| 3 | Diflubenzuron 25 % WP | 60 | NA |
| 4 | Fipronil 5 % SC & 2.92 % EC | 6.25 | 6.25 |
| 5 | Lambdacyhalothrin 5 % EC & 10% WP | 20 | 20 |
| 6 | Malathion 50 % EC & 25 % WP & 96 % ULV | 925 | 925 |
| 7 | Fenitrothion is also recommended for the control of locust but only in scheduled desert area and public health but banned in agriculture.(refer copy of Gazette of India, S.O.706 (E) dated 03 rd May, 2007) | | |
| 8 | Powder formulations are approved (RC-413) for control of desert locust in Scheduled Desert Area: - Fenvalerate 0.4 % DP Malathion 5 % DP Quinalphos 1.5 % DP | | |

Ad-hoc approval of molecules for Pink Stem Borer/Army worm in Wheat

for (N – W India) Punjab state only

(Valid up to 31.12.2024)

| Sr. No. | Name of Chemical | Dose |
|---------|------------------------------|--|
| 01 | Chlorpyrifos 20% EC | 2.5l/ha. |
| 02 | Chlorantraniliprole 18.5% SC | 125ml/ha. |
| 03 | Fipronil 0.3% GR | 17.5kg/ha. Mixed with 125kg. of sand / soil & apply (broadcast) in moist wheat field |
