
INSECTICIDES

1. Insecticides registered for agriculture use (Page No. 2 to 63).
 2. Insecticides combination registered for agriculture use (Page No. 64 to 66).
 3. Insecticides registered for public health use (Page No. 67 to 70).
 4. Insecticides registered for household use (Page No. 71 to 78).
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**MAJOR USES OF PESTICIDES Registered under the Insecticides Act, 1968
2012**

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



**GOVERNMENT OF INDIA
Ministry of Agriculture
Department of Agriculture & Cooperation
Directorate of Plant Protection, Quarantine & Storage Central Insecticides Board & Registration
Committee
N.H.- IV, Faridabad-121 001**

APPROVED USES OF REGISTERED INSECTICIDES

Agricultural use

(AS ON 30.09.2012)

ACEPHATE 75% SP

Crop	Common name of the pest	Dosage / ha			Waiting Period (days)
		a.i (gm)	Formulation (gm/ml)	Dilution in Water (Litre)	
Cotton	Jassids Boll Worms	292	390	500-1000	15
		584	780	500-1000	
Safflower	Aphids	584	780	500-1000	15
Rice	Stem Borer, Leaf Folder, Plant Hoppers, Green Leaf Hopper	500-750	666-1000	300-500	15

ACETAMIPRID 20% SP

Cotton	Aphids	10	50	500-600	15
	Jassids	10	50		
	Whiteflies	20	100		
Cabbage	Aphids	15	75	500-600	7
Okra	Aphids	15	75	500-600	3
Chilli	Thrips	10-20	50-100	500-600	3
Rice	BPH	10-20	50-100	500-600	7

ALPHACYPERMETHRIN 10% EC

Cotton	Boll Worms	15-25	165-280	600-1000	7
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Alphacypermethrin 10% SC

Cotton	Bollworm	25-30	250-300	500-1000	10
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ALUMINUM PHOSPHIDE 56% 3 g tab, 10g pouch

Name of Commodity	Common name of the pest	Dose	Exposure Period	Aeration Waiting Period
Stored Whole Cereals and Seed Grains Millet Pulses Dry Fruits, Nuts Spices & Oil Seeds	Rice Weevil (S.O) Lesser Grain Borer, Khapra Beetle (T.g), Rust Red Flour Beetle, Saw Toothed Grain Beetle , Caddlle Beetle, Drug Store Beetle , Cigarette Beetle , Pulse Beetle	3 tablets (3gm) Per ton or 150 gm/100m ³ OR 10 gm Pouch Per ton of Commodity or 150 gm/ 100 m ³ .	Minimum 5 days (S.O.) 7 Days (T.g.)	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 48 hrs in both. The cases gen recommendation for bag stock 15 days
Mild Products : Deoiled Cakes, Rice Bran Flour, Grain Animal & Poultry Food Split Pulses (Dal) & other Processed Food	Long Headed Floor Beetle, Coffee Borer, Dried Fruit Beetle, Flat Grain Beetle, Carpet Beetle	3 tablets/10 (gm) per ton or 225 gm/100m ³	5 days	Aeration is waiting period 7 days to be checked PH3 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 Kernel Damage in the field Cockroach.	14 tablets/1000 Cft. or 150 gm/100m ³ or 4 pouch 10 gms each/1000 CFT & or 150 gm/100m ³	72 hrs	Aeration Period 24 hrs detectors trips or phosphine detect tubes should be used in the premises to signal safety of atmosphere.

ALUMINUM PHOSPHIDE 15%, 12g tablet

Stored whole cereals and seed grains.	Rice weevil, Rust red flower beetle	1 tablet (12G) per ton or 600 g/ 100 m ³	Non polythene packed commodities: Partial-1 hour. Full-(6-8) hour. Polythene Packed commodities: Minimum 48 hrs.	7-14
Millets, 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		5
Milled products: De-oiled cakes, rice bran	Rust red flower beetle	3 tablets / ton	48 hrs	5
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	3
Other processed food and Empty Godowns & Sheds (under air tight condition)	All insect pests.	14 tablets /1000 tons or 600 g/1000m³	48 hrs 24 hrs	3

Aluminium phosphide 77.5% Gr

Commodity	Insect	Dose/m ³	Exposure Period	Waiting Period
Stored Grain	Red rust Flour beetle Lesser grain borer Rice Weevil Khapra beetle	3.35 gm	7 days	24hours

Azadirachtin 0.15% W/W Min. Neem Seed Kernel Based E.C.

Cotton	White fly	-	2500-5000	500-1000	5
	Bollworm	-	2500-5000	500-1000	5
Rice	Thrips Stem borer Brown Plant hopper Leaf folder	-	1500 to 2500	500	5

Azadirachtin 0.3% (3000 PPM) Min. Neem Seed Kernel Based E.C.

Cotton	American bollworm	-	4000	1000	5
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Azadirachtin 1% Min. E.C. Neem based.

Tea	Thrips	-	4000-5000	450	1
	Red Spider mites	-	4000-5000	600	1

Azadirachtin 1% (10000 ppm) Min. Neem Based E.C. Containing

Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	-	1000-1500	500	3
Brinjal	Fruit and Shoot borer (<i>Leucinodes orbonalis</i>)	-	1000-1500	500	3

Azadirachtin 0.03% Min. Neem Oil Based E.C. Containing

Cotton	<i>(Helicoverpa armigera)</i> (Bollworm) Aphids	-	2500-5000	500	5
			2500-5000	500	5
Rice	Leaf roller, Stem borer, BPH	-	2000	1000	5

Azadirachtin 0.03% (300 ppm) Neem Oil Based WSP Containing

Bengal Gram	Pod Borer (<i>Heliothis</i>)	-			7
Red Gram	Pod Borer (<i>Melangromy</i>)	-	2500-5000	500-1000	7
Cotton	Aphids Jassids White Flies Bollworms,	-	2500-5000	500-1000	7
Okra	Fruit borer, White flies Leaf Hopper	-	2500-5000	500-1000	7

Brinjal	Shoot & Fruit borer, beetles	-	2500-5000	500-1000	7
Cabbage	Aphids, DBM, Cabbage worm, Cabbage looper	-	2500-5000	500-1000	7
Jute	Semi looper, Hairy caterpillar	-	2500-5000	500-1000	7

Azadirachtin 5% w/w Min. Neem Extract Concentrate Containing

Tea	Caterpillar	-	200	400	5
	Pink mite		200	400	5
	Red Spider mites		200	400	5
	Thrips		200	400	5
Tobacco	Tobacco caterpillar	-	200	400	5
	Aphids		200	400	5
Rice	Brown Plant Hopper	-	200	400	5
	Leaf Folder		200	400	5
	Stem Borer		200	400	5
Cotton	White Fly	-	375	750	5
	Leaf hoppers		375	750	5
	Heliothis		375	750	5
	Aphids	-	375	750	5
Cauliflower	Spodoptera	-	200	400	5
	Diamond back moth		200	400	5
	Aphids		200	400	5
Bhindi	Leafhopper, whitefly, Aphid	-	200	400	5
	Pod Borer		200	400	5
Tomato	Aphids, Whitefly, Fruit borer	-	200	400	5

Bacillus thuringiensis var. galleriae

Cabbage & Cauliflower	Diamond back moth (<i>Plutella xylostella</i>)	-	06-1.0	500	-
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)		1.0-1.5	500	
Bhendi	Fruit borer (<i>Earias spp.</i>)		1.0-1.5	500	
Chillies	Fruit borer (<i>Spodoptera litura</i>)		1.5-2.0	1000	
Cotton	Bollworm (<i>Heliothis armigera</i>)		2.0-2.5	1000	
Rice	Leaf folder (<i>Cnaphalocrocis medinalis</i>)		1.0-3.0	1000	

Bacillus sphaericus 1593 M sero type H 59 5b

Anophles species Culex species	For Drains, Cesspits Cesspools, paddy fields, ponds	-	112	1 ltr/10 ltr of water	-
Anophles species Culex species	Camsuarina pits, unused wells, unused overhed tanks, Domestic wells (Not for drinking requirements)		112	1 ltr/10 ltr of water	

Bacillus thuringiensis-k

Cotton	Bollworm	-	750-1000	750-1000	Nil
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Bacillus thuringiensis Serovar Kurstaki (3a, 3b, 3c) 5% WP

Cotton	American Bollworm	25.00-50.00	500-1000	500-1000	-
	Spotted Bollworm	37.50-50.00	750-100	500-1000	
Red gram	Pod Borer	50.00-62.50	1000-1250	500-1000	-
Cabbage	Diamond back moth	25.00-50.00	500-1000	500-1000	

Bacillus thuringiensis var. Kurstaki, Serotype H-39, 3b, Strain Z-52
Bio-tech. International

Cotton	Bollworms, Spodoptera	-	0.75-1.0 kg.	500-750	-	
Rice	Stem borer & Leaf folder	-	1.50 kg.	500-750	-	
Gram	Heliothis	-	0.75 kg.	500-750		
Pigeon Pea	Heliothis	-	0.75 kg.	500-750	-	
Soyabean	Spodoptera, Heliothis, Spilosoma, Semilooper, Leaf miner		0.75 kg.	500-750		
Tobacco	Spodoptera, Heliothis	-	1.50-2.00 kg.	500-750	-	
Castor	Hairy caterpillar, <i>Ahea janata</i>	-	1.00 kg.	500-750		
Teak	Dfoliater (<i>Hyblaea</i> pured), Skeletonizer (<i>Eutectona</i> <i>machaeralis</i>)	-	0.25-0.50% Sol.	As required.		

Barium carbonate

Places	Name of the pest	Dose a.i.
Godowns Residential Premises Public halls	Rats, Mice, & Field rodents	10-20% Technical material to be mixed with bait

Beta Cyfluthrin 2.45% SC

Crop	Common name of the pest	a.i (gm)	Formulation	Dilution in Water (Litre)	Interval between last application to harvest (days)
Cotton	Bollworm	12.5-18.75	500-750	500-1000	20

Beauveria bassiana 1.15% W.P.

Cotton	Bollworm	-	2000	400	-
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Beauveria bassiana 1% WP

Strain No : NBRI - 9947

Chick pea	Pod borer	-	3 kg.	500	-
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(a) International Panaacea Ltd.

Strain No. IPL/BB/MI/01

Okra	Fruit borer / spotted bollworm	-	3.75-5.0 kg	400-500	-
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Benfuracarb 3% GR

Rice	Stem borer Leaf folder BPH	1000	33000		20
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Benfuracarb 40% EC

Red gram	Pod borer	1000	2500	500	20
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Bifenazate 50% WP

Rose	Two Spotted Mite (Tetranychusurticae)	375	750	3000	Not applicable
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Bifenthrin 10% EC

Cotton	Bollworm	80	800	500	15
	White Fly	80	800	500	15
Rice	Stem borer, leaf folder & Green leaf hopper	50	500	500	21

Bifenthrin 2.5% EC

- (1) **Pre and post construction.** Bifenthrin 2.5%EC shall be applied at 0.05% a.i. conc. i.e. 20.0ml 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.
- (2) **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	10g/cubic meter of wood	400ml formulation per cubic meter of wood
	Dipping	0.025% Solution	Mix 1 lit of formulation in 99 lit of water to make 0.025% Solution
Veneer	Dipping	0.025% Solution	Mix 1 lit of formulation
			in 99 lit of water to make 0.025% Solution
Wood	Dipping/brushing	0.025% Solution	Mix 1 lit of formulation in 99 lit of water to make 0.025% Solution

Bifenthrin 8%SC

Tea	Red Spider mite	40	500	400	11
	Tea mosquito bug	40	500	400	
Apple	Mites	60	7.5ml/lit	10 lit/tree	21

Bromadiolone 0.25% CB

Paddy	Field Rat Large Bandicota Indian house rat	0.005			
	Indian Field mouse Field Rat Indian house rat Field Rat Indian house rat	0.005			

Wheat Gram Groundnut Sugarcane	Field Rat Large bandicota				
	Field rat Large bandicota				
Coconut/ Bamboo	Indian house rat	0.005			
Residential premises	Field Rat Large bandicota	0.005			
	Indian House rat House mouse	0.005			
Poultry Farm	Indian house rat	0.005			
	House mouse	0.005			
	Large bandicota	0.005			

Bromadiolone 0.005% RB

Paddy	Field Rat	0.005			
	Large Bandicota				
	Indian house rat				
	Indian Field mouse				
	Field Rat				

Gram	Indian house rat	0.005			
	Field Rat				
Groundnut	Indian house rat	0.005			
	Field Rat				
Sugarcane	Large bandicota	0.005			
Coconut/ Bamboo	Field rat	0.005			
	Large bandicota				
Residential premises	Indian house rat	0.005			
	Field Rat				
Poultry Farm	Large bandicota	0.005			
	Indian House rat				
	House mouse	0.005			
	Indian house rat				
	House mouse	0.005			
	Large bandicota				

Buprofezin 25% SC

Cotton	White Fly Aphids Jassids Thrips	250	1000	500-750	20
Chilies'	Yellow Mite	75-150	300-600	500-750	5
Mango	Hoppers	0.025%to 0.05%	1-2 ml/litre of water	5-15 litre per tree	20
Grapes	Mealy bugs	250-375	1000-1500	500-1000	7
Rice	BPH, GLH,WBPH	200	800	400-500	20

Carbaryl 5% D.P.

Paddy	Leaf roller/folder	1250	25000		-
	Brown plant hopper	1000	20000		15
Cotton	Spotted bollworm	1000	20000		8
	American bollworm	1000	20000		8
	Pink Bollworm	1000	20000		8
	Jassids	1000	20000		8
	Aphids	1000	20000		8
	Earhead midge	1000	20000		8
	Jassid	1000	20000		8
Cabbage	Cabbage borer	600	20000		8
Cauliflower	Cabbage borer	600	12000		8
			12000		

Carbaryl 10% D.P.

Paddy	Blue jassid	2500	25000	-	-
	Case worm	2500	25000	-	-
	Aphid	2500	25000	-	41
Sorghum	Earhead caterpillar	2000	20000	-	40
	Gram pod borer	2500	25000	-	35
	Plume moth	2000	20000	-	-
Gram	Pod fly	2000	20000	-	-
Tur	Aphid	2500	25000	-	21
	American bollworm	2500	25000	-	21
Cotton	Stem weevil	2500	25000	-	21
	Thrips	2500	25000	-	21
	Til leaf roller	2500	25000	-	-
	Fruit borer	2500	25000	-	-
	Jassids	2500	25000	-	-
	Diamond back moth	2500	25000	-	-
	Army worm	2500	25000	-	-
Sesamum					
Bhindi					
Cabbage					

Carbaryl 4% G.R.

Maize	Stem borer	250	6250	0	-
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Carbaryl 85% W.P.

Maize	Stem borer	1500	1764	500-1000	
Paddy	Green leaf hopper	500	588	500-1000	
Cotton	Jassid	1200	1411	500-1000	
	Pink bollworm	1200	1411	500-1000	
	Spotted bollworm	1200	1411	500-1000	
	Thrips	1200	1411	500-1000	
	White fly	1200	1411	500-1000	

Carbofuran 3% CG

Barley	Aphid	1000	33300		
	Jassid	1250	41600		
	Cyst nematode	1000	33300		
Bajra	Shoot fly	1500	50000		
	Shoot fly	1000	33300		
Sorghum	Stem borer	250	8300		
	Nematode	1000	33300		
	s Pod	1500	50000		
Jute	borer	1000	33300		
Groundnut	White grub	700	23300		
	White grub	500	16600		
	Aphid	1000	33300		
French bean	Jassids	1200	40000		
Potato	White fly	5/tree	166/tree		
	Woolly aphid	360	12000		
	Nematode	1500	50000		
Tomato	Leaf miner	1000	33300		
Apple	Stem borer	1000	33300		
Citrus	Shoot fly	1000	33300		
	Thrips	750	25000		
	Brown plant hopper	750	25000		
Maize	Gall midge, Stem	750	25000		
	borer, G LH,	1500	50000		
	Hispa Nematodes	2000	66600		
Paddy	Mustard leaf miner	1000	33300		
	White fly	1500	50000		
	Root knot nematode	2000	66600		
Mustard	Top borer	1000	33300		
	Jassids	1000	33300		
	Aphid	1000	33300		
	Thrips	1000	33300		
Soybean					
Sugarcane					
Bhindi					
Chillies					

Cabbage	Nematode	1000	50000		
Wheat	Ear cockle nematode	3000	10000		
Brinjal	Cereal cyst nematode	2000	66600		
Banana					
	Root knot nematode	2000	66600		
	Reniform nematode	2000	66600		
Peach	Rhizome weevil				
Mandarins	Aphid				
French bean	Nematode	1 gm per suckers	33/gm suckers		
Cotton	Leaf curl aphid	50/suckers	166/gm suckers		
	Soft greens scale	White grubs	50gm/suckers		
Pea	Grey & Stem weevil	1.5/suckers	50gm/suckers		
Tea	Jassid	1000	33300		
Sweet Pepper	Shoot fly & Aphid				
	Cock chafer grub	0.4/plant	13.3gm/plant		
	Thrips				
		750	23300		
		1000	33300		
		750	25000		
		1000	33.10g/plant		
		0.3/plant	16600		
		500			

Carbosulfan 6% G

Rice	Stem borer				
	Gall midge				
	Green leaf hopper	1000	16700		37
	Leaf folder				
	Stem borer	1000	16700	-	37

Carbosulfan 25% EC

Rice	Green leaf hopper	200-250	800-1000	500-1000	14
	White plant hopper	200-250	800-1000	500-1000	14
	Brown plant hopper	200-250	800-1000	500-1000	14
	Gall midge	200-250	800-1000	500-1000	14
	Stem borer	200-250	800-1000	500-1000	14

Chilli	Leaf folder White aphid	200-250 200-250	800-1000 800-1000	500-1000 500-1000	14 8
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Carbosulfan 25% DS

Cotton	Jassid, Aphids and Thrips	15 gm/kg seed.	60gm/kg seed	Not required	--
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Cartap Hydrochloride 4% Granules

Rice	Stem borer	750	18750	--	--
	Leaf folder	750-1000	18750-25000		
	Whorl Maggot	750-1000	18750-25000		

Cartap Hydrochloride 50% SP

Rice	Stem borer	500	1000	500 – 1000	--
	Leaf folder	500	1000	500 – 1000	

Chlorantraniliprole 18.5% SC

Rice	Stem borer and leaf folder	30	150	500	47
Cabbage	Diamond back Moth	10	50	500	3
Cotton	American bollworm Spotted bollworm Tobacco caterpillar	30	150	500	9
Sugarcane	Termite	100-125	500-625	1000	208
	Early shoot borer	75	375	1000	
	Top borer	75	375	1000	
Tomato	Fruit borer	30	150	500	3
Chilli	Fruit borer	30	150	500	3

Brinjal	Shoot & Fruit borer	40	200	500-750	22
Pigeon pea	Pod borer	30	150	500-750	29
Soybean	Green Semilooper 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	7
Okra	Fruit Borer	25	125	500	5

Chlorantraniliprole 0.4% Gr

Rice	Yellow Stem borer and leaf folder	40	10 000	---	53
Sugarcane	Early shoot borer, top borer	75	18.75	-	147

Chlorfenapyr 10% SC

Cabbage	Diamond back moth (Plutella xylostella)	75-100	750-1000	500	7
Chilli	Mites (Polyphagotarsonemus latus)	75-100	750-1000	500	5

Chlorfluazuron 5.4% EC (w/w)

Cabbage	Diamond back moth, Tobacco leaf eating caterpillar	75	1500	500	7
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Cotton	American bollworm, Tobacco leaf eating caterpillar	75-100	1500-2000	500	10
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Chlorpyrifos 10% G

Rice	Stem borer Leaf roller Gall midge	1000	10000		30
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Chlorpyrifos 20% EC

Paddy	Hispa	250	1250	500-1000
	Leaf roller	375	1875	500-1000
	Gall midge	250	1250	500-1000
	Stem borer	250	1250	500-1000
	Whorl maggot	250	1250	500-1000
Beans	Pod borer	600	3000	500-1000
	Black bug	600	3000	500-1000
	Cut worm	500	2500	500-1000
	Black bug	150	750	500-1000
	Early shoot & stalk borer	250-300	1250-1500	
Gram	Pyrilla			
	Aphid	300	1500	500-1000
	Bollworm	250	1250	500-1000
	White fly	250	1250	500-1000
	Cut worm	250	1250	500-1000
Sugarcane	Aphid	750	3750	500-1000
	Root grub	200	1000	500-1000
	Aphid	225	1125	500-1000
	Shoot & fruit borer	100	500	500-1000
	Diamond back moth	200	1000	500-1000
Ground nut		400	2000	500-1000
	Root grub	1000	5000	500-1000
Mustard				
Brinjal				

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	500-1000	

Termite control

A) Non cropped area:

1) Building (Pre & Post construction treatment @ 1% a.i.)

2) Forestry @ 1% a.i.

B) Cropped area:

Wheat : 3 – 4 ml/kg seed

Barley : 4 – 6ml/kg seed

Gram : 15-30ml/kg seed

Soil treatment

Wheat: 2-3 lit./ha.

Sugarcane: 6.25lit/ha

Chlorpyrifos 50% EC

Rice	Stem borer Leaf roller	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 Chlorpyrifos 50% EC @ 0.5% and 1.0% concentration.

Chlorpyrifos 1.5% DP

Paddy	Stem borer	375	25000		7
	Green leaf hopper	375	25000		7
	Brown plant hopper	375	25000		7
	Leaf folder	375	25000		7
	Gall midge	375	25000		7
	Grass	375	25000		7
	hopper	375	25000		7
	Heliiothis				
Bengal					

Chromafenozide 80% WP

Paddy	Leaf folder, Stem borer	75-100	94-125	500	32
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Clothianidin 50% WDG

Rice	Brown plant hopper	10-12	20-24	500	12
Cotton	Jassids	15-20	30-40	500	20
	White fly	20-25	40-50	500	20
Cotton (Soil drench)	Jassids, Aphids, Thrips & White Fly	100-125	200-250	1000	76
Sugarcane (Soil)	Termite	125	250	1000	310

Coumatetralyl 0.75% w/w

Indoor or outdoor	Rats (<i>rattus rattus</i> , <i>R. norvegicus bandicota bengalensis</i> B. <i>Indica Tetra indica meriones hurrianae</i>)	1 mg per spot	2.5 per spot		
Indoor	Mice	1	2.5		

Coumatetralyl 0.0375% bait

Indoor or outdoor	Rats (<i>Rattus rattus</i> , <i>R. norvegicus bandicota bengalensis</i> B. <i>Indica Tetra indica Meriones hurrianae</i>)	1 mg per spot	2.5 per spot		
Indoor	Mice	1	2.5		

Cyfluthrin 5% EW

Ready to use	Cockroaches, House flies, mosquitoes, in-house.				
	Bed net impregnation		8 ml.	1.0	50 ml diluted solution/ m ²

Cypermethrin 0.25% DP

Brinjal	Fruit & shoot borer	50-60	20000-24000		3
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Cypermethrin 10% EC

Cotton	Spotted bollworm	50-70	550-760	150-1000	7
	American bollworm	50-70	550-760	150-1000	7
	Pink bollworm	50-70	550-760	150-1000	7
	Diamond black moth	60-70	650-760	100-400	7
Cabbage					
Okra Brinjal	Fruit borer	50-70	550-760	150-400	3
	Fruit & shoot borer	50-70	550-760	150-400	3
Sugarcane Wheat Sunflower	Early shoot borer	60-70	650-760	500-700	14
	Shoot fly	50	550	500-800	14
	Bihar hairy caterpillar	60-70	650-760	500-700	14

Cypermethrin 25% EC

Cotton	Bollworms	40-70	160-280	400-800	-
	Jassids	20-30	80-120	200-300	-
	Thrips	20-30	80-120	200-300	-
Bhindi	Shoot & fruit borer	37-50	150-200	500	3
	Jassids	37-50	150-200	500	3
Brinjal	Shoot & fruit borer	37-50	150-200	500	1
	Jassids Epilachna grub	37-50	150-200	500	1

Dazomet Technical

Tobacco nursery	Root-knot nematode, stunt nematode, reniform 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	12.5	125	400-600	30
Rice	Stem borer Leaf folder Green leaf hopper Whorl maggot	15	150	500	13

Deltamethrin 25% tablet

cotton	Bollworms	12.5	50	400-600	30
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Deltamethrin 1.8% EC

Cotton	Bollworms	12.5	781	400-600	30
	sucking insects	10.0	625	400-600	
Rice	Stem borer, Leaf folder	10 – 12.5	625 -780	500	7

Deltamethrin 2.5% WP

Wheat & Rice (Grain & seed in stacks)	Rice weevil	30	1200	1 litre. For 30 sq. M2 - 1 litre/30 M2
	Leaser grain borer	30	1200	
	Khapra beetle	30	1200	
	Red flour beetle	30	1200	
	Saw toothed grain beetle	30	1200	
	Rice moth			
	Almond moth	30	1200	
	As above	30	1200	
Walls, ceilings floors of godowns Public health		30	1200	
	Mosquito	625-1250	25000- 50000	1.5-2.5 litre./50 m ²

Deltamethrin 2.8% EC

Cotton	Bollworm	12.5	500	400-600	-
	Sucking Insects	10.0	400	400-600	
Tea	Thrips	3-4	120-150	400-600	3
	Caterpillar				
	Leaf roller				
	Lopper	10	400	400-600	3
	Shoot & fruit borer	2.5-3.75	100-150	400-600	3
	Jassid	10-15	400-600	400-600	1
Bhindi	Leaf miner	10	400	400-600	1
	Hoppers	12.5	500	400-600	3
Groundnut		0.03-0.05%	0.33to 0.5ml/lit	As per spray fluid requirement	1
Mango	Fruit borer			400-600	
	Pod borer	10-12.5	400-500	400-600	5
Chilli		10-12.5	400-500		3
Chick Pea					

D.D. Mixture

Used against nematodes

Dichlorvos 76% EC

Paddy	BPH	375	470	500-1000	
	Cut worm/	500	627	500-1000	
	Army worm				
	Leaf roller/				
	folder	500	627	500-1000	
	Caterpillar				
	Leaf eating				
	caterpillar	500	627	500-1000	
Wheat	Pyrilla	225-300	282-376	500-1000	
Soybean	Hairy caterpillar				
	Red hairy				
	caterpillar	300	376	500-1000	
Sugarcane	Painted bug	625	783	500-1000	
Castor	Caterpillar	375-750	470-940	500-1000	
Groundnut	Cabbage looper				
	Semi looper				
	Red pumpkin	500	627	500-1000	
Mustard	beetle	500	627	500-1000	
Sunflower	Apple borer	500	627	500-1000	
		500	627	500-1000	
		500	627	500-1000	
Cucurbit		0.05%	940-	1500-2000	
Cashew			1253		

Dicofol 18.5% EC

Tea	Red spider mite	230	1250	250	15-20	
	Scarlet mite	230	1250	250	15-20	
	Pink mite	230	1250	250	15-20	
	Purple mite	230	1250	250	15-20	
	Yellow mite	230	1250	250	15-20	
	Red Spider mite	250-500	1350-2700	500-1000	15-20	
	Red Spider mite	0.05%	2700-4050	1000-5000	15-20	
	Red Spider mite	0.05%	2700-4050	1000-5000	15-20	
	Okra	Red Spider mite,	500-1000	2700-5400	500-1000	15-20
	Citrus	Yellow mite	500-1000	2700-5400	500-1000	15-20
Litchi	Red Spider mite	250-500	1350-2700	500-1000	15-20	
Cotton	Red Spider mite	250-500	1350-2700	500-1000	15-20	
Brinjal						
Bottle & Bitter gourd						

Diafenthiuron 50%WP

Cotton	Whiteflies	300	600	500-1000	21
	Aphids				
	Thrips				
	Jassids				
Cabbage	Diamond Back Moth	300	600	500-750	7
Chilli	Mites	300	600	500-750	3
	Whitefly	300	600	500-750	3
Brinjal					
Cardamom	Thrips Capsule borer	400	800	1000	7

Diflubenzuron 25% WP

Cotton	Tobacco Caterpillar	75-87.5	300-350	500-1000	
	Bollworms	75	300	500-1000	

Ground nut	Tobacco caterpillar, Leaf Webber	100	400	500-1000	
		75-100	300-400	500-1000	

Dimethoate 30% EC

Bajra	Milky weed bug	180-200	594-660	500-1000	
Maize	Stem borer	200	660	500-1000	
	Shoot fly	350	1155	500-1000	
	Midge	500	1650	500-1000	
Sorghum	Pod borer	375	1237	500-1000	
Red gram	Thrips	200	660	500-1000	
	Aphid	200	660	500-1000	
Cotton	Grey weevil	300	990	500-1000	
	Jassids	200	660	500-1000	
	Thrips	200	660	500-1000	
	Jassids	250	825	500-1000	
	Mites	250	825	500-1000	
	Semi looper	350	1155	500-1000	
	White flies	250	825	500-1000	
Castor	Leaf minor	200	660	500-1000	
	Aphid	200	660	500-1000	

Safflower	Sawfly	200	660	500-1000	
	Aphid	200	660	500-1000	
Bhindi	Aphid	700	2310	500-1000	
	Leaf hopper	600	1980	500-1000	
	Jassid	600	1980	500-1000	
Brinjal	Shoot borer	200	660	500-1000	
	Aphid	200	660	500-1000	
	Painted bug	200	660	500-1000	
Cabbage & Cauliflower	Mustard aphid	200	660	500-1000	
	Mite Thrips	300	990	500-1000	
	Thrips	200	660	500-1000	
Chillies	Aphids	200	660	500-1000	
	White fly	200	660	500-1000	
	Stem borer	300	990	500-1000	
Onion	Aphid	0.03%	1485-1980	1500-2000	
	Aphid	0.03%	1485-1980	1500-2000	
Potato	Lace wing bug	0.03%	1485-1980	1500-2000	
Tomato	Black citrus aphid	0.03%	1485-1980	1500-2000	
Apple	Fig jassid	0.03%	1485-1980	1500-2000	
Apricot	Mealy bug	0.03%	1485-1980	1500-2000	
Banana	hopper	0.05%	2475-3300	1500-2000	
			2475-3300	1500-2000	
Citrus	Scale				
	Thrips	750	2475	500-1000	
Fig		400	1320	500-1000	
Mango					
Rose					

Dinotefuran 20% SG

Rice	Brown plant hopper	30-40	150-200	500	10
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Emamectin Benzoate 5% SG

Cotton	Boll worms	9.5-11.0	190-220	500	10
Okra	Fruit & Shoot Borer	6.75-8.5	135-170	500	5
Cabbage	DBM	7.5-10	150-200	500	3
Chilli	Fruit borer, Thrips &	10	200	500	3
Brinjal	Fruit and Shoot borer	10	200	500	3
Red gram	Pod borer	11.0	220	500-750	14
Chickpea	Pod borer	11.0	220	500	14
Grapes	Thrips	11	220	500-1000	5

Endosulfan 2% DP

Arhar	Pod borer	500	25000		8
Gram	Pod borer	500	25000		40
Bhindi	Fruit & shoot	500	25000		4
Brinjal	borer	500	25000		7
	Fruit & shoot				
	borer				

Endosulfan 35%EC

Cotton	Jassids	210	600	500-1000	70
	Aphid	210	600	500-1000	70
	Thrips	280	800	500-1000	70
	White fly	280	800	500-1000	70
	Leaf roller	350-420	1000-1200	500-1000	70
	Bihar hairy caterpillar	140-175	400-500	500-1000	21
	Yellow mites				
Jute	White jassid	175	500	500-1000	21
	Stem borer	175	500	500-1000	21
	Gall midge	210	600	500-1000	21
Paddy	Rice Hispa	210	600	500-1000	21
	Aphid	175	500	500-1000	21
	Stem borer	175	500	500-1000	21
	Pink borer	140	400	500-1000	21
	Aphid	210	600	500-1000	21
	Termite	175	500	500-1000	21
	Pink borer	175	500	500-1000	21
Maize	Aphid	210	600	500-1000	21
	Caterpillar	175	500	500-1000	40
	Aphid	210	600	500-1000	40
	Gall midge	175	500	500-1000	21
Wheat	Aphid	263	750	500-1000	21
	Aphid	140	400	500-1000	21
	Aphid	140	400	500-1000	21
Gram		288-350	750-1000	375-500	7
Mustard	Catterpillars				
Bhindi		288-350	750-1000	375-500	7
Chillies	Helopeltis				
Tea		288-350	750-1000	375-500	7

	Mealy bugs	288-350	750-1000	375-500	7
	Scale insects	288-350	750-1000	375-500	7
	Thrips	288-350	750-1000	375-500	7
	Fush worm	285-350			
	Thrips		814.28-100	500-1000	7
	Helicoverpa				
Mango	Hopper	0.05%	1429	1000	7
	Fruit fly	0.2%	5414	1000	7
	Termite	438-656	1250-1875	1000	-
Ground nut	Jassid	350-437	1000-1249	500-1000	21
	Hairy Caterpillar	350-437	1000-1249	500-1000	21
	Semilooper	420-525	1200-1500	500-1000	21

Endosulfan 4% DP

Cotton	Jassids	210	5250	21
	Aphid	210	5250	21
	Thrips	280	7000	21
	White flies	280	70000	21
	Leaf roller	350-420	8750-10500	21
	Pink Boll worm	350-420	8750-10500	21
	Bihar hairy caterpillar	140-175	3500-4400	21
	Yellow mites			
	White jassid	175	4400	
Jute	Stem borer	175	5250	21
	Gall midge	210	5250	21
	Rice Hispa	210	5250	21
Paddy	Aphid	210	5250	21
	Stem borer	140-175	3500-44	21
	Pink borer	140-210	3500-5250	21
	Aphid	140-210	3500-5250	21
	Termite	140-175	3500-4400	21
	Pink borer	140-210	3500-5250	21
	Aphid	140-210	3500-5250	21
Maize	Caterpillar	140-175	3500-4400	21
Wheat	Peas	140-210	3500-5250	21
Gram	semilooper	175	4400	21
	Aphid			21
	Gall midge			
Mustard	Aphids	140-175	3500-4400	
	Aphids /	175	4400	21
	Jassids	140-175	3500-4400	21
Groundnut	Aphids /	140-175	3500-4400	21
Bhindi	Jassids			21
	Aphids /			
Onion		140-175	3500-4400	
				21
Chillies		140-175	3500-4400	
				21

Potatoes	Jassids Aphids / Jassids	140-175	3500-4400		21
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Emamectin bevoate 5% sg(Label expansion)

Grapes	Thrips	11	220	500-1000	5
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Ethion 50% EC

Tea	Red spider mites, purple mites & yellow mite, thrips& scale White fly	250	500	500-1000	03
Cotton	Bollworms Mites & thrips Pod borer	750-1000 1000 750-1000	1500-2000 2000 1500-2000	500-1000 500-1000 500-1000	- 25 05
Chilli		500-750	1000-1500	500-1000	21
Pigeon pea Soybean	Pod borer	500-750	1000-1500	500-1000	21
	Girdle beetle & stem fly	750	1500	500-1000	30

10.Ethiprole40 + Imidacloprid 40%WG

Rice	BPH WBPH	37.5+37.5 50+50	93.75 125	375 375	15
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Ethofenprox 10%EC

Rice	BPH, Stem borer Leaf folder Gall midge, Whorl maggot, Green Leaf hopper, White backed hopper	50-75	500-750	500	15
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Ethylene Dichloride + Carbon Tetrachloride 3:1

Crop	Common name of the pest	Condi tions	Weight of vol.	Exposure period	Permissi ble conc. in air (ppm)	Aeration/ Waiting
Stored whole cereals Millets Pulses & seed Grains	Rice weevil Lesser grain Borer Khapra Beetle Rust red flour beetle Pulse beetle Dried fruit Beetle	Air tight cover	300-400gm/m ³ (230-307 ml)	48-72 hr. for cover fumigation	10 ppm	Partial aeration for at least 1 hr. followed by 24 hr. complete aeration waiting period of 24 hr.
Godown fumigation	Do	Do	150 gm/m ³	7 days	Do	Partial aeration for at least 1 hr. followed by 24 hr. complete aeration waiting period of 24 hr.

Fenazaquin 10% EC

Tea	Red spider mite	100	1000	400-600	7
	Pink mite	100	1000	400-600	7
	Purple mite	100	1000	400-600	7
	Scarlet mite	125	1250	400-600	7
Chilli	Yellow mite	125	1250	400-600	10
Apple	Red spider mite and two spotted mite	40	400	1000	30

Okra	Redspider mite	125	1250	500	7
Brinjal	Redspider mite	125	1250	500	7
Tomato	Twospotted spidermite	125	1250	500	7

Fenobucarb (BPMC) 50% EC

Rice	Brown Plant Hopper	250-750	500-1500	500	30
	Green Leaf Hopper	250-750	500-1500	500	30

Fenpropathrin 10% EC

Cotton	Pink boll worm	75-100	750-1000	750-1000	14
	Spotted boll worm	75-100	750-1000	750-1000	14
	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	7
Brinjal	Whitefly, Shoot and Fruit borer, Mites	75-100	250-340	750-1000	10
Okra	Whitefly, Shoot and Fruit borer, Mites	75-100	250-340	750-1000	7
Tea	Mites	50-60	165-200	400-500	7

Paddy	Yellow Stem borer, Leaf folder	100	333	500	30
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Fenpyroximate 5% EC

Tea	Red spider mite	15-30	300-600	400-500	7
	Pink mite	15-30	300-600	400-500	
	Purple mite	15-30	300-600	400-500	
Chilli	Yellow mite	15-30	300-600	300-500	7
Coconut	Eriophyde mite	0.5gm.tree (root feeding)	10ml/lit.	As required	
		0.056 – 0.075gm/tree	0.75 – 1ml/ lit.		

Fenvalerate 20% EC

Cauliflower	Diamond back moth	60-75	300-375	600-750	7
	American boll worm	60-75	300-375	600-750	7
	Aphids	60-75	300-375	600-750	7
	Jassid	60-75	300-375	600-750	7
Cotton	Boll worm	75-100	375-500	700-900	7
	Aphids	25-40	125-200	250-400	7
	Jassids	25-40	125-200	250-400	7
	s Thrips	25-40	125-200	250-400	7
Brinjal	Shoot & fruit borer	75-100	375-500	600-800	5
	Aphids	75-100	375-500	600-800	5
Okra	Shoot & fruit borer	60-75	300-375	600-750	7
	Jassids	60-75	300-375	600-750	7

Fenvalerate 2% Conc.

Cotton	Spotted & Spiny, Pink American/Egyptian boll worm	80-100	4000-5000		
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Fenvalerate 0.4% DP

Cotton	Spotted Bollworm Pink	80-100	20000-25000	-	7
		80-100	20000-25000	-	7
	bollworm				

Fipronil 5% SC

Rice	Stem borer	50-75	1000-1500	500	32
	Brown plant hopper				
	Green leaf hopper				
Cabbage Chillies	Rice leaf hopper				
	Rice gall midge				
	Whorl maggot				
	White backed plant hopper				
Cabbage Chillies	Diamond back moth	40-50	800-1000	500	7
	Thrips, Aphids, fruit borers	40-50	800-1000	500	7
Sugarcane	Early shoot borer & root borer	75-100	1500-2000	500	9 months
Cotton	Aphid, Jassid, Thrips, White fly Boll worms	75-100	1500-2000	500	6
		100	2000	500	7

Fipronil 0.3% GR

Rice	Stem borer Brown plant hopper Green leaf hopper Rice leaf hopper Rice gall midge Whorl maggot White backed plant hopper	50-75	16670-25000		32
Sugarcane	Early shoot borer Root borer	75-100	25000-33300		9

Fipronil 80%WG

Rice	Stem borer Leaf folder	40-50 40-50	50 – 62.5 50 - 62.5	375 -500 375 -500	19
grapes	Thrips	40-50	50-62.5	750-1000	10

Flonicamid 50% WG

Rice	Brown plant hopper, white backed plant hopper, Green leaf hopper	75	150	500	36
Cotton	Aphids, Jassids, Thrips & Whiteflies	75	100	500	25

Flubendiamide 20% WG

Rice	Stem borer Leaf borer American bollworm	25	125	500	30
Cotton		50	250	500	30
Tomato	Fruit borer	48	100	375-500	5
Cabbage	Diamond back moth	18.24	37.5-50	375-500	7

Flubendiamide 39.35% M/M SC

Rice	Stem borer Leaf folder	24	50	375-500	40
Cotton	bollworms (American &	48-60	100-125	375-500	25
Pigeon pea	Pod borer	48	100	500	10
Blackgram	Fruit borer	48	100	500	11
Chilli	Fruit borer	48-60	100-125	500	7
Tomato	Fruit borer	48	100	375-500	5
Cabbage	Diamond moth back	18.24	37.5-50	375-500	7

Flufenoxuron 10% DC

Cabbage	Diamond back moth Mites	40	400	500-1000	7
Rose		50	500	500-1000	6

Flumite 20% SC / Flufenzine 20%SC

Brinjal	Mite	80-100	400-500	500-1000	5
Tea	Pink mite Purple mite	80-100	400-500	500-1000	7
	Red spider	100-120	500-600	500-1000	7

Fluvalinate 25% EC

Cotton	Aphids	50-100	200-400	500-1000	7
	Jassids	50-100	200-400	500-1000	7
	Red cotton bug	50-100	200-400	500-1000	7
	Bollworm	50-100	200-400	500-1000	7

Hexythiazox 5.45% w/w EC

Tea	Scarlet mite Red spider mite	15-25	300-500	400/ha	5
Chilli	Yellow mites	15-25	300-500	625/ha	3

Imidaclopride 70% WG

Cotton	Jassids, Aphids, Thrips	21 - 24.5	30 - 35	375 - 500	7
Rice	Brown Plant Hoppers, White Backed Plant Hoppers	21 - 24.5	30 - 35	300 - 375	7
Okra	Jassids, Aphids, Thrips	21 - 24.5	30 - 35	375 - 500	3
Cucumber	Aphids & Jassids	24.5	35.0	500	5

Imidacloprid 48% FS

Per 100kg seed

Cotton	Aphids, Whitefly, Jassids, Thrips	300 – 540	500 – 900		
Okra	Jassid, Aphid	300 – 540	500– 900		
Sunflower	Jassid, Whitefly	300 – 540	500 – 900		
Sorghum	Shoot fly	720	1200		

Pearl millet	Shoot fly and termites	720	1200		
Soybean	Jassids	75	125	-	-

Imidacloprid 70% WS

Per 100kg seed

Cotton	Aphids, Whitefly, Jassids, Thrips	350 – 700	500 – 1000		
Okra	Jassid, Aphid	350 – 700	500 – 1000		
Chillies	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 shoot fly	700	1000		
Mustard	Mustard sawfly & painted bug	490	700		

Imidacloprid 30.5% m/m SC

Cotton	Aphid, Jassid Thrips	21-26.25	60-75	500 - 750	26
Rice	Brown plant hopper White backed plant hopper	21-26.25	60-75	500-750	37

For non- agricultural use:- For protecting building from termite attack at pre and posts construction stages, apply **Imidacloprid 30.5% m/m SC @ 0.075% a.i.** concentration.

Imidacloprid 17.8% SL

Cotton	Aphid, Whitefly, Jassid Thrips	20 - 25	100 - 125	500 - 700	40
Paddy	BPH, WBPH, GLH	20 - 25	100 - 125	500 - 700	40
Chilly	Jassid, Aphid, Thrips	25 - 50	125-250	500-700	40
Sugarcane	Termite	70	350	1875	45
Mango	Hopper	0.4 - 0.8 g/tree	2-4 ml/tree	10 litre	45
Sunflower	Jassid, Thrips, Whitefly	20	100	500	30
Okra	Aphid, Jassid, Thrips	20	100	500	3
Citrus	Leaf miner, Psylla	10	50	Depending on size of tree & Protection equipment used	15
Ground nut	Aphid , Jassid	20-25	100-125	500	40
Tomato	Whitefly	30-35	150-175	500	3
Grapes	Flea beetle	0.06-0.08	300-400	1000	32

Imidacloprid 0.3% GR

Paddy	Stem borer	0.045	15.0 kg	-	26
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Indoxacarb 14.5% SC

Cotton	Bollworm	75	500	600-1000	16
Cabbage	Diamond back Moth	30-40	200-266	400-750	7
Chillies	Fruit borer	50-60	333-400	300-600	5

Tomato	Fruit borer	60-75	400-500	300-600	5
Pigeon pea	Pod borer complex	50-60	353-400	500-1000	15

Indoxacarb 15.8% EC

Cotton	Bollworm	75	500	500-1000	14
Cabbage	Diamond back moth	40	266	500-1000	5
Pigeon pea	Pod borer complex	50	333	500-700	12
Rice	Leaf folder Piller Green semilooper stem fly	30	200	500	14
Soybean	Tobacco catter Piller Green semilooper stem fly	30	333	500	31

Lambda-Cyhalothrin 4.9% CS

Cotton	Bollworms	25.0	500	500	21
Paddy	Stem borer, Leaf Folder	12.5	250	500	15
Brinjal	Shoot & fruit borer	15	300	500	5
Okra	Fruit borer	15	300	500	5
Tomato	Furit borer	15	300	500	5
Grapes	Thrips & Flea beetle	12.5	250	500-1000	7
Chilli	Thrips & pod borer	25	500	500	5

Lambda-Cyhalothrin 2.5% EC

Cotton	Bollworms Jassids Thrips	15-25	600-1000	400-600	21
Rice	Leaf folder Stem borer GLH Gall midge Hispa, Thrips	12.5	500	400-600	15

Lambda-Cyhalothrin 5% EC

Cotton	Bollworms Jassids Thrips	15-25	300-500	400-600	21
Rice	Leaf folder, stem Borer, GLH, Gall Midge, Hispa, Thrips	12.5	250	400-600	15
Brinjal	Shoot & fruit borer	15	300	400-600	4
Tomato	Fruit borer	15	300	400-600	4
Chilli	Thrips, mite, pod Borer	15	300	400-600	5
Pigeon pea	Pod borer, pod fly	20-25	400-500	400-600	15
Onion	Thrips	15	300	300-400	5
Bhindi	Jassids, shoot borer	15	300	300-400	4
Chickpea	Pod borer	25	500	300-400	6
Ground nut	Thrips, leaf Hopper, leafminer	10-15	200-300	400-500	10
Mango	Hoppers	0.0025- 0.005%	0.5-1.0 ml/l of water		7

**Lindane 20% EC

Wood /forest					
Wood	Termite	50/ sq.m	250 sq.m	5	
Building					
Pre- const.	Termite	50/ sq.m	250 sq.m	5	
Post-const.	Termite	50/ sq.m	250 sq.m	5	

****Lindane 6% Graules**

Sugarcane	Termite	1200-1500	20000-25000		25
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Lufenuron 5.4% EC

Cabbage	Diamond back moth	30	600	500	14
Cauliflower	Diamond back moth	30	600	500	5
Pigeon pea	Pod borer podfly	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	5

Magnesium Phosphide Degesch plates

Recommended for fumigation of un-manufactured tobacco for export, as per importing Country requirement.

Malathion 5% DP

Paddy	Rice Hispa	1250	25000	-	-
Sorghum	Earhead midge	1000	20000	-	At 90% emergence of ear head

Malathion 50% EC

Paddy	Rice Hispa	575	1150	500-1000	
Sorghum	Earhead midge	500	1000	500-1000	
Pea	Pod borer	750	1500	500-1000	
Soybean	Leaf weevil	750	1500	500-1000	

Cotton	Aphid	500	1000	500-1000	
	Jassids	500	1000	500-1000	
	Thrips	500	1000	500-1000	
	White fly	500	1000	500-1000	
Castor	Jassids	750	1500	500-1000	
	Semi looper	1000	2000	500-1000	
Groundnut	Leaf miner	625	1250	500-1000	
Mustard	Saw fly	750	1500	500-1000	
	Aphid	500	1000	500-1000	
Sunflower	White fly	500	1000	500-1000	
Bhindi	Aphid	500	1000	500-1000	
	Jassids	625	1250	500-1000	
	Spotted boll	750	1500	500-1000	
	Worm				
Brinjal	Mites	750	1500	500-1000	
Cabbage	Mustard aphid	750	1500	500-1000	
Cauliflower	Head borer	750	1500	500-1000	
Radish	Stem borer	750	1500	500-1000	
Turnip	Tobacco caterpillar	600	1200	500-1000	
Tomato	White fly	750	1500	500-1000	
Apple	Sanjose scale	0.05%	1500-2000	1500-2000	
	Wooly aphid	0.05%	1500-2000	1500-2000	
Mango	Mealy scale	0.075%	2250-3000	1500-2000	
	Mango hooper	0.075%	2250-3000	1500-2000	
Grape	Beetle	500	1000	1500-2000	

Metaflumizone 22% SC

Cabbage	Diamond back moth	165-220	750-1000	500	3
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Metaldehyde

Crop	Name of pests	Dose
Citrus, Rubber, Paddy, Tea, Vegetables	Snails, Slugs, Giant African Snails	Available in ready to use 2.5% Dust.

Methomyl 40% SP

Cotton	Bollworm	300-450	750-1125	500-1000	10
Pigeon	Pod borers	300-450	750-1125	500-1000	7
Pea					
Tomato	Pod borers	300-450	750-1125	500-1000	5/6
Chilli	Pod borers & flies	300-400	750-1125	500-1000	5/6
Groundnut	Spodoptera litura	300-350	750-850	500	7
Grapes	Mealy bug	500	1250	500-1000	10

Methyl Bromide 98% w/w

Stored Whole Cereals and Seed Millet Pulses	Rice Weevil (S.O) Lesser Grain Bore, Khapra Beetle (T.g), Rust Red Flour Beetle, Saw Drug Store Beetle ,	Air tight cover	24 gms/m3	6-8 hours waiting Period 24 hrs.	As when residues not to exceed 25 ppm
Mild Products : Flour	Khapra Beetle (T.g), Rust Red Flour Beetle, lesser grain borer	Air tight cover	24 -32 gms/m3	12-24 hours waiting Period 72 hrs.	As when residues not to exceed 25 ppm
Dry Fruits, Nuts Spices & Oil Seeds	Rust Red Flour Beetle	Air tight cover	24 -32 gms/m3	24 hrs waiting period 72 hrs	As when residues not to exceed 25 ppm

Methyl Parathion 2% DP

Paddy	Ear Head Caterpillar,	500	25000	-	At infestation Post flowering ear head stage
	Leaf roller	500	25000		
	Ear head bug	500	25000		
Cotton	Aphid	300	15000	-	At infestation
	Leaf hopper	500	25000		
	Thrips	500	25000		

Pulses				-	
Blackgram					At infestation
Green gram,	Pod borer	500	25000		
Soybean	Pod borer	500	25000		
	Leaf miner	400	20000		
Oil seeds					
Mustard,	Sawfly,	300	15000		
Groundnut	Aphids	300	15000		
	Leaf miner	500	25000		

Methyl Parathion 50% EC

Paddy	Gall midge	750	1500	500-1000	-
	Green leaf hopper	500	1000	500-1000	-
	Hispa				
	Leaf roller	250	500	500-1000	-
	Stem borer, & Whorl maggot	400	800	500-1000	-
		500	1000	500-1000	-
	Cutworm				
		300	600	500 1000	
Cotton	Aphid	500	1000	500-1000	-
	Leaf hopper	250	500	500-1000	-
	Thrips	500	1000	500-1000	-

Milbemectin 1% EC

Rose	Two spotted spider mite	4.5	450	1000	5
Chilli	Yellow /white mite	3.25	325	500	7

15% SG

Cotton	Aphids, Jassids, Thrips & Whiteflies	200	1333	500-1000	58
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36% SL

Paddy	BPH	500	1250	500-1000	-
	GLH	250	625	500-1000	-
	Leaf roller / folder	250	625	500-1000	-
	Yellow stem borer	500	1250	500-1000	-
Maize	Shoot fly	250	625	500-1000	-
Bengal gram	Pod borer	500	1250	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	250	625	500-1000	
	Pod borer	500	1250	500-1000	
	Pod fly	250	625	500-1000	
Sugarcane	Shoot borer	600-800	1500-2250	500-1000	
	Mearly bug	600	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	175	437	500-1000	
	Leaf hopper	175	437	500-1000	
	Grey weevil	500	1250	500-1000	
	Thrips	175	437	500-1000	
	White fly	150	375	500-1000	
Caster	Capsule borer	175	437	500-1000	
Mustard	Aphids	150	375	500-1000	
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	0.04%	1500-2000	500-2000	20 lit./trees
	Hopper	0.04%	1500-2000	500-2000	20 lit./trees
	Mealy bug	0.04%	1500-2000	500-2000	20 lit./trees
	Shoot borer	0.04%	1500-2000	500-2000	20 lit./trees

Coconut	Black headed Caterpillar	3.5 -7gm per tree	8.75-17.5ml per tree	Lower dose to be applied on plants below 9 years & higher on more than 9 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	5
Tomato	Fruit borer	75	750	500-1000	1-3
Chilli	Fruit borer Tobacco, Caterpillar	33.5	375	500	3
Bengal gram	Pod borer	75	750	500	7

Novaluron 8.8% SC

Cotton	American boll worm, Tobacco caterpillar	100	1000	500-1000	20
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Nuclear Polyhedrosis Virus of Helicoverpa Armigera 0.43% AS

Cotton	Helicoverpa Armigera		2700	400-600	-
Tomato	Helicoverpa Armigera		1500	400-600	-

NPV of Helicoverpa armigera 2.0% AS

Pigeon pea	Pod borer		250-500	500-750	-
Chick pea	Pod borer		250-500	500-750	-
Tomato	Fruit borer		250-500	500	-

NPV of *Helicoverpa armigera* 2.0% AS
(A) Ganesh bio-control system

Strain No. GBS/HNPV -01

Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Gram	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-

(B) Bio-tech international

Strain No. BIL/HV-9

Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500	-

(b) Indore Bio-tech input & research

Strain No. IBL-17268

Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	500-1000 ml	500-750	-

NPV of *Helicoverpa armigera* 0.43% AS

Strain No. BIL/HV-9

Cotton	<i>Helicoverpa armigera</i>	-	2700 ml	400-600	-
Tomato	<i>Helicoverpa armigera</i>	-	1500 ml	400-600	-

NPV of *Spodoptera litura* 0.5%AS

Tobacco	<i>Spodoptera litura</i>	-	1500	400-600	-
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Oxydemeton – methyl 25% EC

Paddy	Blue leaf hopper White leaf hopper	125 250	500 1000	500-1000 500-1000	
Maize	Shoot fly	250	1000	500-1000	
Sorghum	Shoot fly	250	1000	500-1000	
Cotton	Aphid Jassid/leaf hopper	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	White fly Jassid/ Leaf beetle	250 400	1000 1600	500-1000 500-1000	
Chilli	Aphid Mites Thrips	400 500 250	1600 2000 1000	500-1000 500-1000 500-1000	
Onion	Thrips	300	1200	500-1000	
Tomato	White fly	250	1000	500-1000	
Potato	Aphids	250	1000	500-1000	
Apple	Sanjose scale Wooly Aphid	0.07% 0.025%	4200-5600 1500-2000	1500-2000 1500-2000	
Banana	Tingyi bug Aphids	0.025% 0.05%	1500-2000 3000-4000	1500-2000 1500-2000	
Citrus	Black citrus aphids Psylla/ White fly	0.02% 0.025%	1200-1600 1500-2000	1500-2000 1500-2000	
Mango	Hoppers	0.025%	1500-2000	1500-2000	
Peaches	Leaf curl aphids	0.025%	1500-2000	1500-2000	
Coffee	Green bug Leaf minor	625 1000	2500 4000	500-1000 500-1000	
Tobacco	White fly/ Aphids	250	1000	500-1000	

Permethrin 25% EC

Cotton Okra	Bollworms	100-125	400-500	1000	
	Fruit borer	100-125	400-500	750-1000	
	Aphid	100-125	400-500	750-1000	
	Jassids	100-125	400-500	750-1000	
Cauliflower	Diamond black moth	50-125	200-500	750-1000	
Citrus	Leaf miner	100-150	0.01% - 0.015% 400-600	1000	

Phenthoate 2% DP

Sorghum	Red spider mite Pink mite Purple mite Scarlet mite	400	20000	-	90% emergence of earhead
Safflower	Aphid	400	20000	-	-

Phenthoate 50% EC

Paddy	Rice case worm	500	1000	500-1000	-
Black gram	Bihar hairy caterpillar	400	800	500-1000	-
Green gram	Pod borer	1000	2000	500-1000	
	Bihar hairy caterpillar	400	800	500-1000	
	Pod borer	1000	2000	500 1000	
Cotton	American bollworm	1000	2000	500-1000	-
		1000	2000	500-1000	
	Spotted bollworm	1000	2000	500-1000	
	Pink bollworm				
Ground nut	Leaf Webber	500	1000	500-1000	-
Cardamom	Thrips	250	500	500-1000	-

Phorate 10% CG

Bajra	Shoot fly White grub	3000 2500	30000 25000	-	-
Barley Maize	Aphid Shoot fly Stem borer Gall fly	1000 3000 1000 1000	10000 30000 10000 10000	-	-
Paddy	Hispa Leaf hopper Plant hopper Stem borer	1000 1000 1000 1000	10000 10000 10000 10000		
	Root weevil	750	7500		
Sorghum	Shoot fly Aphids White grub	1875 1875 2500	18750 18750 25000	-	-
Wheat	Shoot fly	1875	18750	-	-
Black gram	Stem fly White fly	1000 1000	10000 10000	-	-
Green gram	Stem fly Jassids	1000 1500	10000 15000		
Pigeon pea	Jassids Stem fly	1500 1000	15000 10000		
Soybean	Stem fly	1500	15000		
Sugarcane	Top borer White grub	3000 2500	30000 25000		
Cotton	Aphid Jassids Thrips White fly	1000 1000 1000 1000	10000 10000 10000 10000		
Groundnut	Aphid Leaf minor White grub	1500 1500 2500	15000 15000 25000		
Mustard	Mustard aphid Painted bug	1000 1500	10000 15000		
Seasamum	Jassids White fly	1000 1000	10000 10000		

Brinjal	Aphid	1500	15000		
	Jassids	1500	15000		
	Lace wing bug	1500	15000		
	Red spider mite	1500	15000		
	Thrips	1000	10000		
Cauliflower Chillies	Aphid	2000	20000		
	Aphid	1000	10000		
	Mite	1000	10000		
	Thrips	1000	10000		
Potato	Aphid	1000	10000		
Tomato	White fly	1500	15000		
Apple	Woolly aphid	10-15/plant	100-150gm/plant		
Banana	Aphid	2.5/plant - 1.25/plant	25gm/plant - 12.5/plant		
Citrus	Leaf minor	1500	15000		

Phosalone 35% EC

Barely	Aphid	500	1428	500-1000	
Paddy	Brown plant hopper	500	1428	500-1000	
	Green hopper				
	Leaf folder/roller	500	1428	500-1000	
	Stem borer	500	1428	500-1000	
	Whorl maggot	500	1428	500-1000	
Sorghum	Ear head midge	400	1143	500-1000	
	Jassids	300	857	500-1000	
	Pink bollworm	700	2000	500-1000	
Cotton	Red spider mite	600	1714	500-1000	
	Spotted bollworm	600	1714	500-1000	
	Red spider mite	350	1000	500-1000	
Jute	Red spider mite	350	1000	500-1000	
Ground nut	Leaf Webber	500	1428	500-1000	

Bhindi	Fruit borer	525	1500	500-1000	
Brinjal	Fruit borer	500	1428	500-1000	
Cabbage	Aphid	500	1428	500-1000	
Chillies	Aphid	700	2000	500-1000	
	Mite	450	1285	500-1000	
	Thrips	700	2000	500-1000	
Tomato	Fruit borer	450	1285	500-1000	
Tea	Aphid	360	1028	500-1000	
	Pink mite	360	1028	500-1000	
	Purple mite				

Phosalone 4% DP

Sorghum	Earhead midge,	1000	25000	-----	----
Cotton	Jassids and Thrips	800	20000	---	--
	Spotted bollworm	1000	25000		
Ground nut	Leaf Webber	800	20000	--	--

Phosphamidon 40% SL

Paddy	Stem borer	500	1250	500	30
	Leaf borer	500	1250	500	
	Green leaf hopper	350	875	500	
	Brown plant hopper	350	875	500	
	White backed plant hopper	350	875	500	
Brinjal	Jassid	250-300	625-750	500	10
	Aphid	250-300	625-750	500	
	White fly	250-300	625-750	500	
Mustard	Aphid	200	500	500	-

Profenofos 50% EC

Tea	Red spider mite, Pink mite, Tea mosquito bug Looper caterpillar Thrips, Jassid	400-500	800-1000	400	7
Cotton	Bollworm Jassids Aphids Thrips Whiteflies	750-1000 500	1500-2000 1000	500-1000 500-1000	15 15

Propargite 57% EC

Tea	Red spider mite Pink mite Purple mite Scarlet mite	430-612	750-1250	400	7
Chillies	Mite	850	1500	500-625	7
Apple	European red mite Two spotted mite	2.85-5.7 /tree	5-10 ml/tree	10 lit/tree	9
Brinjal	Two spotted spider mite	570	1000	400	6

Pyridalyl 10% EC

Cotton	Bollworms	75-100	750-1000	500-750	7
Okra	fruit & shoot borer	50-75	500-750	500-750	3
Cabbage	Diamond back moth	50-75	500-750	500-750	3

Quinalphos 25% Gel

Chillies	Aphid,	250	1000	500-1000	
Paddy	Brown plant hopper	250	1000	500-1000	
	Leaf roller				
	Stem borer	250	1000	500-1000	
	Hispa	250	1000	500-1000	
		250	1000	500-1000	

Quinalphos 5% Granule

Sugarcane	Early shoot borer	250	5000	-	
Sorghum	Stem borer	750	15000	-	
Paddy	Gall midge	250	5000	-	
	Stem borer	250	5000	-	

Quinalphos 20% AF

Rice	Brown plant hopper , Green leaf hopper, Leaf folder, Stem borer	250-300	1250-1500	750-1000	40
Okra	Shoot/Fruit borer	250-300	1250-1500	750-1000	7
Cotton	Bollworms, American bollworm , Pink Bollworm , Spotted bollworm	350-500	1750-2500	750-1000	7
Brinjal	Shoot/Fruit borer ,Jassids, Epilachne beetle	300-350	1500-1750	750-1000	7
Tomato	Fruit borer	300-350	1500-1750	750-1000	7
Tea	Hopper caterpillar	0.05%	1000	400	7
Tur	Pod borer	500	2500	750-1000	30
Ground nut	Spodoptera	250-375	1250-1775	750-1000	30

Quinalphos 25% EC

Paddy	Brown plant hopper,	375	1500	500-1000	40
	Hispa/bune beetle, Leaf roller,	500	2000	500-1000	40
	Stem borer	250	1000	500-1000	40
		325	1300	500-1000	40
Sorghum	Mite	375	1500	500-1000	
	Shoot fly	375	1500	500-1000	
Wheat	Aphid	250	1000	500-1000	
	Ear head				
	Caterpillar				
	Mite	400	1600	500-1000	
		400	1600	500-1000	
Bengal gram	Pod borer	250	1000	500-1000	
Black gram	Bihar hairy	375			
	Caterpillar		1500	500-1000	
French bean	Stem fly	250	1000	500-1000	
Red gram	Pod borer	350	1400	500-1000	30
	Pod fly	350	1400	500-1000	30
Soybean	Leaf weevil	250	1000	500-1000	
Sugarcane	Black bug	500	2000	500-1000	
	Leaf Hopper	300	1200	500-1000	
	Shoot borer	500	2000	500-1000	
Jute	Leaf roller	375	1500	500-1000	
	Semi looper	375	1500	500-1000	
	Yellow mite	375	1500	500-1000	
Groundnut	Leaf Hopper	350	1400	500-1000	30
	Leaf miner	250	1000	500-1000	30
	Thrips	350	1400	500-1000	30
Mustard	Sawfly	300	1200	500-1000	
Sesamum	Leaf webber	500	2000	500-1000	
	Jassids	500	2000	500-1000	
Bhindi	Fruit borer	200	800	500-1000	
	Leaf hopper	250	1000	500-1000	
	Mite	250	1000	500-1000	
Brinjal	Leaf hopper	250	1000	500-1000	
	Shoot/Fruit borer	375	1500	500-1000	

Cabbage	Aphid Stem borer	250 500	1000 2000	500-1000 500-1000	
Cauliflower	Stem borer	500	2000	500-1000	
Chillies	Aphid Mite	250 375	1000 1500	500-1000 500-1000	
Onion	Thrips	300	1200	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	
	Citrus butterfly	0.025%	1500- 2000	500-1000	
Mango	Mango bud mite	0.05%	3000- 4000	500-1000	
Pomegranate	Scales	0.08%	4800- 6400	500-1000	
Cardamom	Thrips	0.03%	600- 1200	500-1000	30
Coffee	Green bug	625	2500	500-1000	
Tea	Thrips	190	760	500-1000	7

Quinalphos 1.5% DP

Sorghum	Earhead bug Earhead midge	375 400	25000 26600	At milk stage	
Paddy	Brown plant hopper	300	20000		40
Gram	Pod borer	350	23300	At pod formation	
Red gram	Pod borer	350	23300		30
Soyabean	Leaf weevil	250	16600		
French bean	Stem fly	300	20000		

Cotton	Aphid	300	20000	From square formation onwards	
	Jassids	300	20000		
	Thrips	300	20000		
	Bollworm	450	30000		
Ground nut	Thrips	350	23300		30
	Jassids	350	23300		30
	Red hairy Caterpillar	375	25000		30
Safflower	Aphid	300	20000		
Chillies	Aphid	300	20000		

Sodium Cyanide

Places	Name of pest	Dose
Agriculture land & Grain storage	Rats, & Soil insects	-

Spinosad 45.0% SC

Cotton	American bollworm	75-100	165-220	500	10
Chillies	Fruit borer, Thrips	73	160	500	3
Red gram	Pod borer	56-73	125-162	800-1000	47

Spinosad 2.5% SC

Cabbage & Cauliflower	Diamond back moth	15.0-17.5	600-700	500	3
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Spiromesifen 22.9% SC

Brinjal	Red spider mite	96	400	500	5
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Apple	European Red Mite & Red Spider mite	72(0.03%)	300	1000	30
Chilli	Chilli Yellow Mite	96	400	500 -750	7
Tea	Red Spider mite	96	400	400	7

Okra	Red spider mite	96-120	400-500	500	3
Tomato	Whiteflies & Mites	150	625	500	3

Thiaclopid 21.7% SC

Cotton	Aphid, Thrips, Jassid	24 – 30	100 – 125	500	52
	Whitefly	120 – 144	500 – 600	500	52
Paddy	Stemborer	120	500	500	30
Chilli	Thrips	54-72	225-300	500	5
Tea	Mosquito bug	90	375	400	7
Brinjal	Shoot & fruit borer	180	750	500	5
Soybean	Girble beetle	180	750	500	17

Thiodicarb 75% WP

Cabbage	Diamond back moth	750 to 1000	1000 to 1330	500	7
Cotton	Bollworms	750	1000	500	30
Brinjal	Shoot & Fruit borer	470 to 750	625 to 1000	500	6
Chilli	Fruit borer	470 to 750	626 to 1000	500	6
Black gram	Pod borer	468-562	625-750	375-500	17

Thiamethoxam 30% FS

Cotton	Aphid, whiteflies, Jassids	3	10.0		This is used as seed dresser
Sorghum	Shoot fly	3	10.0		
Wheat	Termites	1	3.3		
Soybean	Stem fly	3.0	10.0	-	-
Chilli	Thrips	2.1	7.0	-	-

Thiamethoxam 70% WS

Cotton	Aphid, Thrips whiteflies, Jassids	300	430		-
Okra	Aphids	200	286		-
	Jassids				

Thiamethoxam 25% WG

Rice	Stem borer Gall midge Leaf folder BPH WBPH GLH Thrips	25	100	500-750	14
Cotton	Jassid Aphid Thrips White flies	25	100	500-750	21
		50	200	500-750	21
Okra	Jassid Aphid White flies	25	100	500-1000	5
Mango	Hoppers	25	100	1000	30
Wheat	Aphid	12.5	50	500	21
Mustard	Aphid	12.5- 25.0	50-100	500-1000	21
Tomato	White flies	50	200	500	5
Brinjal	White flies	50	200	500	3
Tea	Mosquito bug	25	100	400-500	7
Potato foliar application	Aphids	25	100	500	77
Soil drench	Aphids	50	200	400-500	77
Citrus	Psylla	25	100	1000	20

Thiometon 25%EC

Brinjal	Aphid & Jassid Fruit and Shoot borer	250	1000	750-1000	-
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Trichlorofon 5% Gr

Crop	Common Name of the Pest	(Dosage per hectare) Active ingredient (gm%)
Castor	Pod borer	2000 gm.
Groundnut	Red hairy caterpillar	500 gm.
Wheat	Army worm Cut worm	750 gm. 750 gm.
Vegetables (Brinjal, cabbage, cauliflower, cucurbits, tomato)	Fruit and shoot borer Diamond back moth Tobacco caterpillar Red pumpkin beetle	500 gm. 500 gm. 750 gm. 500 gm.

Trichlorofon 5% Dust

Castor	Pod borer	2000 gm.
Groundnut	Red hairy Caterpillar	500 gm.
Wheat	Army worm Cut worm	750 gm. 750 gm.
Vegetables (Brinjal, cabbage, cauliflower, cucurbits, tomato)	Fruit and shoot borer Diamond back moth Tobacco caterpillar Red pumpkin beetle	500 gm. 500 gm. 750 gm. 500 gm.

Trichlorofon 50% EC

Castor	Pod borer	2000 gm.
Groundnut	Red hairy caterpillar	500 gm.
Wheat	Army worm Cut worm	750 gm. 750 gm.

Vegetables (Brinjal, cabbage, cauliflower, cucurbits, tomato)	Fruit and shoot borer Diamond back moth Tobacco caterpillar Red pumpkin beetle	500 gm. 500 gm. 750 gm. 500 gm.
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Triazophos 20% EC

Rice	Stem Borer Leaf Folder Hispa Green leaf hopper Brown plant hopper White back plant hopper	250-500	1250-2500	500	40
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Triazophos 40% EC

Cotton	Bollworms (pink and spotted) whitefly	600-800	1500-2000	500-1000	21
Rice	Stem Borer, Leaf Folder, Hispa, Green leaf hopper, Brown plant hopper, White back plant hopper. Stem borer, Girdle beetle, Leaf miners	250-500	625-1250	500-1000	40
Soybean	Shoot & Fruit borer, Epilachna beetle	250	625	500	30
Brinjal		500	1250	500	5

Verticillium Lecanii 1.15%WP

Cotton	White flies	2500 (formulated	500 litres of water	----
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Zinc phosphide

Crop	Pest organism	Dosage
For field rodent control	Rattus , Rattus , bandicota bengalensis	-
In residential premises to be used under the supervision of trained personal	Rattus melitade , tatera indica, Mericnes hurrianco, Mus platythrix, Mus musculus, Rattus norvegicus, Mus booduga, Suncus caeruleus	1.5-2.5% active ingredient in bait

* **Endosulfan** : Endosulfan has been banned by the Supreme Court of India w.e.f 13-5-2011 for production, use & sale all over India – an Ad-Interim Order in the Writ Petition (Civil) No. 213 of 2011.

** **Lindane**: Ban for Use of Lindane shall be effective from March, 2013

COMBINATION PRODUCT

Acephate 25% w/w + Fenvalerate 3% w/w EC

Crop	Common name of the pest	Dosage per hectare			Waiting period in days
		a.i. (g)	Formulation (ml)	Dilution (Litre)	
Cotton	American bollworm	500+60	2000	500	15
	Sucking Insects	500+60	2000	500	15

Acephate 50% + Imidacloprid 1.8% SP

Cotton	Aphid , Jassids, Thrips, White flies, Bollworms	518	1000	500	40
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Betacyfluthrin 8.49% + Imidacloprid 19.81% OD

Brinjal	Aphids, Jassids, shoot & fruit borer	15.75+36.75 to 18 + 42	175-200	500	7
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Cypermethrin 3% + Quinalphos 20% EC

Brinjal	Shoot & Fruit borer		350-400	500-600	7
Cotton	Americall bollworm Spotted bollworm Jassids		1000-1250	500-600	15

Chlorpyrifos 50% + Cypermethrin 5%EC

Cotton	Aphid Jassids Thrips Whitefly Spodoptera litura Spotted bollworm Pink Bollworm American bollworm	500+50	1000	500-1000	15
Rice	Stem borer Leaf folder	312+32 to 375+38	625-750	500-700	15

Chlorpyrifos 16% + Alphacypermethrin 1%

Cotton	Spotted bollworm Pink Bollworm American bollworm	425	2500	500-750	15
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Deltamethrin 0.72% w/w + Buprofezin 5.65% w/w EC

Rice	Brown plant hopper Leaf folder	0.78+62.5 to 0.94+75	1250+1500	500	30
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Deltamethrin 1% + Trizophos 35%EC

Cotton	Spotted bollworm Pink Bollworm American bollworm White flies	10+350- 12.5+450	1000-1250	600-1000	21
Brinjal	Shoot & Fruit borer Jassids Aphid Epilachna beetle	10+350- 12.5+450	1000-1250	500	3

Ethion 40% + Cypermethrin 5% w/w EC

Cotton	American bollworm	400+50	1000	500	15
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***Endosulfan 35% + Cypermethrin 5% EC**

Cotton	Bollworms	875 + 125	2500	500- 1000	15
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Indoxacarb 14.5% + Acetamiprid 7.7% w/w SC

Cotton	Jassids, White flies & Bollworm	88.8-111	400-500	500	30
Chillies	Thrips, & Fruit borer	88.8-111	400-500	500	5

Novaluron 5.25% + Indoxacarb 4.5% SC

Tomato	Fruit borer & leaf eating caterpillar	43.31 + 37.13 to 45.94 + 39.38	825-875	500	5
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Phosphamidon 40% + Imidacloprid 2% SP

Paddy	Brown plant hopper, Green leaf hopper, Stem borer	252-294	600-700	750	22
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Profenofos 40% + Cypermethrin 4% EC

Cotton	Bollworm complex	440-660	1000-1500	500-1000	14
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PYRIPROXYFEN 5% EC + Fenpropathrin 15% EC

Cotton	Whitefly, Bollworms	25+75 – 37.5 +112.5	500-750	500-750	14
Brinjal	Whitefly, shoot and fruit borer	25+75 – 37.5 +112.5	500-750	500-750	7
Okra	Whitefly, fruit borer	25+75 – 37.5 +112.5	500-750	500-750	7
Chilli	Whitefly, fruit borer	25+75 – 37.5 +112.5	500-750	500-750	7

* **Endosulfan** : Endosulfan has been banned by the Supreme Court of India w.e.f 13-5-2011 for production, use & sale all over India – an Ad-Interim Order in the Writ Petition (Civil) No. 213 of 2011.

PUBLIC HEALTH USE

Azadirachtin 0.15% EC

Mosquito larvae	Habitat	a.i. (gm)	Formulation (gm)	Surface
Mosquito larvae	Stagnant water, drainage, water puddle, iron containers, machinery scraps, iron box, iron tanks, plastic scraps, pit.	1.0	1.0	10.7 m ²
		5.0	5.0	53.6 m ²
		933.3	933.3	1 hectare

Bacillus thuringiensis var. israelensis WP.

Name of insect	Dosage/h		Interval between application
	a.i. (gm)	Formulation(Kg.)	
Anopheles and Culex (larvae)		2 – 5 Kg/ha	2-4 weeks

Bacillus thuringiensis Var-esraelensis , Serotype H-14 (VECTOBAC 12 AS) Potency 1200 ITU / MG (VCRC Serotype H-14 strain)

Culex	Drains, Cesspits, Casuarina pits, Disused wells	5.0 litres.	1 liter in 100 lts of water
Anopheles	Paddy fields, Ponds, pools	10.0 litres.	1 liter in 50 lts of water
Aedes	Tree holes, disused tyres	10.0 litres.	1 liter in 50 lts of water
Culex	Drains, Cesspits, Casuarina pits, Disused wells	5.0 litres.	1 liter in 100 lts of water

Bifenthrin 10%WP

Pests	a.i (mg/m ²)	Formulation (gm)/500 m ²	Dilution in Water (Litre)
Adult Mosquito	25 (2 rounds of spraying 3 months apart)	125	Dilute 125 gm of Bifenthrin 10% WP in 10 litres of water to cover 500m ² area.

Bti 12% AS (Vectobac)

Anopheles	Clean water, cement tanks	1-2 ltrs.
Culex	Polluted water, cess pits, cement tanks, stagnant and flowing drains	2-4 ltrs.

Chlorpyrifos Methyl 40% EC	Used to control of adult vector mosquitoes
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Cyfluthrin 10% WP

Common name of pest	Dosage		
	a.i mg .m ²	Formulation (gm)	Dilution
Under public health programme Adult mosquitoes	25 (2 cycles application to be repeated after 3 months 40 (single cycles application)	250 400	Dilute 250 gm of fendona 5 WP in 10 litres of water to cover 500 m ² area. Dilute 400 gm of fendona 5 WP in 10 litres of water to cover 500 m ² area.

DDT 50%WP

Insects	a.i. gm/m	
Adult mosquitoes	1-2gm	

Deltamethrin 1.25% w/w or 1.0% w/v

Insect	Method of application	Dosage per hectare		
		a.i. (gm)	Formulation (ml)	Dilution in diesel oil (Litre)
Adult Mosquitoes	Thermal fogging	0.5	50	10
	Ulitatea low volume application	0.5	50	0.5

Deltamethrin Impregnated bed net 55mg/m²

-	Mosquitoes control under Public Health				
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Diflubenzuron 2% 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	-
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Fenitrothion 40% WP

Common name of pest	a.i (gm)	Formulation	Dilution in water (litres)
Mosquitoes& flies	400	1000	80

Fenthion 82.5% EC

Name of pest	Dosage per hectare		
	a.i. (gms)	Formulation (ml)	Dilution in water (litres)
Mosquitoes larvae	95	115	200
	(surface : up to 10 cm depth)		
	412	500	200
	(surface : up to 0.5 Meter depth)		
Adult mosquitoes Flies	124	150	200
	124	150	200

Fenthion 2% GR

Mosquito Larvae	Banks of lakes, ponds, ditches, marshes, swamps, stagnant water, septic tank & rice field.	100	5.0	Upto 10 cm depth.
		500	25	Upto 0.5 mtr depth.

Lambda Cyhalothrin 10%WP

Pest	Use	Dosage 500m ³ floor area		
		a.i. (gm)	Formulation gm)	Dilution in water (Litre)
Mosquitoes	For public health only	7.5-15	75-150	10

Malathion 25% WP

Crop	Common name of the pest	Dosage / sq.			Waiting Period (days)
		a.i (gm)	Formulation (gm)	Dilution in Water (Liter)	
-	Adult mosquitoes	2 per sq. m	8 per sq. m	100	Repeat after 6-8 weeks

Prallethrin 0.04% Coils (Min.11Hrs) (label expansion)

-	Mosquitoes in Houses.				
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Prallethrin 0.04% Coils (Min.6Hrs) (label expansion)

-	Mosquitoes in Houses.				
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Pyriproxyfen 0.5% Gr.

Breeding habitats	Dosage/h		Interval between application
	a.i. (gm)	Formulation(Kg.)	
Clean water/ domestic containers	10 (0.01ppm)	2.00	3 weeks
Polluted/ Peri-domestic breeding habitat	20 (0.02ppm)	4.00	3 weeks

Pirimiphos methyl 50%EC

Location	Name of the pest	Dosage	Waiting period
Mosquito breeding surface	Mosquito larvae	25ml/ha	-

Temephos 50% EC

Regime of application	Common name of pest	Dosage per hectare		Waiting period est (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 USE

Alphamethrin 0.1 w/w (RTU)

Common name of pest	Dose /sq. m	Formulation (ml)
	a.i (mg)	
Cockroaches Adult mosquitoes Adult houseflies	25-50	25 to 50

Alphacypermethrin 0.5% Chalk

Ready to use household insecticides	To control of cockroaches.
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Allethrin 0.5% Coil

Ready to use household insecticides	Used to control of house hold flying insect like houseflies and mosquitoes
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Allethrin 0.5% Mosquito Coil

Ready to use household insecticides	To control of adult mosquitoes
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Allethrin 0.2% Coil Adult Mosquitoes

Ready to use household insecticide.	To control of mosquito.
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Allethrin 0.5% Coil Adult Mosquitoes

Ready to use household insecticide.	To control of mosquito.
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Allethrin 4% Mat Adult Mosquitoes

Ready to use household insecticide.	To control of mosquito.
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Allethrin 5% Aerosol

Ready to use household insecticide.	To control of mosquito.
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Allethrin 3.6% LV

Ready to use household insecticide.	To control of mosquito.
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Bifenthrin 0.05% Mosquito coil

Ready to use household insecticide.	Used to control adult mosquitoes.
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Cyfluthrin 10% WP

Common name of pest	Dosage		
	a.i in mg /sq. m.	Formulation gms /sq.m.	Use
Adult mosquitoes	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
Cockroaches houseflies & Mosquitoes (in house)	20	0.200	

Cyfluthrin 10% WP

Common name of pest	Dosage		
	a.i mg .m ²	Formulation (gm)	Dilution
For house hold use Cockroach Housefly Mosquitoes	25-40	250-400	Dilute 250-400 gm of fendona 5 WP in 10 litres of water to cover 500 m ² area.

Chlorpyriphos 2% w/w

Ready to use household insecticides	Used for protecting wood from the attack of termites & borers.
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Chlorpyriphos Methyl 40% EC

Used to control adult mosquitoes

Cypermethrin 3% Smoke Generator

Ready to use household insecticide.	To control Cockroaches in house, hotels & warehouse.
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Cypermethrin 1.0% Dust

Ready to use household insecticide.	To control Cockroaches in house.
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Cypermethrin 1% Chalk

Ready to use household insecticide.	To control Cockroaches in house.
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Cyfluthrin 5%EW

Ready to use	To control adult mosquitoes in houses
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Cyfluthrin 0.025% + Transfluthrin 0.04% Aerosol

Ready to use	Used for controlling /repelling Mosquitoes. Houseflies & cockroaches in homes.
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Deltamethrin 2.5% Flow

Name of insect pest	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

Diflubenzuron 2% Tablets

Name of pest	Habitat	Dosage	Dilution in water
Mosquitoes Larvae	Unused Coolers	0.5-1.0 ppm	½ -1 Tablet in 40 lit. water

Diflubenzuron 25% WP

Name of pest	Habitat	Dosage	Dilution in water
Mosquitoes Larvae	Clean surface water,	25-50 gmai/ha	
	Polluted surface water Sewage pits, soakpits, latrines, septic tanks.	50-100gmai/ha 1 mg ai/ litre.	
House fly maggots control	In poultry manure	5.0 gm/10 sqm	5 litres water/ 10 sqm.

Deltamethrin 0.05% + Allethrin 0.04% w/w

Common name of house hold insect	Dosage per hectare	
	a.i. (g)	Formulation (ml)
Cockroaches, House flies, Mosquitoes	12.5-25	25-50

Diazinon 0.5% m/m+ Pyrethrum 0.1% m/m

Insects	Dosage ml/ sq. m
Cockroach Housefly	25-50

Deltamethrin 2.5% + D-trans Allethrin 2% w/w EC

Insects	Dosage per sq. meter	
	a.i. (mg)	Qty. of soln. (ml)
Cockroach, Houseflies Mosquitoes	12.5-25 + 10-20	25-50

Deltamethrin 0.02% w/w + Allethrin 0.13% w/w

Ready to use	Formulation to control cockroaches, mosquitoes and flies.
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Deltamethrin 0.5% w/w Chalk

--	To control Cockroaches, ants and bedbugs.
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Deltamethrin 1%RTU

Ready to use household insecticide.	To control Cockroaches in house.
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Diazinon 25% Micro Encapsulation

	Recommended for use for control of Cockroaches, houseflies and mosquitoes in houses.To control Cockroaches in house.
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D-Trans Allethrin 2% Mosquito Mat

Ready to use household insecticide.	To control Adult Mosquitoes in house.
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D-Trans Allethrin 0.1% w/w Mosquito Coil

Ready to use household insecticide.	To control and repel of Adult Mosquitoes in the house.
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Fenthion 2% Spray

Ready to use household insecticide.	To control of Cockroaches, Bed bugs, Flies & Mosquitoes.
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Fenitrothion 20% OL

Pest	a.i. (gm)	Formulation (ml)	Instruction for use
Bedbug (Cimex spp)	2.0	10.0	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 10m ² it can also be applied with a brush where ever bedbugs occur.

Fipronil 0.03% & 0.5%Gel

Ready to use household insecticide.	Used to control of German & American Cockroaches.
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Imiprothrin 0.1% + Cyphenothrin 0.13% w/w

Ready to use	Used for controlling cockroaches in homes.
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Propoxur 0.75% + Cyfluthrin 0.025% Aerosol	
Ready to use household insecticides	Cockroaches , Mosquitoes & houseflies

Imiprothrin 0.7% w/w + Cypermethrin 0.2% w/w aerosol	
Ready to use household insecticides	Used against Cockroaches.

Imidacloprid 2.15% w/w GEL	
Ready to use household insecticide.	Used to control of German & American Cockroaches.

Lambda Cyhalothrin 2.43% CS			
Purpose and target pest	Dosage per sq. m 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%	800-1000 (depending on the type of the net)

Lambda Cyhalothrin 2.43% CS		
Common name of pest	Dosage	
	a.i.	formulation
Adult mosquitoes	20-30 mg/m ²	10-15 ml/litres of water to cover 50m ² area
Adult House flies		
Cockroaches		

Lambda Cyhalothrin 2.43% CS		
Target insect	Dosage	
	Mg a.i./m ²	Method of application
Non porous surfaces- Mosquitoes House flies & Cockroaches	12.5	Mix 20 ml of product in 1 litre 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	

Lambda Cyhalothrin 2.43% CS			
Name of pest	Dosage per sq. m		
	a.i. (mg)	Formulation (ml)	Dilution in water
Cockroaches	50	1.0	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			
Name of pest	Dosage per sq. m		
	a.i. (mg)	Formulation (ml)	Dilution in water
Anopheles stephensi Culex quinquefasciatus aedes aegypti	0.5	0.01	Dissolve 5 ml of formulated material in kerosene to cover 500 square meter area.
Outdoor			
Name of pest	Dosage per sq. m		
	a.i. (mg)	Formulation (ml)	Dilution in water
Anopheles stephensi Culex quinquefasciatus aedes aegypti	3.5	70	Dissolve 70 ml Formulation in kerosene to cover 1 hectare area.

Malathion 2% House Hold Spray

Ready to use	To control of Bed, Bugs, Flies, Ants, Mosquitoes, Gnats, Moths, Cockroaches in houses.
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Propoxur 20% EC

Common name of pest	a.i (gm)	Formulation ml	Dilution in water (litres)
Flying insect- Mosquitoes, flies, cockroaches , bed bugs, flase , ticks crickets , woodlice , mite, silver fish, spider ants etc.	200	1000	40

Pirimiphosmethyl 1% spray

Location	Pest	Dosage	Explosure period (min. hrs.)
Spot spray in houses	cockroaches , bed bugs, flase etc.	100 ml/1m ²	1
Space spray in houses	Mosquitoes, housefiles	50 ml/100m ³	1

Pyrethrin 0.05% + Malathion 1%

Insects	Used to control of Cockroaches Mosquitoes, Flies
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Lambda Cyhalothrin 0.5% Chalk

Ready to use household insecticides	Used to control Cockroaches.
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Propoxure 2% Bait

Ready to use household insecticides	Used to control of cockroaches and flies.
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Pirimiphos Methyl 1% Spray

Ready to use	To control of cockroaches, Mosquito, Housefly, Bed-bug, Flea etc..
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Pyrethrin 0.2% w/w

Ready to use household insecticide.	To control of cockroaches, houseflies & mosquito.
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Propoxure 1% Spray

Ready to use household insecticide.	Used to control of cockroaches and house flies, adult mosquitoes.
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Prallethrin 1% w/w Red Mosquitoes Mat

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Prallethrin 0.8% w/w Red Mosquitoes Mat

Ready to use household insecticide.	Used to control of Mosquitoes.
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Prallethrin 0.5% w/w Mosquitoes Coil

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Prallethrin 1.2% Mat

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Prallethrin 0.04% w/w Mosquito Coil

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Prallethrin 19% w/w VP

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Prallethrin 2.4% w/w Liquid

Ready to use household insecticide.	Used to control of Mosquitoes.
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S – Bioallethrin 2.4% Mosquitoes Mat

Ready to use household insecticide.	Used to control of adult mosquitoes.
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Transfluthrin 0.88% & 1.6% Liquid Vaporizer

Ready to use household insecticide.	Used to control of adult mosquitoes and house fly.
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Transfluthrin 20% w/w MV Gel

Ready to use household insecticide.	Used to control of Mosquitoes in the house.
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Proteampfos 1% Spray

Ready to use household insecticide.	To control of Cockroaches, Bed bugs, Flies, fleas, mosquitoes & silverfish.
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Transfluthrin 0.88% w/w Liquid

Use / recommendation	Use to control /repelling adult mosquitoes in house.
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Transfluthrin 1% EU

Use / recommendation	It is used for controlling/repelling adult mosquitoes in the houses.
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Reference: Central Insecticide Board and Registration Committee - (<http://cibrc.nic.in/>)