



Government of India
Ministry of Agriculture & Farmers Welfare
Department of Agriculture, Cooperation & 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)

UP TO- 31.05.2018

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. 2 to 51).
2. Insecticides combination registered for agriculture use (Page No. 52 to 58).
3. Insecticides registered for Public Health use (Page No. 59 to 64).
4. Insecticides registered for Household use (Page No. 65 to 76).

APPROVED USES OF REGISTERED INSECTICIDES

Agricultural use

(AS ON 31.05.2018)

Abamectin 1.9%(w/w) EC					
Crop	Common name of the pest	Dosage / ha			Waiting Period (days)
		a.i (gm)	Formulation (gm/ml)	Dilution in Water (Liter)	
Rose (Ornamental)	Red Spider Mites (<i>Tetranychus urticae</i>)	0.00048-0.00096 %	0.025-0.050 %	500	3
Grapes	Mites	0.014/L	0.75 ml/L water	500-1000	3

ACEPHATE 75% SP					
Cotton	Jassids	292	390	500-1000	15
	Boll Worms	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

ACEPHATE 95% SG					
Rice	Yellow stem borer, Leaf Folder, Brown Plant Hopper	562.5	592	500	30

ACETAMIPRID 20% SP					
Cotton	Aphids, Jassids	10	50	500-600	15
	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

ALPHACYPERMETHRIN 10% SC					
Cotton	Boll Worms	25-30	250-300	500-1000	10

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 (<i>S.o</i>) Lesser Grain Borer, Khapra Beetle (<i>T.g</i>), Rust Red Flour Beetle, Saw Toothed Grain Beetle , Caddle 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 (<i>S.o.</i>) 7 Days (<i>T.g.</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 48hrs. The waiting period for the release of stock is 48hrs in both the cases. 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, Caddie or Flour worm, Red Flour Beetle, Indian Meal Moth, Larger cabinet Moth, Wheat Kernel Damage in the field Cockroach.	14 tablets/1000 Cu ft. 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.
Rodents Burrows	Rodents	1 Tablet/Burrow	-	-

ALUMINUM PHOSPHIDE 15%, 12g tablet				
Stored whole cereals and seed grains.	Rice weevil, Rust red flower beetle	1 tablet (12G) per ton or 600 100 m ³	Non polythene Packed commodities: Partial-1 hour. Full-(6-8) hour. Polythene Packed commodities: Minimum 48 hrs.	7-14
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		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

ALUMINUM PHOSPHIDE 6% tablet				
Crop & Non-Crop Area	Field rodents	0.72 g a.i/Burrow	One tablet of 12 gm /Burrow	-

AZADIRACHTIN 0.15% W/W MIN. NEEM SEED KERNEL BASED E.C.					
Cotton	White fly, Bollworm	-	2500 – 5000	500-1000	5
Rice	Thrips, Stem borer, Brown Plant hopper, Leaf folder	-	1500 – 2500	500	5

ALUMINIUM PHOSPHIDE 77.5% GR				
Commodity	Insect	Dose/m3	Exposure Period	Waiting Period
Stored Grain	Red rust Flour beetle, Lesser grain borer, Rice Weevil, Khapra beetle	3.35 gm	7 days	24hours

AZADIRACHTIN 0.3% (3000 PPM) MIN. NEEM SEED KERNEL BASED E.C.					
Cotton	American bollworm	-	4000	1000	5

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	Bollworm (<i>H. Armigera</i>), Aphids	-	2500-5000 2500-5000	500 500	5 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>Helicoverpa armigera</i>)	-			7
Red Gram	Pod Borer (<i>Melangromyza</i> sp)	-	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 CONCENTRATES

Tea	Caterpillar, Pink mite Red Spider mites, Thrips	-	200	400	5
Tobacco	Tobacco caterpillar, Aphids	-	200	400	5

Rice	Brown Plant Hopper, Leaf Folder, Stem Borer	-	200	400	5
Cotton	White Fly, Leaf Hoppers, <i>H.armigera</i> , Aphids	-	375	750	5
Cauliflower	Spodoptera, Diamond back moth, Aphids	-	200	400	5
Bhindi	Leafhopper, whitefly, Aphid, 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>H. armigera</i>)	-	1.0-1.5	500		
Bhindi	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>Helicoverpa armigera</i>)	-	2.0-2.5	1000		
Rice	Leaf folder (<i>Cnaphalocrocis medinalis</i>)	-	1.0-3.0	1000		

BACILLUS THURINGIENSIS-K					
Cotton	Bollworm	-	750-1000	750-1000	Nil

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	-	
Soybean	Spodoptera, Heliothis, Spilosoma, Semilooper, Leaf miner	0.75 kg.	500-750		
Tobacco	Spodoptera, Heliothis	1.50-2.00 kg.	500-750	-	
Castor	Hairy caterpillar, Ahea janata	1.00 kg.	500-750		
Teak	Defoliator (<i>Hyblaea pured</i>), Skeletonizer (<i>Eutectona machaeralis</i>)	0.25-0.50% Sol.	As required		

BARIUM CARBONATE

Places	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 (Liter)	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	-
Rice	Leaf folder	-	2.5kg/hac	750-850	-

BEAUVERIA BASSIANA 1% WP

STRAIN NO: NBRI – 9947

Chick pea	Pod borer	-	3 kg.	500	-
-----------	-----------	---	-------	-----	---

BEAUVERIA BASSIANA 10% SC

Cabbage	DBM	1-1.5	-	500-750	-
---------	-----	-------	---	---------	---

INTERNATIONAL PANACEA LTD.

STRAIN NO. IPL/BB/MI/01

Okra	Fruit borer / spotted bollworm	-	3.75-5.0 kg	400-500	-
------	--------------------------------	---	-------------	---------	---

BENFURACARB 3% GR

Rice	Stem borer, Leaf folder, BPH	1000	33000		20
------	------------------------------	------	-------	--	----

BENFURACARB 40% EC

Red gram	Pod borer	1000	2500	500	20
----------	-----------	------	------	-----	----

BIFENAZATE 50% WP

Rose	Two Spotted Mite (Tetranychusurticae)	375	750	3000	Not applicable
------	---------------------------------------	-----	-----	------	----------------

BIFENAZATE 22.6% SC

Rose	Two Spotted Mite (Tetranychusurticae)	120	500	2000	Not applicable
------	---------------------------------------	-----	-----	------	----------------

BIFENTHRIN 10% EC

Cotton	Bollworm White Fly	80	800	500	15
Rice	Stem borer, leaf folder & Green leaf hopper	50	500	500	21
Sugarcane	Termites	100	1000	500	10 months

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 Dipping	10g/ meter ³ of wood 0.025% Solution	400ml formulation per meter ³ of wood 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, Tea mosquito bug	40	500	400	11
Apple	Mites	60	7.5ml/lit	10 lit/tree	21

BROMADIOLONE 0.25% CB					
Paddy	Field Rat, Large Bandicota Indian house rat, Indian Field	0.005			
Wheat , Gram	Field Rat, Indian house rat	0.005			
Groundnut, Sugarcane	Field Rat, Large bandicota	0.005			
Coconut/ Bamboo	Indian house rat	0.005			
Residential premises	Field Rat, Large bandicota	0.005			
Poultry Farm	Indian House rat House mouse	0.005			

BROMADIOLONE 0.005% RB					
Paddy	Field Rat, Large Bandicota Indian house rat	0.005			
Wheat	Indian Field mouse Field Rat	0.005			
Gram	Indian house rat, Field Rat, Indian	0.005			
Groundnut, Sugarcane	Field Rat, Large bandicota	0.005			
Coconut/ Bamboo	Indian house rat, Field Rat Large bandicota	0.005			
Residential premises	Indian House rat, House mouse,	0.005			
Poultry Farm	Indian house rat House mouse Large bandicota	0.005			

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/liter of water	5-15 liter per tree	20
Grapes	Mealy bugs	250-375	1000-1500	500-1000	7
Rice	BPH, GLH, WBPH	200	800	400-500	20

BUPROFEZIN 70% DF					
Okra	Jassids	200	286	500	5

CARBARYL 5% D.P.					
Paddy	Leaf roller/folder	1250	25000		-
	Brown plant hopper,	1000	20000		15
Cotton	Spotted bollworm	1000	20000		8
	American bollworm				
	Pink Bollworm				
Sorghum	Earhead midge	1000	20000		8
Bhindi	Jassid	1000	20000		8
Cabbage	Cabbage borer	600	20000		8
Cauliflower	Cabbage borer	600	12000		8

CARBARYL 10% D.P.					
Paddy	Blue Jassid, Case worm	2500	25000	-	-
Sorghum	Aphid,	2500	25000	-	41
	Earhead caterpillar	2000	20000		40
Tur	Plume moth, Pod fly	2000	20000		-
Cotton	Aphid, American	2500	25000		21
	bollworm, Stem weevil				
Sesamum	Til leaf roller	2500	25000		-
Bhindi	Fruit borer, Jassids	2500	25000		-
Cabbage	Diamond back moth	2500	25000		-
	Army worm				

CARBARYL 4% G.R.					
Maize	Stem borer	250	6250	0	-

CARBARYL 50% WP					
Maize	Shoot fly	750	1500	500-1000	40
	Stem Borer	700	1400	500-1000	40
Paddy	Brown Plant Hopper, Stem Borer	1000	2000	500-1000	-
	Green Leaf Hopper	750	1500	500-1000	-
Cotton	Aphids, Jassids, Thrips, Leaf Roller, Spotted Bollworm, Pink Bollworm, American Bollworm	1000	2000	500-1000	22
Jute	Semi Looper	1000	2000	500	22
Sorghum	Hoppers, Aphids, Stem Borer	1000	2000	500-1000	41
	Shoot fly	750	1500	500-1000	20
Tomato	Fruit Borer	1000	2000	500-1000	8
Chillies	Thrips	1000	2000	500-1000	-
Brinjal	Fruit Borer, Jassids	1000	2000	500-1000	5
Bhindi	Fruit Borer	1000	2000	500-1000	3
Cauliflower	Cabbage borer	800	1600	500-1000	8
Cabbage	Cabbage Borer	800	1600	500-1000	5
Wheat	Army worm	1000	2000	500	-

CARBARYL 85% W.P.					
Maize	Stem borer	1500	1764	500-1000	
Paddy	Green leaf hopper, Jassids	500	588	500-1000	
Cotton	Pink bollworm, Spotted bollworm, Thrips, White fly	1200	1411	500-1000	

CARBOFURAN 3% CG					
Barley	Aphid	1000	33300		
	Jassids	1250	41600		
	Cyst nematode	1000	33300		
Bajra	Shoot fly	1500	50000		
Sorghum	Shoot fly,	1000	33300		
	Stem borer	250	8300		

Jute	Nematodes	1000	33300		
Groundnut	Pod borer White grub	1500 1000	50000 33300		
French bean	White grub	700	23300		
Potato	Aphid, Jassids	500 1000	16600 33300		
Tomato	White fly	1200	40000		
Apple	Woolly aphid	5/tree	166/tree		
Citrus	Nematode Leaf miner	360 1500	12000 50000		
Maize	Stem borer Shoot fly Thrips	1000 1000 1000	33300 33300 33300		
Paddy	Brown plant hopper Gall midge, Stem borer, GLH, Hispa Nematodes	750 750 750 1500	25000 25000 25000 50000		
Mustard	Mustard leaf miner White fly	2000 1000	66600 33300		
Soybean	Root knot nematode	1500	50000		
Sugarcane	Top borer	2000	66600		
Bhindi	Jassids	1000	33300		
Chillies	Aphid , Thrips	1000	33300		
Cabbage	Nematode	1000	50000		
Wheat	Ear cockle nematode Cereal cyst nematode	3000 2000	10000 66600		
Brinjal	Root knot nematode Reniform nematode	2000 2000	66600 66600		
Banana	Rhizome weevil Aphid Nematode	1 g/ suckers 50g/suckers 1.5g/suckers	33g/sucker 166g/sucker 50g/suckers		
Peach	Leaf curl aphid	1000	33300		
Mandarins	Soft greens scale	0.4g/plant	13.3g/plant		
French bean	White grubs Grey & Stem weevil	750 1000	23300 33300		

Pea	Shoot fly & Aphid	1000			
Tea	Cock chafer grub	0.3g/plant	33.10g/plant		

CARBOSULFAN 6% G					
Rice	Stem borer Gall midge Green leaf hopper Leaf folder	1000	16700		37

CARBOSULFAN 25% EC					
Rice	Green leaf hopper White plant hopper Brown plant hopper Gall midge 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

CARBOSULFAN 25% DS					
Cotton	Jassid, Aphids and Thrips	15 gm/kg Seed.	60gm/kg seed	Not required	--

CARTAP HYDROCHLORIDE 4% GRANULES					
Rice	Stem borer, Leaf folder, Whorl Maggot	750 750-1000 750-1000	18750 18750-25000 18750-25000	--	--

CARTAP HYDROCHLORIDE 50% SP					
Rice	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 18.5% 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 Early shoot borer Top borer	100-125 75 75	500-625 375 375	1000 1000 1000	208
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 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	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 (<i>Plutella xylostella</i>)	75-100	750-1000	500	7
Chilli	Mites (<i>Polyphagotarsonemus latus</i>)	75-100	750-1000	500	5

CHLORFLUAZURON 5.4% EC

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

CHLORPYRIFOS 10% G

Rice	Stem borer, Leaf Roller, Gall midge	1000	10000		30
------	--	------	-------	--	----

CHLORPYRIFOS 20% EC					
Paddy	Hispa	250	1250	500-1000	
	Leaf roller	375	1875	500-1000	
	Gall midge, Stem borer	250	1250	500-1000	
	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 & stalk borer	250-300	1250-1500	500-1000	
	Pyrilla	300	1500	500-1000	
Cotton	Aphid, Bollworm ,	250	1250	500-1000	
	White fly, Cut worm	750	3750		
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	500-1000	

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 Chlorpyriphos 50% EC @ 0.5% and 1.0% concentration.

CHLORPYRIFOS 1.5% DP					
Paddy	Stem borer Green leaf hopper Brown plant hopper Leaf folder, Gall midge Grass hopper	375	25000		7
Bengal gram	<i>Helicoverpa armigera</i>	375	25000		7

CHROMAFENOZIDE 80% WP					
Paddy	Leaf folder, Stem borer	75-100	94-125	500	32

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 drench)	Termite	125	250	1000	310
Tea	Mosquito Bug (<i>Helopeltis theiovora</i>)	60	120	500	5

COUMATETRALYL 0.75% W/W					
Indoor or outdoor	Rats (<i>rattus rattus</i>) <i>R. norvegicus</i> <i>Bandicota</i> <i>bengalensis</i> , <i>B. Indica</i> , <i>Tetra indica</i> , <i>Meriones</i> <i>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</i> , <i>Bandicota bengalensis</i> , <i>B. Indica</i> , <i>Tetra Indica</i> , <i>meriones hurrianae</i>)	1 mg per spot	2.5 per spot		
Indoor	Mice	1	2.5		

CYANTRANILIPROLE 10.26% OD

Grapes	Thrips- <i>Scirtothrips dorsalis</i> Flea beetle- <i>Scelodonta strigicollis</i>	70	700	1000	5
Pomegranate	Thrips – <i>Scirtothrips dorsalis</i>	75 (0.0075%)	750 (0.075%)	1000	5
	Whitefly- <i>Siphoninus phillyreae</i> Aphids- <i>Aphis punicae</i>	90 (0.009%)	900 (0.09%)		
Cabbage	Cabbage Aphid- <i>Brevicoryne brassicae</i> Mustard Aphid- <i>Lipaphis erysimi</i> Diamond back moth- <i>Plutella xylostella</i> Tobacco caterpillar- <i>Spodoptera litura</i>	60	600	500	5
Chilli	Thrips- <i>Scirtothrips dorsalis</i> Fruit borer- <i>Helicoverpa armigera</i> Tobacco caterpillar- <i>Spodoptera litura</i>	60	600	500	3
Tomato	Leaf miner – <i>Liriomyza trifolii</i> Aphids – <i>Aphis gossypii</i> Thrips- <i>Thrips tabaci</i> White fly – <i>Bemesia tabaci</i> Fruit borer – <i>Helicoverpa armigera</i>	90	900	500	3

Gherkins	Leaf miner – <i>Liriomyza trifolii</i> Red pumpkin beetle - <i>Aulacophora foveicollis</i> Aphids- <i>Aphis gossypii</i> Thrips- <i>Thrips palmi</i> White fly - <i>Bemesia tabaci</i> Pumpkin caterpillar – <i>Diaphania indica</i> Fruit fly- <i>Bactrocera cucurbitae</i>	90	900	500	5
----------	--	----	-----	-----	---

CYFLUMETOFEN 20% SC

Tea	Red spider mite	125-150	625-750	400-500	5
-----	-----------------	---------	---------	---------	---

CYPERMETHRIN 0.25% DP

Brinjal	Fruit & shoot borer	50-60	20000-24000		3
---------	---------------------	-------	-------------	--	---

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
Cabbage	Diamond backmoth	60-70	650-760	100-400	7
Okra	Fruit borer	50-70	550-760	150-400	3
Brinjal	Fruit & shoot borer	50-70	550-760	150-400	3
Wheat	Shoot fly	50	550	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	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				

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
Tea	Tea Thrips	10.0	100	400	15

DELTAMETHRIN 25% TABLET

Cotton	Bollworms	12.5	50	400-600	30
--------	-----------	------	----	---------	----

DELTAMETHRIN 1.8% EC

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

DELTAMETHRIN 2.5% WP

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

DELTAMETHRIN 2.8% EC

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

D.D. MIXTURE

Used against nematodes

DICHLORVOS 76% EC					
Paddy	BPH	375	470	500-1000	
Wheat	Caterpillar	500	627	500-1000	
Castor	Hairy caterpillar	625	783	500-1000	
Groundnut	Red hairy caterpillar	375-750	470-940	500-1000	
Mustard	Painted bug	500	627	500-1000	
Sunflower	Caterpillar	500	627	500-1000	
Cucurbit	Red pumpkin beetle	500	627	500-1000	
Cashew	Apple borer	0.05%	940-1253	1500-2000	

DICOFOL 18.5% EC					
Tea	Red spider mite, Scarlet mite , Pink mite, Purple mite, Yellow mite	230	1250	250	15-20
Okra	Red Spider mite	250-500	1350-2700	500-1000	15-20
Citrus	Red Spider mite	0.05%	2700-4050	1000-5000	15-20
Litchi	Red Spider mite	0.05%	2700-4050	1000-5000	15-20
Cotton	Red Spider mite	500-1000	2700-5400	500-1000	15-20

Brinjal	Yellow mite	500-1000	2700-5400	500-1000	15-20
Bottle & Bitter gourd	Red Spider mite	250-500	1350-2700	500-1000	15-20

DIAFENTHIURON 47.8 % SC					
Cotton	Whiteflies, Aphids, Thrips, Jassids	239	500	500	30

DIAFENTHIURON 50% WP					
Cotton	Whiteflies, Aphids, Thrips, Jassids	300	600	500-1000	21
Cabbage	Diamond Back Moth	300	600	500-750	7
Chilli	Mites	300	600	500-750	3
Brinjal	Whitefly	300	600	500-750	3
Cardamom	Thrips, Capsule borer	400	800	1000	7
Citrus	Mites	1.0 g/l	2.0 g/l	2-3 liter/hect.	30

DIFLUBENZURON 25% WP					
Cotton	Tobacco Caterpillar, Bollworms	75-87.5 75	300-350 300	500-1000 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	
Sorghum	Midge	500	1650	500-1000	
Castor	Jassids, Mites	250	825	500-1000	
	Semi loopers	350	1155	500-1000	
Mustard	Leaf minor, Aphid, Sawfly	200	660	500-1000	
Safflower	Aphid	200	660	500-1000	
Bhindi	Aphid	700	2310	500-1000	
	Leaf hopper, Jassid	600	1980	500-1000	
Brinjal	Shoot borer	200	660	500-1000	
Cabbage & Cauliflower	Aphid, Painted bug, Mustard aphid	200	660	500-1000	
Chillies	Mite	300	990	500-1000	
Onion	Thrips	200	660	500-1000	
Potato	Thrips	200	660	500-1000	
Tomato	Aphids	200	660	500-1000	

	White fly	300	990	500-1000	
Apple	Stem borer	0.03%	1485-1980	1500-2000	
Apricot	Aphid	0.03%	1485-1980	1500-2000	
Banana	Aphid, Lace wing bug	0.03%	1485-1980	1500-2000	
Citrus	Black citrus aphid	0.03%	1485-1980	1500-2000	
Fig	Fig jassid	0.03%	1485-1980	1500-2000	
	Mealy bug	0.03%	2475-3300	1500-2000	
Mango	Hopper	0.05%	2475-3300	1500-2000	
Rose	Scale	750	2475	500-1000	
	Thrips	400	1320	500-1000	

DINOTEFURAN 20% SG					
Rice	Brown plant hopper	30-40	150-200	500	21
Cotton	White Fly, Jassids, Aphids & Thrips	25-30	125-150	500	15

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 & Mites	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
Tea	Tea loopers	10.0	200	500	1

EMAMECTIN BENZOATE 1.9% EC					
Cotton	Boll worms	11.0	580	500	15

*ENDOSULFAN 2% DP					
Arhar	Pod borer	500	25000		8
Gram	Pod borer	500	25000		40
Bhindi	Fruit & shoot borer	500	25000		4
Brinjal	Fruit & shoot	500	25000		7

Endosulfan*:- Endosulfan has been banned by the Supreme Court of India w.e.f. 13-05-2011 for production, use & sale, all over India, till further orders vide ad-Interim order in the Writ Petition (Civil) No. 213 of 2011.

*ENDOSULFAN 35%EC					
Cotton	Jassids, Aphid , Thrips , White fly, Leaf roller	210	600	500-1000	70
		280	800	500-1000	70
		350-420	1000-1200	500-1000	70
Jute	Bihar hairy caterpillar, Yellow mites	140-175	400-500	500-1000	21
		175	500	500-1000	21
Paddy	White jassid	175	500	500-1000	21
	Stem borer	210	600	500-1000	21
	Gall midge	210	600	500-1000	21
	Rice Hispa	175	500	500-1000	21
Maize	Aphid	175	500	500-1000	21
	Stem borer	140	400	500-1000	21
	Pink borer	210	600	500-1000	21
Wheat	Aphid	175	500	500-1000	21
	Termite	175	500	500-1000	21
	Pink borer	210	600	500-1000	21
Gram	Aphid	175	500	500-1000	40
	Caterpillar	210	600	500-1000	40
Mustard	Aphid	175	500	500-1000	21
	Gall midge	263	750	500-1000	21
Bhindi	Aphid	140	400	500-1000	21
Chillies	Aphid	140	400	500-1000	21
Tea	Aphid, Catterpillars	288-350	750-1000	375-500	7
	Mealy bugs, Scale insects Thrips, Fush worm,Thrips , <i>Helicoverpa</i>	285-350	814.28-100	500-1000	
Mango	Hopper	0.05%	1429	1000	7
	Fruit fly	0.2%	5414	1000	7
	Termite	438-656	1250-1875	1000	-
Ground nut	Jassid, Hairy Caterpillar, Semilooper	350-437	1000-1249	500-1000	21
		420-525	1200-1500	500-1000	21

Endosulfan*:- Endosulfan has been banned by the Supreme Court of India w.e.f. 13-05-2011 for production, use & sale, all over India, till further orders vide ad-Interim order in the Writ Petition (Civil) No. 213 of 2011.

*ENDOSULFAN 4% DP					
Cotton	Jassids, Aphid, Thrips, White flies, Leaf roller, Pink Boll worm	210	5250		21
		280	7000		21
		350-420	8750-10500		21
Jute	Bihar hairy caterpillar , Yellow mites,	140-175	3500-4400		21
		175	4400		21

Paddy	White Jassid, Stem borer, Gall midge, Rice Hispa	175 210	5250 5250		21 21
Maize	Aphid, Stem borer, Pink borer,	140-175 140-210	3500-4400 3500-5250		21 21
Wheat	Aphid, Termite, Pink borer	140-175 140-210	3500-4400 3500-5250		21 21
Gram	Aphid, Caterpillar, Peas semilooper	140-175 140-210 175	3500-4400 3500-5250 4400		21 21 21
Mustard	Aphid, Gall midge	140-175 175	3500-4400 4400		21 21
Groundnut	Aphids,	140-175	3500-4400		21
Bhindi	Aphids, Jassids	140-175	3500-4400		21
Onion	Aphids, Jassids	140-175	3500-4400		21
Chillies	Aphids Jassids	140-175	3500-4400		21
Potatoes	Aphids / Jassids	140-175	3500-4400		21

Endosulfan*:- Endosulfan has been banned by the Supreme Court of India w.e.f. 13-05-2011 for production, use & sale, all over India, till further orders vide ad-Interim order in the Writ Petition (Civil) No. 213 of 2011.

ETHION 50% EC					
Tea	Red spider mites, purple mites & yellow mite, thrips & scale	250	500	500-1000	03
Cotton	White fly, Bollworms	750-1000 1000	1500-2000 2000	500-1000 500-1000	- 25
Chilli	Mites & thrips	750-1000	1500-2000	500-1000	05
Gram	Pod borer	500-750	1000-1500	500-1000	21
Pigeon pea	Pod borer	500-750	1000-1500	500-1000	21
Soybean	Girdle beetle & stem fly	750	1500	500-1000	30

ETHOFENOPROX 10%EC					
Rice	BPH, Stem borer, Leaf folder, Gall midge, Whorl maggot, GLH, WBPH	50-75	500-750	500	15

ETHYLENE DICHLORIDE + CARBON TETRACHLORIDE 3:1						
Crop	Common name of the pest	Cond.	Weight of vol.	Exposure period	Conc. In air (ppm)	Aeration/Waiting
Stored whole cereals Millets Pulses &	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.

ETOXAZOLE 10% SC					
Brinjal	Red Spider Mite	40	400	400-500	5
Tea	-do	40	400	400	5

FENAZAQUIN 10% EC					
Tea	Red spider mite, Pink Mite, 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	Red spider mite	125	1250	500	7
Brinjal	Red spider mite	125	1250	500	7

Tomato	Two spotted spider mite	125	1250	500	7
--------	-------------------------	-----	------	-----	---

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	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

FENPYROXIMATE 5% EC

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

FENVALERATE 20% EC

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

FENVALERATE 2% CONC.

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

FENVALERATE 0.4% DP

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

FIPRONIL 5% SC

Rice	Stem borer, Brown plant hopper, Green leaf hopper, Rice leaf hopper, Rice gall midge, Whorl maggot, White backed plant hopper	50-75	1000-1500	500	32
Cabbage	Diamond back moth	40-50	800-1000	500	7
Chillies	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	75-100	1500-2000	500	6
	Boll worms	100	2000	500	7

Fipronil 18.87% w/w SC

Cotton	Thrips	75	375	375 -500	21
--------	--------	----	-----	----------	----

FIPRONIL 2.92% EC					
Pre-construction	Termite	0.25%	100	1	IS:6313-2001 (Part-2)
Post-construction (Building)	Termite	0.25%	100	1	IS:6313-2001 (Part-3)

FIPRONIL 0.3% GR					
Rice	Stem borer, Brown plant hopper, Green leaf hopper Rice leaf hopper, Rice gall midge, Whorl maggot,	50-75	16670- 25000		32
Sugarcane	Early shoot borer Root borer	75-100	25000-33300		9
Wheat	Termites	0.06	20 kg	-	91

Fipronil 0.6% w/w GR					
Rice	Stem borer & Leaf folder	60	10	65	-

FIPRONIL 80% WG					
Rice	Stem borer, Leaf folder	40-50	50 – 62.5	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

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

FLUBENDIAMIDE 20% WG					
Rice	Stem borer, Leaf borer	25	125	500	30
Cotton	American bollworm	50	250	500	30
Tomato	Fruit borer	48	100	375-500	5
Cabbage	Diamond back moth	18.24	37.5-50	375-500	7
Tea	Semilooper	30	150	400	7
Chilli	Fruit borer	50 – 60	250-300	500	5

FLUBENDIAMIDE 39.35% M/M SC					
Rice	Stem borer, Leaf folder	24	50	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	7
Tomato	Fruit borer	48	100	375-500	5
Cabbage	Diamond moth back	18.24	37.5-50	375-500	7
Soybean	Defoliators (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i> and Semilooper)	72	150	500	17

FLUFENOXURON 10% DC					
Rose	Mites	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

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	5
--------	--	---	--	------	---

Flupyradifurone 17.09% w/w SL

Okra	Jassids & Whitefly	250	1250	500	3
------	--------------------	-----	------	-----	---

FLUVALINATE 25% EC

Cotton	Aphids, Jassids, Red cotton bug, Bollworm	50-100 50-100	200-400 200-400	500-1000 500-1000	7 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
Apple	European Red Mite	0.002%	0.04%	10ltr./tree	15

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, Jassid Thrips	300 – 540	500 – 900		NR
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	-	-
Maize	Shoot fly	0.6	1.0	-	-
Rice	Thrips	0.15	0.25	-	-

IMIDACLOPRID 70% WS		PER 100KG SEED			
Cotton	Aphids, Whitefly, Jassids, Thrips	350 – 700	500 – 1000		NR
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, Jassids, 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 post 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 use	15
Groundnut	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
-------	------------	-------	---------	---	----

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
Pigeonpea	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 caterpillar, 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	Fruit borer	15	300	500	5
Grapes	Thrips & Flea beetle	12.5	250	500-1000	7
Chilli	Thrips & pod borer	25	500	500	5

Soybean	Stemfly & Semilooper	15.0	300	500	31
---------	----------------------	------	-----	-----	----

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
Groundnut	Thrips, leaf Hopper, leaf miner	10-15	200-300	400-500	10
Mango	Hoppers	0.0025-0.005%	0.5-1.0 ml/l of water		7

LUFENURON 5.4% EC

Cabbage	Diamond backmoth	30	600	500	14
Cauliflower	Diamond backmoth	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	
Castor	Jassids	750	1500	500-1000	
	Semi looper	1000	2000	500-1000	
Sunflower	White fly	500	1000	500-1000	
Bhindi	Aphid	500	1000	500-1000	
	Jassids,	625	1250	500-1000	
	Spotted Boll Worm	750	1500	500-1000	
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, Wooly aphid	0.05%	1500-2000	1500-2000	
Mango	Mealy scale, 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

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 Pea	Pod borers	300-450	750-1125	500-1000	7

Tomato	Pod borers	300-450	750-1125	500-1000	5/6
Chilli	Pod borers & Thrips	300-400	750-1125	500-1000	5/6
Groundnut	<i>Spodoptera litura</i>	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 (<i>S.O</i>) Lesser Grain Bore, Khapra Beetle (<i>T.g</i>), 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 (<i>T.g</i>), 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, Leaf roller , Ear head bug	500	25000	-	At infestation Post flowering ear head stage
Cotton	Aphid Leaf hopper, Thrips	300 500	15000 25000	-	At infestation
Black gram	Pod borer	500	25000	-	At infestation
Green gram	Pod borer	500	25000		
Mustard	Sawfly, Aphids	300	15000		

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 &	400	800	500-1000	-
	Whorl maggot	500	1000	500-1000	-

Wheat	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

MONOCROTAPHOS 15% SG

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

MONOCROTAPHOS 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	-
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	
	Mealy 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, Leaf	175	437	500-1000	
	Hopper,	175	437	500-1000	
	Grey weevil,	500	1250	500-1000	
	Thrips	175	437	500-1000	
	White fly	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 & high Or 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	100	1000	500-1000	20
	Tobacco caterpillar				

NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA 0.43% AS

Cotton	<i>Helicoverpa armigera</i>	2700	400-600	-
Tomato	<i>Helicoverpa armigera</i>	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 STRAIN NO. GBS/HNPV -01

(A) GANESH BIO-CONTROL SYSTEM

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	-

(a) 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 <i>HELICOVERPA ARMIGERA</i> 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 <i>SPODOPTERA LITURA</i> 0.5%AS				
Tobacco	<i>Spodoptera litura</i>	1500	400-600	-

NPV OF <i>HELICOVERPA ARMIGERA</i> 0.5%AS				
Chick pea	<i>Pod borer</i>	250	500	-

OXYDEMETON – METHYL 25% EC					
Paddy	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/ 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	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	Tingyi 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

Cotton	Bollworms,	100-125	400-500	500-1000	-
--------	------------	---------	---------	----------	---

PAECILOMYCES LILACINUS 1.15% WP

Brinjal	Root Knot Nematode	3kg	500kg Organic Manure/organic Fertilizer	-	-
---------	--------------------	-----	---	---	---

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	-
Ground nut	Leaf Webber	500	1000	500-1000	-

PHORATE 10% CG					
Bajra	Shoot fly White grub	3000 2500	30000 25000	-	-
Barley	Aphid	1000	10000		
Maize	Shoot fly Stem borer	3000 1000	30000 10000		
Paddy	Gall fly, Hispa, Leaf hopper , Plant hopper, Stem borer , Root weevil	1000 750	10000 7500		-
Sorghum	Shoot fly, Aphids White grub	1875 2500	18750 25000	-	-
Wheat	Shoot fly	1875	18750	-	-
Black gram	Stem fly, White fly	1000	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	10000		
Groundnut	Aphid, Leaf minor White grub	1500 2500	15000 25000		
Mustard	Mustard aphid, Painted bug	1000 1500	10000 15000		
Seasamum	Jassids, White fly	1000	10000		
Brinjal	Aphid, Jassids, Lace wing bug, Red spider mite Thrips	1500 1000	15000 10000		
Cauliflower	Aphid	2000	20000		
Chillies	Aphid , Mite, 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 -1.25/ plant	25 -12.5/ plant		
Citrus	Leaf minor	1500	15000		

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	360	1028	500-1000	
	Purple mite	360	1028	500-1000	

PHOSALONE 4% DP

Sorghum	Earhead midge,	1000	25000	--	--
---------	----------------	------	-------	----	----

PHOSPHAMIDON 40% SL

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

PROFENOFOS 50% EC

Cotton	Bollworm,	750-1000	1500-2000	500-1000	15
	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, 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

PYMETROZINE 50% WG

Paddy	Brown Plant Hopper	150	300	500	19
-------	--------------------	-----	-----	-----	----

Pyriproxyfen 10% EC

Cotton	Whitefly	100	1000	500	31
Cotton	Whitefly	50-60	500-700	500	50
Chilli	Whitefly, Aphids	50	500	300	7

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, Leaf roller, Stem borer, Hispa	250	1000	500-1000	

QUINALPHOS 5% GRANULE

Sorghum	Stem borer	750	15000	-	
Paddy	Gall midge, 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
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
Groundnut	Spodoptera	250-375	1250-1775	750-1000	30

QUINALPHOS 25% EC					
Paddy	Brown plant hopper,	375	1500	500-1000	40
	Hispa/bune beetle,	500	2000	500-1000	40
	Leaf roller,	250	1000	500-1000	40
	Stem borer	325	1300	500-1000	40
Sorghum	Mite, Shoot fly	375	1500	500-1000	
Wheat	Aphid	250	1000	500-1000	
	Ear head Caterpillar ,	400	1600	500-1000	
	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	
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	
Cauliflower	Stem borer	500	2000	500-1000	

Chillies	Aphid Mite	250 375	1000 1500	500-1000 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 Citrus butterfly	0.07% 0.025%	4200-5600 1500-2000	500-1000 500-1000	
Pomegranate	Scales	0.08%	4800-6400	500-1000	
Cardamom	Thrips	0.03%	600-1200	500-1000	30
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
Soybean	Leaf weevil	250	16600		
French bean	Stem fly	300	20000		
Cotton	Aphid, Jassids, Thrips, Bollworm	300 450	20000 30000	From square formation	
Ground nut	Thrips, Jassids Red hairy Caterpillar	350 375	23300 25000		30 30
Safflower	Aphid	300	20000		
Chillies	Aphid	300	20000		

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

SPINETORAM 11.7 % SC					
Cotton	Thrips, Tobacco caterpillar Spotted boll worm	50 50-56 50-56	420 420-470 420-470	500-1000 500-1000 500-1000	30
Soybean	Tobacco caterpillar	54	450	500-625	30

Chillies	Thrips,	56-60	470-500	400-500	7
	Fruit borer	56-60	470-500	400-500	
	Tobacco caterpillar	56-60	470-500	400-500	

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
-----------------------	-------------------	-----------	---------	-----	---

SPIROMESIFEN 22.9% SC

Brinjal	Red spider mite	96	400	500	5
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	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
Cotton	White fly & mite	144	600	500	10

Spirotetramat 15.31% w/w OD

Chilli	Thrips & Aphids	60	400	500	5
--------	-----------------	----	-----	-----	---

THIACLOPRID 21.7% SC

Cotton	Aphid, Thrips, Jassid	24 – 30	100 – 125	500	52
	Whitefly	120 – 144	500 – 600	500	52
Paddy	Stem borer	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	Girdle beetle	180	750	500	17

Apple	Thrips	0.01-0.012%	0.04-0.05%	As per size of tree	30
-------	--------	-------------	------------	---------------------	----

THIOCYCLAM HYDROGEN OXALATE

Rice	Stem borer, Leaf folder	500	1000	500	30
------	-------------------------	-----	------	-----	----

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 (<i>Helicoverpa spp.</i>) & (<i>Maruca spp.</i>)	468-562	625-750	375-500	17
Pigeon Pea	Pod Borer	470-750	625-1000	500	30

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	Shoot fly	3.0	10.0		
Chilli	Thrips	2.1	7.0		
Okra	Jassids	1.7	5.7		
Maize	Stem Fly	2.4	8.0		
Sunflower	Jassids, Thrips	3.0	10.0		

THIAMETHOXAM 70% WS

Cotton	Aphid, Thrips whiteflies, Jassids	300	430		Use as seed dresser at the time of sowing
Okra	Aphids, Jassids	200	286		
Tomato	Aphids & Thrips	420	600		

Sunflower	Jassids & Thrips	280	400	
Wheat	Termites & Aphids	121	175	
Maize	Shoot fly & Aphids	245	350	
Rice	Thrips & Green Leaf Hopper	105	150	

THIAMETHOXAM 75% w/w SG					
Groundnut	Termites	94	125	500-1000	57
Sugarcane	Termites & Early shoot borer	120	160	500-1000	230
Rice	Green Leaf Hopper & Brown Plant Hopper	113	150	Dissolve in 500ml Water and mix With 20 Kg sand/ha	60
Cotton	Jassids & Thrips	94	125	50-100ml/plant	109

THIAMETHOXAM 25% WG					
Rice	Stem borer, Gall midge, Leaf folder, WBPH, BPH, 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	Aphids -foliar application -Soil drench	25	100	500	77
		50	200	400-500	77
Citrus	Psylla	25	100	1000	20

Rice-Nursery (Soil Drenching)	Green Leaf Hopper, Thrips & Whorl Maggot	500	2000	250 ml/sq. mtr	86
----------------------------------	---	-----	------	----------------	----

THIOMETON 25%EC

Brinjal	Aphid & Jassid Fruit and Shoot borer	250	1000	750-1000	-
---------	---	-----	------	----------	---

TOLFENPYRAD 15% EC

Cabbage	Diamond Back moth, Aphids	150	1000	500	5
Okra	Aphids, Jassids, Thrips and white fly	150	1000	500	3

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

TRICHLORFON 5% DUST

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

TRICHLORFON 50% EC

Castor	Pod borer	2000 gm.
--------	-----------	----------

Groundnut	Red hairy caterpillar	500 gm.
Wheat	Army worm, Cut worm	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.

TRIAZOPHOS 20% EC					
Rice	Stem Borer, Leaf Folder, Hispa, Green leaf hopper, Brown plant hopper, White backed plant hopper	250-500	1250-2500	500	40

Triazophos 20% WG					
Rice	Stem Borer, Leaf Folder, Hispa, Brown plant hopper	300	1500	500	18

TRIAZOPHOS 40% EC					
Cotton	Bollworms (Pink and spotted), whitefly	600-800	1500-2000	500-1000	21
Rice	Stem Borer, Rice Hispa, Leaf Folder, Green leaf hopper, Brown plant hopper, White backed plant hopper.	250-500	625-1250	500-1000	40
Soybean	Stem borer, Girdle beetle, Leaf miners	250	625	500	30

VERTICILLIUM LECANII 1.15%WP				
Cotton	White flies	2500 (formulated)	500 litres of water	-
Citrus	Mealy bug	2.5kg	500-550L	-

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 melstade</i> , <i>tatera indica</i> , <i>Meriones hurrianae</i> , <i>Mus platythrix</i> , <i>Mus musculus</i> , <i>Rattus</i>	1.5-2.5% active ingredient in bait	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 points.

COMBINATION PRODUCT

Acephate 50% + Bifenthrin 10 % WDG					
Cotton	Leaf hopper Thrips, Bollworms	400+80	800	500-750	20

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

Acetamiprid 0.4% + Chlorpyrifos 20% EC					
Paddy	Stem borer, Brown Plant Hopper(BPH), White Backed Plant Hopper (WBPH)	10+500	2.5	500-800	10

Acetamiprid 1.1% + Cypermethrin 5.5% EC					
Cotton	Aphids,Jassids,Thrips Bollworms	10+50	1000	400-1000	30days

Betacyfluthrin 8.49% + Imidacloprid 19.81% OD					
Brinjal	Aphids, Jassids shoot & fruit borer	15.75+36.75 18 + 42	175-200	500	7

Buprofezin 9% + Acephate 24% w/w WP					
Rice	Brown Plant Hopper	54+ 144	600	500	20

Buprofezin 15% + Acephate 35% w/w WP					
Paddy	BPH, WBPH	187.5+ 437.5	1250	500	20

Buprofezin 20% + Acephate 50% w/w WP					
Paddy	Stem Borer, Leaf Folder & Brown Plant Hopper	Buprofezin-200 & Acephate-500	1000	500	20

Buprofezin 22% + Fipronil 3% SC					
Rice	Brown Plant Hopper	110 + 15	500	400 - 500	32

Cypermethrin 10% + Indoxacarb 10% w/w SC					
Cotton	Jassids, Thrips and Bollworm	50+50	500	400-1000	7

Cypermethrin 3% + Quinalphos 20% EC					
Brinjal	Shoot & Fruit borer		350-400	500-600	7
Cotton	Americal bollworm Spotted bollworm Jassids		1000-1250	500-600	15

Chlorpyrifos 50% + Cypermethrin 5%EC					
Cotton	Aphid, Jassids, Thrips, Whitefly, <i>Spodoptera litura</i> , 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

Deltamethrin 0.72% w/w + Buprofezin 5.65% w/w EC					
Rice	Brown plant Hopper, Leaf folder	0.78+62.5 – 0.94+75.0	1250+1500	500	30

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

Emamectin Benzoate 1.5% + Fipronil 3.5% SC						Re-entry period after each application (Hrs)
Chilli	Thrips & Fruit borer	(7.50+17.50) - (11.25+26.25)	500-750	500	3	48

Ethion 40% + Cypermethrin 5% w/w EC					
Cotton	American bollworm	400+50	1000	500	15

Ethiprole 40 + Imidacloprid 40%WG					
Rice	BPH WBPH	37.5+37.5 50+50	93.75 125	375 375	15

*Endosulfan 35% + Cypermethrin 5% EC					
Cotton	Bollworms	875 + 125	2500	500-1000	15

Endosulfan*:- Endosulfan has been banned by the Supreme Court of India w.e.f. 13-05-2011 for production, use & sale, all over India, till further orders vide ad-Interim order in the Writ Petition (Civil) No. 213 of 2011.

Fenobucarb 20% + Buprofezin 5% w/w SE					
--	--	--	--	--	--

Paddy	BPH GLH	400+100	2000	500	30
-------	------------	---------	------	-----	----

Flubendiamide 4% + Buprofezin 20% w/w SC

Paddy	Yellow stem borer, Leaf Folder, BPH	35+175	175+700	500	30
-------	-------------------------------------	--------	---------	-----	----

Flubendiamide 3.5% + Hexaconazole 5% w/w WG
--

Paddy	Stem borer, Leaf folder	35+50	1000	500	20
-------	-------------------------	-------	------	-----	----

Flubendiamide 19.92% w/w+ Thiacloprid 19.92% w/w

Chilli	Thrips Fruit borer	48+48-60+60	200-250	500	5
--------	-----------------------	-------------	---------	-----	---

Fipronil 40% + Imidacloprid 40% WG

Sugarcane	White grub (<i>Holotrichia consanguinea</i>)	175+175-200+200	437.5-500	1000-1250	296
-----------	--	-----------------	-----------	-----------	-----

Fipronil 4% + Acetamiprid 4% W/W

Cotton	Aphid, Jassids & White fly	40+40	1000	500	30
--------	----------------------------	-------	------	-----	----

Fipronil 4% + Thiamethoxam 4% w/w SC

Rice	Brown Plant Hopper, Green Leaf Hopper & White Backed Plant Hopper	44+44	1100	500	45
------	---	-------	------	-----	----

Imidacloprid 18.5% + Hexaconazole 1.5% FS
--

Groundnut	Termites, Thrips, Jassids, Root grubs, Collar rot, Stem rot, Tikka leaf spot & Rust	Imidacloprid : 37 & Hexaconazole : 3	200	Not Applicable	This is used as seed dresser
Wheat	Termites, Aphids, Smut & Rust	Imidacloprid : 37 & Hexaconazole : 3	200		

Imidacloprid 6% + Lambdacyhalothrin 4% SL					
Paddy	Stem borer, Hispa, Plant Hopper & Gandhi Bug	18+12	300	500	10

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 - 45.94 + 39.38	825-875	500	5

Phosphamidon 40% + Imidacloprid 2% SP					
Paddy	Brown plant hopper, Green leaf hopper, Stem borer	252-294	600-700	750	22

Profenofos 40% + Cypermethrin 4% EC					
Cotton	Bollworm complex	440-660	1000-1500	500-1000	14

Profenofos 40% + Fenpyroximate 2.5%w/w EC					
Chilli	Thrips, Mites & Borer	0.4+0.025	1000	500	7

Pyriproxyfen 5% EC + Fenprothrin 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

Pyriproxyfen 5% EC + Fenprothrin 15% EC					
Cotton	Whitefly	60+60	600	500	19

Pyriproxyfen 10% + Bifenthrin 10% w/w EC					
Cotton	Whitefly	60+60	600	500	19

Spirotetramat 11.01% w/w + Imidacloprid 11.01% w/w SC					
Okra	Red Spider Mites	60+60	500	500	3
Brinjal	Whitefly & Red Spider Mites	60+60	500	500	5

Thiamethoxam 12.6% + Lambda cyhalothrin 9.5% ZC:					
Cotton	Jassids, Aphids & Thrips and Bollworm	44	200	500	26
Maize	Aphid, Shootfly, Stem borer	27.5	125	500	42
Groundnut	Leaf hopper Leaf eating caterpillar	27.5	150	500	28
Soybean	Stem fly, Semilooper Girdle beetle	27.5	125	500	48
Chilli	Thrips, Fruit borer	33	150	500	3
Tea	Tea Mosquito bug, Thrips & Semilooper	33	150	400	1

Tomato	Thrips, Whiteflies & Fruit borer	27.5	125	500	5
--------	----------------------------------	------	-----	-----	---

Acetamiprid 0.4%+Chlorpyrifos 20% EC

Paddy	Stem Borer, BPH & WBPH	10+500	2.5	500-800	10
-------	------------------------	--------	-----	---------	----

Cypermethrin 10% + Indoxacarb 10%SC:

Cotton	Jassids, Thrips & Bollworm	50+50	500	400-1000	7
--------	----------------------------	-------	-----	----------	---

Chlorantraniliprole 9.3% + Lambda Cyhalothrin 4.6% ZC:

Pigeon pea	Pod borer	30.0	200	500	18
Cotton	Bollworms complex	37.5	250	500	20

Chlorantraniliprole 0.5 % w/w + Thiamethoxam 1.0 % w/w GR:

Rice	Stem borer Leaf Folder Brown Plant Hopper Green Leaf Hopper	30+60	6Kg/ha.	-	60 days
------	--	-------	---------	---	---------

Chlorantraniliprole 8.8% w/w + Thiamethoxam 17.5 % w/w SC:

				Application method		Application time	
Tomato	Leaf Miner, Whitefly & Fruit borer	150	500	Soil drench (Single application)	50-100 ml/plant	8-10 days after transplanting	36 days

Public health use

ALPHACYPERMETHRIN 5 % WP				
Pest	Habitat	a.i. (mg/m²)	Formulation (gm)	Dilution (Ltr.)
Adult Mosquito		25 (2 cycles application to repeat after 3 month)	Dilute 250 gm of Alphacypermethrin 5 % WP in 10 litre of water to cover 500 sq m area.	250
		40 (single cycle application)	Dilute 250 gm of Alphacypermethrin 5 % WP in 10 litre of water to cover 500 sq m area.	400

ALPHACYPERMETHRIN Impregnated long lasting nets 0.667% w/w (200 mg/m²) (For Import only)	
Ready to use Impregnated Bed Net	To control mosquitoes under Public Health

AZADIRACHTIN 0.15% EC				
Pest	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 5.0 933.3	1 .0 5.0 933.3	10.7 m ² 53.6 m ² 1 hectare

BACILLUS SPHAERICUS 1593 M SERO TYPE H 59 5B				
<i>Anophles sp.</i> <i>Culex sp.</i>	For Drains, Cesspits Cesspools, paddy fields, ponds. Camsuarina pits, unused wells, unused overhead tanks, Domestic wells (Not for drinking requirements)	112	1 ltr/10 ltr of water	-

BACILLUS THURINGIENSIS var. Israelensis 0.5% WP					
Mosquito spp.	Anopheles, Culex and Aedes (Habitat-CEMENT Tank, Coolers, Drains, pool pits, Highly polluted underground tanks, Container Drums and Tyres.)	0.75mg/m ²	-	200	-

BACILLUS THURINGIENSIS var. Israelensis 5% WP.					
Mosquito spp.	Anopheles, Culex and Aedes (Habitat-CEMENT Tank, Coolers, Drains, pool pits)	0.75g/m ²	7.50kg/ha..	200 L	-
	Highly polluted water (underground tanks, Container Drums and Tyres.)	1.00g/m ²	10.00 kg/ha.	200 L	-

BACILLUS THURINGIENSIS var. Israelensis WP.			
Name of insect	Dosage/ha		Interval between application
	a.i. (gm)	Formulation (Kg.)	
<i>Anopheles</i> and <i>Culex</i> sp. (larvae)		2 – 5 Kg/ha	2-4 weeks

BACILLUS THURINGIENSIS VAR-ESRAELENIS , 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/m²)	Formulation (gm)/500 m²	Dilution in Water (Litre)
Adult Mosquito	25 (2 rounds of spraying 3 months apart)	125	Dilute 125 gm of Bifenthrin 10% WP in 10 liters of water to cover 500m ² area.

Bti 12% AS (Vectobac)		
Anopheles sp.	Clean water, cement tanks	1-2 ltrs.
Culex sp.	Polluted water, cess pits, cement tanks, stagnant and flowing drains	2-4 ltrs.

CHLORPYRIPHOS METHYL 40% EC	
--	Used to control of adult vector mosquitoes

CYFLUTHRIN 10% WP			
Common name of pest	Dosage		
	a.i mg .m²	Formulation (gm)	Dilution
Under public Health programme (Adult mosquitoes)	25 (2 cycles Application to be Repeated after 3mths.	250	Dilute 250 gm of Cyfluthrin 10 WP in 10 litres of water to cover 500 m ² area.
	40 (single cycles application)	400	Dilute 400 gm of Cyfluthrin 10 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 0.15% + Pipro0nyl 0.55%		
Insects	a.i. gm/m	
Adult mosquitoes	Mosquitoes control under Public Health	

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
	Ultra low volume application	0.5	50	0.5

DELTAMETHRIN 2.5 % WP				
Insect	Method of application	Dosage per hectare		
		a.i. (gm)	Formulation (ml)	Dilution in diesel Oil (Litre)
Adult Mosquitoes	For public health purpose only	625-1250 mg/50 sq.m	25-50 g/50 sq.m	1.5-2.5 Ltr./50 sqm

DELTAMETHRIN IMPREGNATED BED NET 55MG/M2 (For Import only)	
Ready to use insecticide Impregnated Bed net	Mosquitoes control under Public Health

DIFLUBENZURON 2% GR.			
Name of the	Habitat	Dosage/ha (Kg)	Waiting period
Mosquito larvae	Water bodies (Cess pits, Drains, & Disused wells and pools)	1.25 – 3.0	-

FENTROTHION 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	95	115	200
larvae	(surface : up to 10 cm depth)		
	412	500	200
	(surface : up to 0.5 Meter depth)		
Adult mosquitoes	124	150	200
Flies	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. m			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

NOVALURON 10%EC

Place of Application	Insect	Dosages		
		a.i. (gm)	Formulation (ml)	Waiting Period
Clean surface water	<i>An. Stephensi</i> <i>An. Aegypti</i>	30	0.03ml/m ²	--
Polluted Surface water	<i>Culex quinquefasciatus</i> and <i>An. Subpictus</i>	60	0.06ml/m ²	--

PYRIPROXYFEN 0.5% GR.

Breeding habitats	Dosage/ha		Interval between application
	a.i. (gm)	Formulation (Kg.)	
Clean water/ domestic containers	10 (0.01ppm)	2.00	8 weeks
Polluted/ Peri-domestic breeding habitat	20 (0.02ppm)	4.00	8 weeks

PIRIMIPHOS METHYL 50%EC

Location	Name of the p	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 (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

ALPHAMETHRIN 0.1 w/w (RTU)		
Common name of pest	Dose /sq. m- a.i (mg)	Formulation (ml)
Cockroaches, Adult mosquitoes, Adult houseflies	25-50	25 - 50

ALPHACYPERMETHRIN 0.5% Chalk	
Ready to use household insecticides	To control cockroaches.

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

ALLETHRIN 0.5% Mosquito Coil	
Ready to use household insecticides	To control of adult mosquitoes

ALLETHRIN 0.2% Coil Adult Mosquitoes	
Ready to use household insecticide.	To control of mosquito.

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

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

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

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

BIFENTHRIN 0.05% Mosquito coil (8 hours Min.)	
Ready to use household insecticide.	Used to control adult mosquitoes.

CYFLUTHRIN 10% WP	
Common name of	Dosage

pest	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 house	20	0.200	
Flies & Mosquitoes (in house)			

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 Cyfluthrin 10% 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.

CHLORPYRIPHOS METHYL 40% EC
Used to control adult mosquitoes

CYPHENOTHHRIN 7.2% W/W VP (For use by pest control operator only)	
Common name of pest	
American Cockroaches & German Cockroaches	To control of American Cockroaches & German Cockroaches (In house)
CYPERMETHRIN 3% Smoke Generator	
Ready to use household insecticide.	To control Cockroaches in house, hotels & warehouse.

CYPERMETHRIN 1.0% Dust	
Ready to use household insecticide.	To control Cockroaches in house.

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

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
--------------	---	-------	-----	---

CYFLUTHRIN 0.025% + TRANSLUTHRIN 0.04% Aerosol	
Ready to use	Used for controlling /repelling Mosquitoes. Houseflies & cockroaches in homes.

DELTAMETHRIN 2.5% Flow			
Name of insect pe	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 2.5% WP				
Name of insect pe	Habitat	Dosage /m ² area of bed net		
		a.i.	Formulation	Dilution in water
Lesser grain borer Rice moth,Saw toothed grain beetle,Red flour beetle, Khapra beetleAlmond moth	(Grain and seeds in stacks)	30 mg/sq.m	1.2 g/sq.m	1 ltr.for 30 sq.m
Rice weevil	(Grain and seeds in stacks)	30 mg/sq.m	1.2 g/sq.m	1 ltr.for 30 sq.m
Rice weevil	Walls,ceilings & floor of godowns	30 mg/sq.m	1.2 g/sq.m	1 ltr.for 30 sq.m

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 20%+ DELTAMETHRIN 2% SC			
Name of the insect pest	Habitat	Dosage/ha (Kg)	Waiting period

House fly maggot	Poultry Manure and kitchen garbage	1.50-2.00 ml/ltr. Water (5 litre of water / 10 sq.m Area)	-
------------------	------------------------------------	---	---

Diflubenzuron 25% WP			
Name of pest	Habitat	Dosage	Dilution in water
Mosquitoes Larvae	Clean surface water, Polluted surface water Sewage pits, soak pits, latrines, septic tanks.	25-50 gm a i /ha 50-100gm a i /ha 1 mg a i / liter.	
House fly maggots control	In poultry manure Garbage, Filth & dumping areas	5.0 gm/10 sq m	5 liters water/10 sq m.

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	To control cockroaches, mosquitoes and flies.

DELTAMETHRIN 0.5% w/w Chalk	
Ready to use household insecticide	To control Cockroaches, ants and bedbugs.

D-Trans Allethrin 0.1% w/w + Permethrin 0.03% w/w + Imiprothrin 0.02% w/w Aerosol (All Insect Killer Aerosol)	
Ready to use	To control cockroaches, mosquitoes and house flies.

DELTAMETHRIN 1%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. meter. Two coats of insect control paint are recommended giving 18 hours of drying between the coats.

DIAZINON 25% Micro Encapsulation	
House Hold Insecticide	Recommended for use for control of Cockroaches, houseflies and mosquitoes in houses. To control Cockroaches in house.

D-TRANS ALLETHRIN 2% Mosquito Mat	
Ready to use household insecticide.	To control Adult Mosquitoes in house.

D-TRANS ALLETHRIN 0.1% 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 Mos. Mat.	
Used to control Adult Mosquitoes	Open Area like Park, Garden and Farm Houses etc only.

Emamectin Benzoate 0.1% w/w Gel Bait			
Common name of Insect/Pest	Gram a.i. Dose	Formulation Dose	Application Usage s
American Cockroach (<i>Periplaneta americana</i>)	0.001 g a.i. per square meter	1 .0 gram of gel bait per square meter (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 harbourage 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. per square meter	1.0 gram of gel bait per square meter (1 - 2 spots)	

FENTHION 2% Spray	
Ready to use household insecticide.	To control of Cockroaches, Bed bugs, Flies & Mosquitoes.

FENITROTHION 20% OL			
Pest	a.i. (gm)	Formulation (ml)	Instruction for use
Bedbug (<i>Cimex spp</i>)	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.

IMIPROTHRIN 0.1% + CYPHENOTHIN 0.13% w/w	
Ready to use	Used for controlling cockroaches in homes.

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

IMIPROTHRIN 0.05% + CYPERMETHRIN 1.0% CL	
Ready to use	Used for controlling cockroaches in houses.

Imidacloprid 0.03% w/w Gel	
Species	Recommended Dose
Pharaoh ant (<i>Monomorium pharaonis</i>)	Low infestation level (one spot of 200 mg/m ² of infested area).
Small black ant (<i>Monomorium indicum</i>)	Moderate to high infestation level (one spot of 300 mg/m ² of infested area).
Crazy ant (<i>Paratrechina longicomis</i>)	
Ghost ant (<i>Tapinoma melanocephelum</i>)	
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 2.15% w/w GEL

Ready to use household insecticide.	Used to control of German & American Cockroaches.
-------------------------------------	---

IMIDACLOPRID 21%w/w + Beta Cyfluthrin 10.5 % w/w SC

Name of Insect pests	Places	Dosage
American Cockroaches & German Cockroaches	Private Houses,Factories,Offices,Market places,Restaurants,Hotels,Shopes,Ships, Hospital etc.	Diluter 4 ml of Imidacloprid 21%w/w + Beta Cyfluthrin 10.5 % w/w SC with 1 L of water. Apply 50 ml of this solution to spray per square meter area or apply 1 L of this solution cover 20 square meter area

LAMBDA CYHALOTHRIN 0.5% Chalk

Ready to use household insecticides	Used to control 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 liter of water
Porous surfaces – Mosquitoes House flies & Cockroaches	25	& spray the solution uniformly @ 25 ml /m ² on non porous & @ 50 ml /m ² on porous surfaces.

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
<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			
Name of pest	Dosage per sq. m		
	a.i. (mg)	Formulation (ml)	Dilution in water
<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.

MALATHION 2% House Hold Spray	
Ready to use	To control of Bed, Bugs, Flies, Ants, Mosquitoes, Gnats, Moths, Cockroaches in houses.

METOFLUTHRIN 0.005% (Mosquito Coil)-Min. 7 Hrs. Burning time	
Ready to use household insecticide.	To control of mosquitoes in houses.

PERMETHRIN 2% w/w (Olyset@Net) for Import only	
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.

PROTEAMPHOS 1% Spray	
Ready to use household Insecticide.	To control of Cockroaches, Bed bugs, Flies, fleas, Mosquitoes & silverfish.

PROPOXUR 0.75% + CYFLUTHRIN 0.025% Aerosol	
Ready to use household insecticide.	Cockroaches , Mosquitoes & houseflies

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

PIRIMIPHOS METHYL 1% spray			
Location	Pest	Dosage	Explosure period (min. hrs.)
Spot spray in houses	Cockroaches , bed bugs, flea etc.	100 ml/1m ²	1
Space spray in houses	Mosquitoes, houseflies	50 ml/100m ³	1

PYRETHRIN 0.05% + MALATHION 1%	
Insects	Used to control of Cockroaches, Mosquitoes, Flies

PROPOXURE 2% Bait	
Ready to use household insecticides	Used to control of cockroaches and flies.

PYRETHRIN 0.2% w/w	
Ready to use household insecticide.	To control of cockroaches, houseflies & mosquito.

PROPOXURE 1% Spray	
Ready to use household insecticide.	Used to control of cockroaches and house flies, adult mosquitoes.

PRALLETHRIN 1% w/w Red Mosquitoes Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes.

PRALLETHRIN 0.04% Coils (Min.11Hrs) (label expansion)	
Ready to use household insecticide.	Used to control mosquitoes in Houses

PRALLETHRIN 0.04% Coils (Min.6Hrs) (label expansion)	
Ready to use household insecticide.	Used to control mosquitoes in Houses

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

PRALLETHRIN 0.5% w/w Mosquitoes Coil	
Ready to use household insecticide.	Used to control of adult mosquitoes.

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

PRALLETHRIN 0.04% 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 2.4% w/w Liquid	
Ready to use household insecticide.	Used to control of Mosquitoes.

S – BIOALLETHRIN 2.4% Mosquitoes Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes.

THIAMETHOXAM 0.01 %W/W GEL BAIT			
Common Name of the Insect/Pest	Dose g.a.i.	Formulation Dose	Application/Usage
Black Carpenter Ants (Camponotus spp.)	0.0001g.a.i. per spot (2-4 spots per square meter)	1.0 gram 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 harbourage or aggregation areas, such as corners areas where ants forage or crack and crevices, holes, hidden surfaces any other places where ants are typically known to hide.

TRANSLUTHRIN 0.88% & 1.6% Liquid Vaporizer	
Ready to use household insecticide.	Used to control of adult mosquitoes and house fly.

TRANSLUTHRIN 1.6% Liquid Vaporizer (For 30 Nights (25 ml))	
Ready to use household insecticide.	Used to control of adult mosquitoes.

TRANSLUTHRIN 20% w/w MV Gel	
Ready to use household insecticide.	Used to control of Mosquitoes in the house.

TRANSLUTHRIN 0.03% w/w Mosquito Coil	
Ready to use household insecticide.	Used for controlling / repelling of Mosquitoes in the house.

TRANSLUTHRIN 1% EU (Smoke generator)	
Use / recommendation	It is used for controlling/repelling adult mosquitoes in the houses (Effective for 6 hrs.)

TRANSFLUTHRIN 1.2% Liquid Vaporizer (For 60 Nights (45 ml) & 90 nights (67ml.)	
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 1% bait (Household Product)	
To be ready to use household insecticide	To control Rats