AGRO CHEM FEDERATION OF INDIA

APPROVED & REGISTERED CROP PROTECTION CHEMICALS IN INDIA, 2023



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Crop Protection Chemicals

India

2023

Kisan Kalyan Karyakaram

Publisher

Agro Chem Federation Of India

UNDER KISAN KALYAN KARYAKARAM

AGRO CHEM FEDERATION OF INDIA
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Disclaimer:

This document has been compiled on the basis of available information for guidance and not for legal purposes. Information has been extracted from the available information on the Pesticide Regulatory Authority website www.ppqs.gov.in

Designed By: Ms. Simranjeet Kaur, Sr. Public Relations Officer (ACFI)

INTRODUCTION

This handbook is meant primarily for persons involved in extension or have a desire to keep themselves abreast of regulatory decisions taken by the pesticide regulatory authorities in the country regarding crop protection chemicals (pesticides), Fertilizers etc.

The handbook is a compilation of the **Major Uses of Pesticides** as approved by the Registration Committee. A knowledge gap had been observed amongst the Research & Extension Personnel, both at the Academic level as well as the State level, to bridge the same, ACFI has published this compilation of the major use of pesticides as approved by the registration committee.

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Chairman, Technical & Regulatory Committee



Agro Chem Federation of India (ACFI) reiterates our commitment towards promoting the safe and judicious use of crop protection chemicals and work towards sustainability of Indian Agriculture. As an industry body, we are facilitating the crop protection chemical industry on policy front as well as through various other initiatives for the overall benefit of the industry. We are also working closely with various other stakeholders like Central and State Government departments, regulatory authorities, state agriculture universities, farmers etc. for the growth of Indian agriculture and Indian farming community.

In this endeavour, every year ACFI is publishing a compiled book on crop protection chemicals that have been approved and registered in the country under Insecticides Act., 1968 and Insecticides Rules, 1971. We have attempted to make a sincere effort to sensitize extension functionaries about the recommended uses of approved and registered crop protection chemicals in India. Apart from that, we have tried to enlist various other information / details about different aspects related to crop protection chemicals and also other useful details. Not only the compilation of these in a handbook form will be helpful for providing a ready reference to all concerned stakeholders in the country, but also help the farmers to identify the approved crop protection chemicals along with their role in controlling specific pest/ diseases by using recommended dose at right time with the appropriate application methodology, which will help in promoting good agriculture practices in the country.

I hope that the efforts made by ACFI for the compilation of the "Approved & Registered Plant Protection Chemicals -2023" will help the industry, Government, farmers and other stakeholders to promote the safe and Judicious use of crop protection chemicals.

Jitendra Mohan,
Chairman Technical and Regulatory Committee, ACFI

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Director General Message



The Handbook of Agro Chem Federation of India (ACFI) on the "Approved and registered Crop Protection Chemicals in India, as of 2023" serves as the quick reference guide for all the essential data related Indian Agro Chemical sector. Its concise format and wide coverage of data makes it a much important publication for Agro Chemical stakeholders.

This 4th edition of the book, take forward our continuous endeavour to incorporate information on the ever-growing Agro Chemical Industry. This edition includes updated information on all the key products Crop Protection Chemicals and their usage. The use of specific pesticides approved to be used for the control of specific pest/ diseases, need to be applied at the right time in right dose with the appropriate pesticide spray/ application methodology to ensure the safety precautions by the end user.

The earlier editions received inspiring appreciations from the Crop protection chemical fraternity. We are committed to take out the updated edition every year for the benefit of the stakeholders.

Dr. Kalyan Goswami
Director General
ACFI

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- Root-O-Max Gold (Soil care & root nourishment)
- Indo Apache (Fruit care)
- Empire (Flower care)

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- Ankur Gold (Silicone adjuvants)

FERTILIZER
- Zinc Super (Micro elements mixtures)
- Pradhan (Macro elements mixtures)
- Picaso (Chelates elements mixtures)

TECHNICALS

INSECTICIDE
Abamectin
Acetamiprid
Bifenthrin
Chlorantraniliprole
Dinotefuran
Fipronil
Imidacloprid
Lambda Cyhalothrin
Pymetrozine
Spiromesifen
Thiamethoxam

HERBICIDE
Atrazine
Bispyribac Sodium
Clodinafop-Propargyl
Metribuzin
Pretilachlor
Pyrazosulfuron Ethyl
Sulfosulfuron
Tembotrione

FUNGICIDE
Azoxystrobin
Difenoconazole
Tebuconozole

PGR & OTHERS
Cloquintocet Mexyl
Gibberellic Acid
Paclobutrazole

VETERINARY
Cypermethrin 10% EC
Permethrin 25% EC
Deltamethrin 2.5% EC

PUBLIC HEALTH
25 Registrations

CROP PROTECTION

INSECTICIDE 325 Registrations

FUNGICIDE 156 Registrations

HERBICIDE 134 Registrations

PGR 17 Registrations

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REGULATORY
- Available GLP Registrations data.
- Biostimulant Data under process.
- Products registered in OECD countries.

IPR
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INDEX

S.No.	Category	Page
1	Bio-Insecticides	1-17
2	Bio-Pesticides	18-36
3	Fungicides	37-90
4	Herbicides	91-142
5	Insecticides	143-233
6	Plant Growth Regulators (PGR)	234-247
7	Insecticides Registered Under Section- 9(3), of Insecticide Act 1868	248-257
8	Pesticides and Formulations Registered For Use In the Country Under the Insecticides Act,1968	258-282
9	Source of import And List of Indigenous manufacturers of Insecticides	283-367
10	List of various Approved pesticides for Control of Desert Locust	368
11	List of Pesticides Which Are Banned Refused Registration And Restricted In Use	369-373
12	List Of Insecticides Under Schedule	374-426
13	List of Dual / Multi use Insecticides as per Insecticides Schedule	427
14	Food Safety and Standards (Contaminants, Toxins and Residues) Regulation	428-448
15	Classification of Pesticides based on Acture Oral & Demal LD50 Values	449
16	Antidotes for Pesticide Poisoning	450-452
17	Jago Kisan Jago Campaign	453-454
18	Important Contacts	455-469
19	ACFI Members Details	470-474
20	ACFI Secretariat	475

MAJOR USES OF PESTICIDES

(Registered under the Insecticides Act, 1968)

(Based on certificate issued)

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

BIO-INSECTICIDES

1. Major uses of Bio-insecticides
2. Public health use

1. MAJOR USES OF BIO-INSECTICIDES					
Name of crop	**Name of Insect**	**Dose/ha**		**Dilution in water (liter/ha)**	**Waiting period (Days)**
		a.i. (g)	**Formulation (g/ml)/%**		
Azadirachtin 0.15% EC w/w Min. Neem Seed Kernel Based					
Cotton	White fly, Bollworms	-	2500-5000	500-1000	05
Rice (Paddy)	Thrips, Stem borer, Brown plant hopper, Leaf folder	-	1500-2500	500	05
Azadirachtin 00.30% EC (3000 PPM) Min. Neem Seed Kernel Based					
Cotton	American bollworm	-	4000	1000	05
Azadirachtin 01.00% EC Min. Neem Based					
Tea	Thrips	-	400-500	450	01
	Red spider mites	-	400-500	600	01
Azadirachtin 01.00% EC (10000 PPM) Min. Neem Based					
Tomato	Fruit borer (*Helicoverpa armigera*)	-	1000-1500	500	03
Brinjal	Shoot & fruit borer (*Leucinodes orbonalis*)	-	1000-1500	500	03
Azadirachtin 00.03% EC Min. Neem Oil Based					
Cotton	Bollworm (*Helicoverpa armigera*), Aphids	-	2500-5000	500	05
Rice (Paddy)	Leaf roller, Stem borer, Brown plant hopper	-	2000	1000	05
Azadirachtin 00.03% WSP (300 PPM) Neem Oil Based					
Bengal Gram (Gram or Chickpea)	Pod borer (*Helicoverpa armigera*)	-	-	-	07
Red Gram (Tur or Arhar)	Pod borer (*Melanagromyza* sp.)	-	2500-5000	500-1000	07

Cotton	Aphids, Jassids, Whitefly, Bollworms	-	2500-5000	500-1000	07
Okra (Bhindi)	Fruit borer, Whitefly, Leaf Hopper	-	2500-5000	500-1000	07
Brinjal	Shoot & Fruit borer, beetles	-	2500-5000	500-1000	07
Cabbage	Aphids, Diamond back moth, Cabbage worm, Cabbage looper	-	2500-5000	500-1000	07
Jute	Semi looper, Hairy caterpillar	-	2500-5000	500-1000	07
Azadirachtin 05.00% w/w Min. Neem Extract Concentrates					
Tea	Caterpillar, Pink mite, Red spider mites, Thrips	-	200.0	400	05
Tobacco	Tobacco caterpillar, Aphids	-	200.0	400	05
Rice (Paddy)	Brown plant hopper, Leaf folder, Stem borer	-	200.0	400	05
Cotton	Whitefly, Leaf hoppers, *Helicoverpa armigera*, Aphids	-	375.0	750	05
Cauliflower	*Spodoptera*, Diamond back moth, Aphids	-	200.0	400	05
Bhindi (Okra)	Leafhopper, whitefly, Aphid, Pod borer	-	200.0	400	05
Tomato	Aphids, Whitefly, Fruit borer	-	200.0	400	05
***Bacillus thuringiensis* var. galleriae 1593 M serotype H 59 5b, 1.3% flowable concentrate Potency 1500 IU/mg**					
Cabbage & Cauliflower	Diamond back moth (*Plutella xylostella*)	-	06-1.0	500	-
Tomato	Fruit borer (*Helicoverpa armigera*)	-	1.0-1.5	500	-
Bhindi	Fruit borer (*Earias* spp.)	-	1.0-1.5	500	-

(Okra)					
Chilli	Fruit borer (*Spodoptera litura*)	-	1.5-2.0	1000	-
Cotton	Bollworm (*Helicoverpa armigera*)	-	2.0-2.5	1000	-
Rice (Paddy)	Leaf folder (*Cnaphalocrocis medinalis*)	-	1.0-3.0	1000	-
Bacillus thuringiensis* var. *kurstaki					
Cotton	Bollworm	-	750-1000	750-1000	-
***Bacillus thuringiensis* var. *kurstaki*, serotype H-39, 3B, Strain Z-52**					
Cotton	Bollworms, *Spodoptera*	0.75-1.00	500-750	-	-
Rice (Paddy)	Stem borer & Leaf folder	1.50	500-750	-	-
Gram	*Heliothis* sp.	0.75	500-750	-	-
Pigeon Pea	*Heliothis* sp.	0.75	500-750	-	-
Soybean	*Spodoptera*, *Heliothis*, *Spilosoma*, Semilooper, Leaf miner	0.75	500-750	-	-
Tobacco	*Spodoptera, Heliothis*	1.50-2.00	500-750	-	-
Castor	Hairy caterpillar, *Achaea janata*	1.00	500-750	-	-
Teak	Defoliator (*Hyblaea puera*), Skeletonizer (*Eutectona machaeralis*)	0.25-0.50	500-750	-	-
***Bacillus thuringiensis* serovar *kurstaki* (3a, 3b, 3c) 5.0% WP Potency 55000 SU (*Spodoptera* unit based) ($5x10^7$ spore/mg)**					
Cotton	American Bollworm	25.00-50.00	500-1000	500-1000	-
	Spotted Bollworm	37.50-50.00	750-1000	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* 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)**					
Caster	Caster 5rustaki5r (*Achaea janata*)	-	0.25	250-300	-
***Bacillus thuringiensis* var. *kurstaki* 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1 NAIMCC-B-01118, Potency 13329 IU/mg min. U/s 9(3b)**					
Pigeon pea	Bollworm (*Helicoverpa armigera*)	-	1-1.25	1000	-
***Bacillus thuringiensis* var. *kurstaki* 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)**					
Caster	Caster 5rustaki5r (*Achaea janata*)	-	0.25- 0.375	250	-
***Bacillus thuringiensis* var. *kurstaki* 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 16000IU/mg min.**					
Chickpea	Chick pea pod borer (*Helicoverpa armigera*)	-	2.0	500	-
***Bacillus thuringiensis* var. *kurstaki* 2.5% AS (Spicbio-BTK AS)**					
Gram	Gram pod borer (*Helicoverpa armigera*)	-	1.0-1.5	500	-
Bacillus thuringiensis var. krustaki, Serotype H-3a, 3b, Strain Z-52 Potency:- 3000 IU/mg min – on Gypsy moth 32000 IU/mg min – *Trichoplusia* vi 50000 IU/mg min – *Helicoverpa armigera* 55000 IU/mg min – *Spodoptera exiqua*					
Cotton	Bollworms, Spodoptera	-	0.75-1.0 kg.	500-750	-
Rice	Stem borer & Leaf folder	-	1.50 kg.	500-750	-
Gram	*Helicoverpa armiger*	-	0.75 kg.	500-750	
Pigeon Pea	*Helicoverpa armiger*	-	0.75 kg.	500-750	-

Soyabean	*Spodoptera litura, Helicoverpa armigera*, *Spilosoma 6rustak*, Semilooper, Leaf miner	-	0.75 kg.	500-750	-
Tobacco	*Spodoptera litura*, *Helicoverpaarmigera*	-	1.50-2.00 kg.	500-750	-
Castor	Hairy caterpillar, Caster semilooper (*Achaea janata*)	-	1.00 kg.	500-750	-
Teak	Defoliator (*Hyblaea puera*), Skeletonizer (*Eutectona machaeralis*)	-	0.25-0.50% Sol.	As required.	-
***Bacillus thuringiensis* var. *kurstaki* Strain HD-1, serotype 3a, 3b, 3.5% ES for Import &repack. Potency17600 IU/mg**					
Cotton	Bollworms	-	750-1000	750-1000	-
***Bacillus thuringiensis* var. *kurstaki* Serotype 3a, 3b, SA II WG Potency:- 53000 SU/mg, 32000 IU/mg**					
Cabbage, Cauliflower	Diamond back moth	-	0.5 kg.	500-700	-
***Beauveria bassiana* 1.15% WP**					
Cotton	Bollworms	-	400	750-1000	-
***Beauveria bassiana* 01.15% WP**					
Cotton	Bollworm	-	2000	400	-
Rice (Paddy)	Leaf folder	-	2.50 kg/ha	750-850	-
***Beauveria bassiana* 1.15% WP. (1x10^8 /gm min) Strain BB-ICAR-RJP, Accession No – MCC 1022**					
Rice	Rice leaf folder (*Cnaphalocrocis medinalis*)	-	2.5 kg.	750-850	-
***Beauveria bassiana* 1.15% WP (Strain : BB – 5372, own R & D Isolate)**					
Rice	Rice leaf folder (*Cnaphalocrocis medinalis*)	-	2.5 kg.	600-750	-
***Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Strain ICAR, Research Complex, Umiam, Meghalaya, Accession No – NAIMCC-F-03045**					

Rice	Rice leaf folder (*Cnaphalocrocis medinalis*)	-	2.5 kg.	750-850	-
***Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Accession No – NAIMCC-F-03045, Strain No. NBAIM, MAU.**					
Rice	Rice leaf folder (*Cnaphalocrocis medinalis*)	-	2.5 kg/ha	750 liter/ha	-
***Beauveria bassiana* 1.15% WP (1x10^8 /spores/ml) Strain BCRL, Accession No – BCRL Bbpx-6892**					
Cabbage	Diamond back moth (*Plutella xylostella*)	1-1.5 litre	500-750	Apply using any type of sprayer (high, low or ultra low volume) which gives good coverage	NA
***Beauveria bassiana* 1.0% WP, Strain No: NBRI – 9947 (1x10^8 CFU/gm Min.)**					
Chick pea	Pod borer (*Helicoverpa armigera*)	-	3.0 kg.	500	-
***Beauveria bassiana* 1.0% WP (1x10^9 CFU/gm min), Strain No. IPL/BB/MI/01**					
Okra (Bhindi)	Fruit borer, Spotted bollworm	-	3.75-5.0 kg.	400-500	-
***Beauveria bassiana* 1.0% WP (1x10^8 CFU/gm min), Strain No. SVBPU/CSP/Bb-10, Accession No. ITCC-7520**					
Chick pea	Pod borer (*Helicoverpa armigera*)	-	3.0 kg.	500	-
***Beauveria bassiana* 5.0% WP, (1x10^8 CFU/gm min) Strain IARI, Accession No. ITCC-7353**					
Cabbage	Diamond back moth (*Plutella xylostella*)	-	2.0 kg.	500	-
***Beauveria bassiana* 5.0% SC, Strain: NBAII, Bangalore, Accession No. ITCC-7102, (Strain Isolated by Project Directorate of Bio-logical control, Bangalore)**					
Tomato	Fruit borer (*Helicoverpa armigera*)	-	500	500	-
***Beauveria bassiana* 5.0% AS Strain: BB-AAU-RJP Accession No. MCC – 1024**					
Tomato	Fruit borer (*Helicoverpa armigera*)	-	0.5	500	-

***Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Accession No – NAIMCC-F-03048**					
Chick pea	Gram Pod Borer (*Helicoverpa armigera*)	-	2500	500	-
***Beauveria bassiana* 10.00% SC**					
Cabbage	Diamond back moth	1-1.5	-	500-750	-
***Beauveria bassiana 1.5%* Liquid Formulation (CFU count 10X10^8) Accession No.MTCC-5171**					
Tomato	Fruit borer (*Helicoverpa armigera*)	2.0	Foliar spry	500	-
***Beauveria bassiana* 1.15% WP (1X10^6 CFU /gm min)**					
Cotton	Bollworm	20	-	400	-
***Metarhizium anisopliae* 1.15% WP (1x10^8 CFU/gm min) Accession No. MTCC – 5173**					
Rice	Brown plant hopper (*Nilapavata lungens*)	-	2.5 kg.	500	-
***Metarhizium anisopliae* 1.0% WP (1x10^8 CFU/gm min) Strain No. IPL/KC/44 (Own R & D Isolate), Accession No. 6895.**					
Brinjal	Shoot & Fruit borer (*Leucinodes orbonalis*)	-	2.5-5.0	500-750	-
***Metarhizium anisopliae* 1.15% WP (1x10^8 CFU/gm min) Strain No. AAI, Allahabad, Accession No. NAIMCC-F-03037.**					
Chickpea	Heliothis armigera	2.5	500	- -	--
***Metarhizium anisopliae* 10% GR (CFU count 1 X 10^8 /gm. min.) Strain BCRL– Me, Accession No. ITCC 6911**					
Crop	**Common name of the target organism**	**Dosage /ha/application**			**Waiting period**
		Formulation	**Method of application**		
Potato	White grub	60kg.	Mix ***Metarhizium anisopliae* (Grub –X 10% GR) with FYM @ 1 : 10 and apply at the root base by broadcasting method @ 6gm/m^2 (=60 kg/ha) along the furrows at the time of sowing and next after one month at the time of earthing up.**		NA

***Pseudomonas fluorescens* 1.0% WP (Strain No. IIHR-PF-2, Accession No. ITCC- B0034)**		
Tomato	Root-knot nematodes (*Meloidogyne* spp.)	Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens* 1.0% WP @ 50 gm/sq.m and apply *Pseudomonas fluorescens* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Brinjal	Root-knot nematodes (*Meloidogyne* spp.)	Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens* 1.0% WP @ 50 gm/sq.m and apply *Pseudomonas fluorescens* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Carrot	Root-knot nematodes (*Meloidogyne* spp.)	Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens* 1.0% WP @ 50gm/sq.m and apply *Pseudomonas fluorescens* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Okra	Root-knot nematodes (*Meloidogyne* spp.)	Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens* 1.0% WP @ 50gm/sq.m and apply *Pseudomonas fluorescens* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
***Trichoderma harzianum* 1.0% WP (Strain No. IIHR-TH-2 Accessions No. ITCC 6888)**		
Tomato	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma harzianum* 1.0% WP @ 20 gm/kg of seeds & nursery beds with the *Trichoderma harzianum* 1.0% WP @ 50 gm/sq.m and also apply *Trichoderma harzianum* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Brinjal	Root-knot nematodes (*Meloidogyne incognit*a)	Treat the seeds with *Trichoderma harzianum* 1.0% WP @ 20 gm/kg of seeds & nursery beds with the *Trichoderma harzianum* 1.0% WP @ 50 gm/sq.m and also apply *Trichoderma harzianum* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Carrot	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma harzianum* 1.0% WP @ 20 gm/kg of seeds and apply *Trichoderma harzianum* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.
Okra	Root-knot nematodes (*Meloidogyne*	Treat the seeds with *Trichoderma harzianum* 1.0%
	incognita)	WP @ 20 gm/kg of seeds and apply *Trichoderma harzianum* 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.

Gerbera	*Meloidogyne incognita*	Apply the Nemastin @ 50 gm/sq.m at the time of planting
Carnations	*Meloidogyne incognita*	Apply the Nemastin @ 50 gm/sq.m at the time of planting
Tuberose	*Meloidogyne incognita*	Apply 2 Kg Nemastin 1% Wp mixed in 2 tones of FYM per acre to the soil before planting
Banana	*Meloidogyne incognita*	Apply 2 Kg Nemastin enriched FYM @ 2 Kg/pant at the time of planting and at an interval of 3 months after planting for a period of one year
Acid lime	Citrus nematodes *(Tylenchulus semipenetrans)*	Apply 2 Kg Nemastin enriched FYM @ 2 Kg/pant at the time of planting and at an interval of 3 months after planting for a period of one year
Papaya	*Meloidogyne spp.* Reniform Nematodes *(Rotelenchulus reniformis)*	Apply 2 Kg Nemastin enriched FYM @ 2 Kg/pant at the time of planting and at an interval of 3 months after planting for a period of one year

PB Rope L

Crop	**Common name of pest**	**Dosage**			**PHI (Days)**
		a.i.(mg/dispenser)	**Pheromones dispensers**	**Recommended area of treatment in (Ha)**	
Cotton	Pink bollworm (*Pectinophora gossypiella*)	>140	9875	25	NA

***Trichoderma harzianum* 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)**		
Tomato	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seed with *Trichoderma harzianum* 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum* 1.5% WP @ 50gm/sq.m and also apply *Trichoderma harzianum* 1.5% WP @ 5kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Brinjal	Root-knot nematodes (*Meloidogyne incognit*a)	Treat the seed with *Trichoderma harzianum* 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum* 1.5% WP @ 50 gm/sq.m and also apply *Trichoderma harzianum* 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Carrot	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seed with *Trichoderma harzianum* 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum* 1.5% WP @ 50 gm/sq.m and also apply *Trichoderma harzianum* 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Okra	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seed with *Trichoderma harzianum* 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum* 1.5% WP @ 50 gm/sq.m and also

		apply *Trichoderma harzianum* 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
***Trichoderma viride* 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)**		
Tomato	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma viride* l.5% WP @ 20 gm/kg of seeds & nursery beds with the *Trichoderma viride* l.5 % WP @ 50 gm/sq.m. and also apply *Trichoderma viride* 1.5% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Brinjal	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma viride* l.5% WP @ 20 gm/kg of seeds & nursery beds with the *Trichoderma viride* l.5% WP @ 50 gm/sq.m. and also apply *Trichoderma viride* 1.5% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Carrot	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma viride* l.5 % W P @ 20 gm/kg of seeds and apply *Trichoderma viride* 1.5% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before Planting'.
Okra	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Trichoderma viride* l.5 % W P @ 20 gm/kg of seeds and apply *Trichoderma viride* 1.5% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before Planting'.
***Verticillium chlamydosporium* 1.0% WP, (2x106 CFU/gm min) Strain – IIHR-VC-3 Accession No – ITCC-6898**		
Tomato	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Verticillium chlamydosporium* 1.0% WP @ 20 gm/kg of seeds & nursery beds with the *Verticillium chlamydosporium* 1.0% WP @ 50 gm/sq.m and also apply *Verticillium chlamydosporium* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Brinjal	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Verticillium chlamydosporium* 1.0% WP @ 20 gm/kg of seeds & nursery beds with the *Verticillium chlamydosporium* 1.0% WP @ 50 gm/sq.m and also apply *Verticillium chlamydosporium* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Carrot	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Verticillium chlamydosporium* 1.0% WP @ 20 gm/kg of seeds and apply *Verticillium chlamydosporium* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.
Okra	Root-knot nematodes (*Meloidogyne incognita*)	Treat the seeds with *Verticillium chlamydosporium* 1.0% WP @ 20 gm/kg of seeds and apply *Verticillium*

			chlamydosporium 1.0% WP @ 5 kg/ha enriched FYM * @ 5 tons/ha to the soil before transplanting.		
***Verticillium lecanii* 1.15%WP, (1x10^8 CFU/gm min) Strain – AS MEGH-VL Accession No – MCC-1028**					
Cotton	White flies	-	2500	500	-
Citrus	Mealybug (*Planococcus citri*)	-	2500	550	-
***Verticillium Lecanii* 1.50% Liquid Formulation, (1x10^8 CFU/ml. min.) Strain – T Stanes VI-1, Accession No – MTCC-5172**					
Tomato	White fly (*Bemisia tabaci*)	-	2000 (Foliar spray)	500	-
***Verticillium lecanii* 3.0% AS, (strain: Accession No. MCC-1127, Strain No. MPKV / Biocontrol/ RVN/ VL-01**					
Onion	Thrips (*Thrips tabaci*)	-	2000-2500	500	-
***Verticillium lecanii* 5.0% SC, (Strain: Accession No. NFCCI - 2638**					
Cabbage	Diamond Back Moth (*Plutella xylostella*)	-	500	500	-
***Verticillium lecanii* 5.0% SC, (1x10^8 CFU/gm Min.) Strain – Own Red Isolate, Strain No. VI-17874, MTCC No.5716**					
Rice	White backed plant hopper (*Sogotella furcifera*)	-	3.125 kg.	600	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 0.43% AS (1x109 POB/ml)					
Cotton	*Helicoverpa armigera*	-	2700	400-600	-
Tomato	*Helicoverpa armigera*	-	1500	400-600	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. GBS/HNPV -01 (1x10^9 POB/ml Min.)					
Pigeon pea	Pod borer (*Helicoverpa armigera*)	-	250-500	500-750	-
Gram	Pod borer (*Helicoverpa armigera*)	-	250-500	500-750	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. NBRI-8821 (1x109 POB/ml					

Min.)					
Pigeon pea	Pod borer (*Helicoverpa armigera*)	-	500	500	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. IBH-17268 (1x109 POB/ml Min.)					
Pigeon pea	Pod borer (*Helicoverpa armigera*)	-	250-500 ml	500-750	-
Gram	Pod borer (*Helicoverpa armigera*)	-	250-500 ml	500-750	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. BIL/HV-9 POB(1x109 POB/ml Min.)					
Pigeon pea	Pod borer (*Helicoverpa armigera*)	-	250-500	500-750	-
Chick pea	Pod borer (*Helicoverpa armigera*)	-	250-500	500-750	-
Tomato	Pod borer (*Helicoverpa armigera*)	-	250-500	500	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. IBL-17268					
Pigeon pea	Pod borer (*Helicoverpa armigera*)	-	250-500	500-750	-
Chick pea	Pod borer (*Helicoverpa armigera*)	-	500-1000	500-750	-
Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 0.43% AS, Strain No. BIL/HV-9 (1x109 POB/ml Min.)					
Cotton	*Helicoverpa armigera*	-	2700	400-600	-
Tomato	*Helicoverpa armigera*	-	1500	400-600	-
Nuclear Polyhedrosis Virus of *Spodoptera litura* 0.5% AS, (1x109 POB/ml Min.)					
Tobacco	*Spodoptera litura*	-	1500	400-600	-

NPV of *Helicoverpa armigera* 0.5%AS, (1x109 POB/ml Min.)					
Chickpea	Pod borer (*Helicoverpa armigera*)	-	250	500	-
NPV of Helicoverpa armigera 2.0%AS, (1x109 POBs count / ml min) Biological Insecticide					
Chickpea	Pod borer (*Helicoverpa armigera*)	-	250	600	-
***Paecilomyces lilacinus* 01.15% WP (Accession No. MTCC No. 5175, T-Stanes PI-1 Strain)**					
Brinjal	Root Knot Nematode	03.0 kg	500 kg Organic manure/ Organic fertilizer	-	-

2. PUBLIC HEALTH USE

Name of Insect	Habitat	Dose		Surface	Waiting Period (days)
		a.i. (gm)	Formulation (gm)		
Azadirachtin 0.15% EC					
Mosquito larvae	Stagnant water, Drainage water, Puddle	1.0	1.0	10.7 m^2	-
	Iron containers, Machinery scraps, Iron box, Iron tanks	5.0	5.0	53.6 m^2	-
	Plastic scraps, Pit	933.3	933.3	01 ha	-
***Bacillus thuringiensis* var. israelensis WP**					
Anopheles and Culex (larvae)	-	-	2-5 kg.	-	14-28
***Bacillus thuringiensis* var. israelensis , 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	01 liter in 100 liter of water	-
Anopheles	Paddy fields, Ponds, Pools	-	10.0 litres	01 liter in 50 liter of water	-
Aedes	Tree holes, Disused tyres	-	10.0 litres	01 liter in 50 liter of water	-
Culex	Drains, Cesspits Casuarina pits, Disused wells	-	5.0 litres	01 liter in 100 liter of water	-
***Bacillus thuringiensis* var. israelensis, Serotyp H-14 (Vectobac 12 AS) potency 1200 ITU/mg**					

Anoppheles	Clean water, cement tanks	-	1-2 liters	-	-
Culex	Polluted water, Casspits, Cement tank, Stagnant and flowering drains	-	2-4 liters	-	-
***Bacillus thuringiensis* var. israelensis 5.0% AS (Strain VCRC-B-17, Serotype H-14, Accession No.- MTCC 5596) potency 630 ITU/mg.min.**					
Culex	Polluted water (Drain, Cesspits, Casuarina, Pit, Disused well)	-	05-10 liters	01 liter in 50-100 liters of water	-
Anoppheles	Clean water (Ponds, Pool, Paddy fields)	-	05 liters	01 liter in 100 liters of water	-
Aedes	Tree holes, disused tyres	-	10 liters	01 liter in 100 liters of water	-
Culex	Polluted water (Drain, Cesspits, Casuarina, Pit, Disused well)	-	10 lit (1 ml/m^2)	01 liter in 100 liters of water	-
Anopheles	Clean water (Ponds, Pool, Paddy fields)	-	5 liters(0.5 ml/m^2)	0.5 liter in 100 liters of water	-
Aedes	Tree holes, disused tyres	-	10 liters (1 ml/m^2)	01 liter in 100 liters of water	-
Culex	Drains, Cesspits, casuarinas pits, Disused Wells	-	5 lit/ha	01 liter in 100 liters of water	-
Anopheles	Paddy fields, ponds, pools	-	10 lit/ha	01 liter in 50 liters of water	-
Aedes	Tree holes, disused tyres	-	10 lit/ha	01 liter in 50 liters of water	-
Culex	**Polluted water** (Drains, Cesspits, Casuarina Pits, Disused wells)	10 lit (1 ml/m2		200 Liters of Water	-
Anopheles	**Clean water** (Paddy fields, Ponds, Pool)	5 (0.5 ml/m2)		200 Liters of Water	-
***Bacillus thuringiensis* var. israelensis (H-14) 5.0% AS**					
Culex	Drains, Cesspits,	-	5 lit/ha	01 liter in 100 liters of water	-

	casuarinas pits, Disused Wells				
Anoppheles	Paddy fields, ponds, pools	-	10 lit/ha	01 liter in 50 liters of water	-
Aedes	Tree holes, disused tyres	-	10 lit/ha	01 liter in 50 liters of water	-

***Bacillus thuringiensis* var. israelensis, Serotype H-14, 5% WP Potency 2000 ITU/mg**

Area and Breeding (Habitat)	**Dose (g/m2)**	**Recommended application Frequency**
River bed pool	0.5	Weekly
Cement tanks	0.5	Fortnightly
Pokhars small kaccha or cement tanks with low walls	0.5	Weekly
Pits and ditches	0.5	Weekly
Paddy fields	0.5	Weekly
Semi polluted pits	0.5	Weekly
Ornamental fountains	0.5	Fortnightly
Septic tanks	1.0	Weekly/Fortnightly
Flood prone polluted cesspits and ditches	0.5	Weekly
Drains with polluted stagnant or flowing very slowly	0.5	Weekly/Fortnightly

***Bacillus thuringiensis* var. israelensis, Strain Designation- ABIL, Accession No. NAMICC-B01318 (CFU Count- 4.8 x 10^8) Serotyp H-14, 5% WP Potency 7000 ITU/mg**

Name of Insect	**Habitat**	**Formulation (lit/ha.)**		**Dilution in water (Liters)**	**Waiting period (Days)**
		Gm/m2	**Kg/ha**		
Anopheles species, *Culex* species, *Aedes*	Clean water, (Cement tanks, coolers, Drains, Pools and Pits)	0.75	7.50	200	-
species	Highly Polluted water- (Underground tanks, Container, Drums & Tyros)	1.00	10.00	200	-

***Bacillus thuringiensis* var. sphaericus1593 M serotype H 59 5b**

Anopheles species, *Culex* species	For Drains, Cesspits Cesspools, Paddy fields, ponds	-	112	1 liter in 10 liter of water	-

Anopheles species, *Culex* species	Casuarinas pits, unused wells, unused overhead tanks, Domestic wells (Not for drinking requirements)	-	112	1 liter in 10 liter of water	-
***Bacillus thuringiensis* var. israelensis 12% AS (Vectobac)**					
Anopheles species	Clean water, cement tanks	-	1-2 liter	-	-
Culex species	Polluted water, cess pits, cement tanks, stagnant and flowing drains	-	2-4 liter	-	-
***Bacillus thuringiensis* var. israelensis 00.50%WP**					
Mosquito spp.	Anopheles, Culex and Aedes (Habitat-Cement tank, Coolers, Drains, Pool pits, Highly polluted underground tanks, Container drums & Tyres.)	0.75 mg/m^2	-	200	-
***Bacillus thuringiensis* var. israelensis 05.00%WP**					
Mosquito spp.	Anopheles, Culex and Aedes (Habitat-Cement Tank, Coolers, Drains, Pool pits	0.75 g/m^2	7.50 kg/ha.	200 L	-
	Highly polluted water (underground tanks, Container Drums and Tyres.)	1.00 g/m^2	10.00 kg/ha	200 L	-
***Bacillus sphaericus* 1593 M serotype H 59 5b, 1.3% Flowable concentrate Potency 13000 IU/mg**					
Anopheles species, *Culex* species	For Drains, Cesspits Cesspools, paddy fields, ponds	-	112 ml	1 liter/10 liter of water	-
Anopheles species, *Culex* species	Casuarinas pits, unused wells, unused overhead	-	112 ml	1 liter/10 liter of water	-
	tanks, Domestic wells (Not for drinking requirements)				

MAJORUSES OF BIO-PESTICIDES

(Registered under the Insecticides Act,1968)

(Based on certificate issued)

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

BIO-PESTICIDES

1. Major uses of Bio-fungicides

1. Major uses of Bio-Fungicides					
Name of Crop	**Common name of the Disease**	**Dose/ha**		**Dilution in water (liter/ha)**	**Waiting period (Days)**
		a.i. (g)	**Formulation (g/ml)/%**		
***Ampelomycesquisqualis* 2.0% WP**					
Okra (Bhindi)	Powdery mildew (*Erysiphecichoracearum*)	-	2.5 kg	500	-
Neem oil based EC containing, Azadirachtin 0.030% (300 ppm)					
Bhindi	Powdery mildew	-	2-2.50	500	03
***Pseudomonasfluorescens*1.75% WP (T Stanes Pf-1 Strain Accession No. MTCC 5671)**					
Wheat	Loose smut	-	05 g/kg seed (Seed treatment)	Mix the required quantity of seeds with the required quantity of *Pseudomonas fluorescens* 1.75% WP formulation and ensure uniform coating. Shade dry and sow the seeds.	**Dilution in water (lit/ha)** As per requirement for uniform coating of seeds 500 lit per ha
		-	2.5 kg per ha (05 g/litre water) (Foliar spray)	Spray *Pseudomonas fluorescens* 1.75% WP uniformly on the crop.	500 lit per ha

Tomato	Early blight		05 g/kg seed (Seed treatment)	Mix required quantity of the seeds with the required quantity of *Pseudomonasfluorescens* 1.75% WP. Ensure uniform coating, shade dry and sow the seeds.	**Dilution in water (lit/ha)** As per requirement for uniform coating of seeds
			3 kg per ha (06 g/litre water) (Foliar spray)	Spray *Pseudomonas fluorescens* 1.75% WP uniformly on the crop.	500 lit per ha
***Bacillus subtilis* 1.50% L.F (T Stanes Bs-1 Strain MTCC 25072)**					
Banana	Sigatoka (*Mycosphaerellamusicola*)	-	5 Liter/ha (Foliar spray)	750 Liter/ha	-
***Pseudomonas fluorescens* 2.0% AS (Strain No. IPL/PS-01, Accession No. MTCC 5727)**					
Paddy	Bacterial leaf blight(*Xanthomonasoryzae*pv. oryzae)	-	10 ml/litreof water	**Seedling Root Dip Treatment:**Mix 10 ml of *Pseudomonas fluorescens* 2.0% AS in one litre of water and dip the paddy seedling root for 30 minutes before transplanting followed by foliar application after 40-45 days of transplantation.	Nil

		-	1.87-2.50 litre/ha	**Foliar Spray:**Suspend 1.87 to 2.50 litre of *Pseudomonas fluorescens*2.0% AS in 500 litre of water and spray uniformly after 40-45 days of transplantation over one hectare land 2-3 spray are required depending upon the disease incidence at interval of 10-12 days using a hand operated Knapsack sprayer or power sprayer fitted with a hollow cone nozzle.	Nil
***Bacillus subtilis* 2.0% AS (Strain No. IPL/BS-09, Accession No. MTCC 5728)**					
Paddy	Bacterial leaf blight (*Xanthomonasoryzae*pv. oryzae)	-	10 ml/litre of water	**Seedling Root Dip Treatment:** mix 10ml of *Bacillus subtilis* 2.0% AS in one litre of water and dip the paddy seedling root for 30 minutes before transplanting followed by foliar application.	Nil
		-	1.87-2.50 litre/ha	**Foliar Spray:** Suspend 1.87 to 2.50 litre of *Bacillus subtilis* 2.0% AS in 500 litre of	Nil

				water and spray uniformly after 40-45 days of transplantation over one hectare land 2-3 spray are required depending upon the disease incidence at interval of 10-12 days using a hand operated Knapsack sprayer or power sprayer fitted with a hollow cone nozzle.	
***Bacillus subtilis*1.50% AS (MTCC Accession no. 5786)**					
Grapes	Powdery mildew (*Erysiphenecator*)	-	2 ml/litre water	*Bacillus subtilis* 1.50% ASis applied as foliar spray and soil spray @ 2 ml/litre of water. The product has to be used with activator provided. Shake the bottle well. Mix the contents of *Bacillus subtilis* 1.50% AS activator bottles with *Bacillus subtilis* 1.50% AS in a clean vessel. For 1 Ltr packing add 10 g activator (2 bottles of 5 g each). Mix thoroughly and spray. The product can be applied at 15 days interval. Thorough coverage is essential for optimum result.	-
***Pseudomonas fluorescens* 0.5% WP (TNAU Strain Accession No. ITCC BE 0005)**					
Groundnut	Late leaf spot	-	10 g/kg seed	**Seed Treatment:**Mix the required quantity of seeds with the required quantity of *Pseudomonas*	-

				fluorescens 0.5% WP formulation and ensure uniform coating. Shade dry and sow the seeds.	
		-	1 kg/ha	**Soil Treatment:** 01 kg of *Pseudomonas fluorescens* 0.5% WPspread uniformly over 1 hectare of land (foliar spray @ 2%).	-
Rice	Leaf and neck blast (*Pyriculariaoryzae*)	-	10 gm/kgseed	**Seed Treatment:**Mix required quantity of the seeds with the required quantity of *Pseudomonas fluorescens* 0.5% WP.	Nil
		-	1 kg/ha	**Soil Treatment:**Broadcast 1 kg *Pseudomonas fluorescens* 0.5% WP by mixing with 2.5 kg organic manure in one ha area.	-
		-	1 kg/ha	**Foliar spray:** Spray 0.5% WP @ 1 kg/ha	-
Chilli seedlings	Damping off (*Pythium aphanidermatum*)	-	10 g/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Pseudomonas fluorescens* 0.5% WP and ensure uniform coating, shade dry and sow	Nil
Tomato	Wilt (*Fusariumoxysporum*F.sp.)	-	10 gm/kg of seeds	**Seed Treatment:**Mix required quantity of the seeds with the required quantity of *Pseudomonas fluorescens*0.5% WP	Nil

				and ensure uniform coating, shade dry and sow	
			2.5 kg/ha	**Soil Treatment:** 2.5 kg of *Pseudomonas fluorescens* 0.5% WP Spread uniformly over a hectare of land	Nil
Cotton	Bacterial Leaf blight	-	10 g/kg seed	Seed treatment- Mix required quantity of the seeds with the required quantity of *Pseudomonas fluorescens* WP and ensure uniform coating with 0.2% Foliar spray, shade dry and sow	Nil
***Pseudomonas fluorescens* 1.5% WP (BIL-331 Accession No. MTCC5866)**					
Paddy	Bacterial Leaf blight (*Xanthomonasoryzae*),Blast (*Pyriculariaoryzae*),Leaf spot (*Helminthosporiumoryzae*)	-	5 gm/kg of seed	**Seed Treatment:** Make a thin paste of required quantity of *Pseudomonas fluorescence* 1.5% WP with min. volume of water and coat the seed uniformly, shades dry the seeds just before showing.	Nil
		-	2.5 kg /ha	**Soil Treatment:** Mix 2.5 kg of *Pseudomonas fluorescens* 1.5% WP with 50 kg FYM or and broadcast uniformly over hectare of land 30days after planting.	Nil
***Pseudomonas fluorescens* 1.0% WP (IPL/PS-01 Accession No. MTCC5727)**					
Tomato	Wilt (*Fusariumoxysporum*), Damping Off (*Pythium*	-	5 gm/kg of seed	**Seed Treatment:** Make a thin paste of	Nil

	aphanidermatum), Root rot (*Rhizoctonia* spp.)			required quantity of *Pseudomonas fluorescens* 1.0% WP with the minimum volume of water & coat the seed uniformly, shade dry the seed just before sowing.	
		-	2.5 kg/ha	**Soil Treatment:** Mix 2.5kg of *Pseudomonas fluorescens* 1.0% WP with 62.5 kg FYN and broadcast uniformly over a hectare of land.	Nil
		-	10gm/litres of water	**Seedling Root Dip Treatment:**Mix 10 gm of *Pseudomonas fluorescens* 1.0% WP in one litre of water and dip the tomato seedling root rot for minutes.	Nil
***Pseudomonas fluorescens* 1.0% WP (Strain No. IIHR-PF-2 Accession No. ITCCB0034)**					
Tomato	Wilt (*Fusariumoxysporum*)	Treat the seed with *Pseudomonas fluorescens*1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens*1.0% WP @ 50gm/sq.m and apply Pseudomonas fluorescens1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Brinjal	Wilt (*Fusariumsolani*)	Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Pseudomonas fluorescens* 1.0% WP @ 50 gm/sq.m and apply Pseudomonas fluorescens 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Carrot	Root rot (*Atheliarolfsii*)	Treat the seed with *Pseudomonas fluorescens*1.0% WP @ 20gm/kg of seeds and apply *Pseudomonas fluorescens*1.0% WP @ 5 kg/ha enriched FYM* @ 5tons/ha to the soil before sowing.			

Okra	Wilt (*Fusariumoxysporum*)		Treat the seed with *Pseudomonas fluorescens* 1.0% WP @ 20 gm/kg of seeds and apply *Pseudomonas fluorescens* 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.			
***Pseudomonas fluorescens*1.5% LF (MTCC no. 5671, Strain designation Pf-1)**						
Paddy	Leaf/neck blast	4.5 ml per kg seed	**Seed Treatment:**Mix the required quantity of seeds with the required of *Pseudomonas fluorescens* 1.5% Liquid formulation ensure uniform coating, shade dry and sow.			
		6.0 litre per ha	**Foliar spray:**Spray *Pseudomonas fluorescens* 1.5% Liquid formulation uniformly on the crop.			
***Trichoderma harzianum* 0.50% WS**						
Cardamom	Capsule rot (*Phytophthorameadii*)	-	100 gm/plant	**Soil Treatment:**Apply 100 gm product/ plant along with Neem cake (0.5 kg/plant) and 5 kg FYM/plant	-	
***Trichoderma harzianum* 1.0% WP(Strain No. IIHR-TH-2 Accessions No. ITCC6888)**						
Tomato	Wilt (FusariumOxysporum)		Treat the seed with *Trichoderma harzianum* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum* 1.0% WP @ 50 gm/sq.m and apply *Trichoderma harzianum* 1.0% WP @ 5 kg/ha enriched FYM*@5tons/ha to the soil before transplanting.			
Brinjal	Wilt (*Fusariumsolani*)		Treat the seed with *Trichoderma harzianum* 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma harzianum*1.0% WP @ 50gm/sq.m and apply *Trichoderma harzianum* 1.0% WP @ 5kg/ha enriched FYM*@5tons/ha to the soil before transplanting.			
Carrot	Root rot (*Sclerotiumrolfsii)*		Treat the seed with *Trichoderma harzianum* 1.0% WP @ 20gm/kg of seeds and apply *Trichodermaharzianum* 1.0% WP @ 5kg/ha enriched FYM*@ 5tons/ha to the soil before sowing.			

Okra	Wilt (*Fusariumoxysporum*)	Treat the seed with *Trichoderma harzianum* 1.0% WP @ 20gm/kg of seeds and apply *Trichoderma harzianum*1.0% WP @ 5kg/ha enriched FYM*@ 5tons/ha to the soil before sowing.			
***Trichodermaharzianum* 1.0% WP (Strain no. Th3 Accession no. 5593)**					
Chickpea	Root rot (*Rhizoctoniasolani*)	6 gm/kg of seeds (seed treatment) and soil drenching with *Trichoderma harzianum* after 50 days of sowing.			
***Trichodermaharzianum* 2.0% WP (NBRI-1055)**					
Maize	Root rot (*Fusariummoniliforme*), Fusarium wilt	-	20 gm/kg seed	**Seed Treatment:** Make a thin paste of required quantity of *Trichoderma harzianum* 2.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing.	-
***Trichodermareesei* 3.0% WP (CSR-T-3 Strain Accession No. NAIMCC-SF-0030)**					
Banana	Panama wilt	**Dosage per hectare**			**Waiting period from last spray to harvest (in days)**
		a.i.(g)	**Formulation (ml)**	**Dilution in Water**	
		18 kg/ha.	250 ml/plant	600 Liters	7 days
***Trichodermaviride* 1.0% WP**					
Pigeon pea	Wilt, Root rot	-	8 gm /kg seed	Seed Treatment	Nil
		-	5.0 kg/ha	Soil Treatment	Nil

Pulses (Cowpea, Mung bean, Urdbean)	Root rot	-	4 g/kg of seed	Seed Treatment	Nil
Chilli	Damping off	-	4 g/kg of seed	Seed Treatment	Nil
***Trichodermaviride* 0.5% WP**					
Tomato	Wilt (*Fusariumoxysporum*)	-	10 g/kg seed	**Seed Treatment-** Mix the required quantity of seeds with the required quantity of *Trichoderma viride* 0.50% WP and ensure uniform coating, Shade dry and sow.	-
***Trichodermaviride* 1.50% WP (T Stanes Tv-1 Strain Accession No. MTCC 5170)**					
Groundnut	Seedling wilt	-	4 gram/kg seeds	**Seed Treatment:** Mix required quantity of seeds with the required quantity of *Trichoderma viride*1.50% WP and ensure uniform coating, shade dry and sow. **Soil Application:** Mix 2.5 kg *Trichoderma viride*1.50% with 100 kg of properly decomposed farmyard manure and spread uniformly over a hectare of land.	-
Wheat	Loose smut	-	4 gram/kg seeds	**Seed Treatment:** Mix required quantity of seeds with the required quantity of *Trichoderma*	-

				*viride*1.50% WP and ensure uniform coating, shade dry and sow.	
Chilli	Root wilt		5.0 gm/ kg seed 5.0 gm/lit water 3.0 kg/ha	**Seed Treatment:**Mix required quantity of seeds with the required quantity of *Trichoderma viride*1.50% WP and ensure uniform coating, shade dry and sow. **Seedling dip treatment:** Dip roots of the seedlings for 20 minutes at the time of transplanting. **Soil Application:**Mix 3.0 kg *Trichoderma viride*1.50% with 100 kg of properly decomposed farmyard manure and spread uniformly over a hectare of land at the time of crop transplanting and at the time of flowering.	
Trichoderma viride 1.0% WP (TNAU Strain Accession No. ITCC 6914)					
Cowpea	Root Rot	-	5 gm/kg seed	**Seed Treatment:** Make a fresh slurry of required quantity of *Trichoderma viride* 1.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing.	Nil

		-	2.5 kg/ha	**Soil Treatment:** Mix 2.5 kg of *Trichoderma viride* 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	Nil
Chili seedlings	Damping off (*Pythium aphanidermatum*)	-	4 g/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Trichoderma viride* 1.0% WP and ensure uniform coating shade dry and sow	Nil
Urd bean	Root rot (*Macrophominaphaseolina*)	-	4 g/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Trichoderma viride* 1.0% WP and ensure uniform coating shade dry and sow	Nil
Pigeon pea	Root rot (*Macrophominaphaseolina*)	-	4 g/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Trichoderma viride* 1.0% WP and ensure uniform coating shade dry and sow	Nil
***Trichoderma viride* 1.0% WP (Strain T-14 in house isolate of M/s Indore Biotech Inputs & Research (P) Ltd., Indore)**					
Chickpea	Wilt (*Fusariumoxysporum*)	-	5 gm/kg seed	**Seed Treatment:** Make slurry of required quantity of Trichoderma viride 1.0% WP with minimum volume of water & coat the seeds	-

				uniformly, shade dry the seeds just before sowing	
	Root Rot (*Rhizoctoniasolani&Sclerotiumrolfsii*)	-	5.0 kg/ha	**Soil Treatment:** Mix 5.0 kg of *Trichoderma viride* 1.0% WP in 100 kg FYM and broadcast over a hectare land mix well with soil and irrigate the field immediately.	-
Paddy	Sheath blight (*Rhizoctoniasolani*)	-	5-10 gm/litre of water	**Foliar spray:** Mix 2.5 kg of Trichoderma viride 1.0% WP in 500 litres of water. Spray three times at 15 days interval uniformly over one hectare land 30 days after planting	-
***Trichoderma viride* 1.5% LF (Strain No. TV-1, Accession No. MTCC 5170)**					
Tomato	Root wilt (*Fusariumoxysporum*f.sp. *lycopersici*)	-	5 ml/kg seed + 5 ml/lit water + 3000 ml/ha	Seed treatment + Seedling dip treatment + Soil treatment	**Dilution in water-** 500 liter/ha
***Trichoderma viride* 1.5% WP (Strain No. IIHR-TV-5, Accession No. ITCC 6889)**					
Tomato	Wilt (*Fusariumoxysporum*)	Treat the seed with T*richoderma viride*1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma viride* 1.5% WP @ 50 gm/sq.m and apply Trichoderma viride 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			

Brinjal	Wilt (*Fusariumsolani*)	Treat the seed with *Trichoderma viride* 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the *Trichoderma viride* 1.5% WP @ 50 gm/sq.m and apply *Trichoderma viride* 1.5% WP @ 5 kg/ha enriched FYM*@5tons/ha to the soil before transplanting.			
Carrot	Root rot (*Sclerotiumrolfsii*)	Treat the seed with *Trichoderma viride* 1.5% WP @ 20 gm/kg of seeds and apply *Trichoderma viride* 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.			
Okra	Wilt (*Fusariumoxysporum*)	Treat the seed with *Trichodermaviride* 1.5% WP @ 20 gm/kg of seeds and apply *Trichoderma viride* 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.			
Trichoderma viride 1.0% WP(IPL/VT/101)					
Cauliflower	Stalk rot (*Sclerotiniasclerotiorum*)	-	4 gm/kg seed	**Seed Treatment:** Make a thin paste of required quantity of *Trichoderma viride* 1.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing	-
		-	2.50 kg/ha	**Soil Treatment:** Mix 2.5 kg of *Trichoderma viride* 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	-
Brinjal	Root Rot/ Wilt/ Damping off (*Rhizoctoniabataticola, Sclerotiumrolfsii, Fusariumoxysporum, Rhizoctoniasolani*)	-	5 gm/kg seeds	**Seed Treatment:** Make a thin paste of required quantity of *Trichoderma viride* 1.0% WP with minimum volume of water and coat the seeds uniformly, shade	

				dry the seeds just before sowing	
		-	250 gm/50 litre of water/400 sq. m	**Nursery Treatment:** Mix 250 gm of *Trichodermaviride* 1.0% WP in 50 litres of water and drench the soil in 400 sq.m area	-
		-	10 gm/litre of water	**Seedling Root dip Treatment:** Mix 10 gm of Trichoderma *viride 1.0% WP in one*litre of water and dip the Brinjal seedling root for 15 minutes	-
		-	2.5 kg/ha	**Soil Treatment:** Mix 2.5 kg of *Trichoderma viride* 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	
Cabbage	Root rot/Collar rot (*Rhizoctoniasolani*)	-	10 gm/litre water	**Seedling Root dip Treatment:** Mix 10 gm of *Trichoderma viride* 1.0% WP in one litre of water and dip the Cabbage seedling root for 30 minutes	-
		-	2.5 kg/ha	**Soil Treatment:** Mix 2.5 kg of *Trichoderma viride* 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	-
***Trichoderma viride* 1.0% WP**					

Tomato	Seedling wilt (*Fusariumoxysporum*), Damping off (*Pythium aphanidermatum, Rhizoctoniasolani*)	-	9 g/kg seed	**Seed Treatment:** Mix 9 kg of the product per kg seed.	-
		-	2.5 kg/ha	**Root zone application:** Mix thoroughly 2.5 kg of the product in 150 kg of compost or farmyard manure and apply this mixture in the field after sowing/ transplanting of crops	-
Bengal gram	Seedling wilt (*Fusariumoxysporum*), Damping off (*Pythium aphanidermatum, Rhizoctoniasolani*)	-	9 g/kg seed	**Seed Treatment:** Mix 9 kg of the product per kg seed.	-
		-	2.5 kg/ha	**Root zone application:** Mix thoroughly 2.5 kg of the product in 150 kg of compost or farmyard manure and apply this mixture in the field after sowing/ transplanting crops	-
***Trichoderma viride* 1.0% WP**					
Sunflower	Seed rot (*Sclerotiumrolfsii*), Root rot (*Sclerotiumrolfsii*)	-	6 g/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of product in rice gruel, ensure uniform coating, shade dry and sow	-
		-	1.25-2.5 kg/ha	**Soil Treatment:** Mix with 30-60 kg of compost/ farmyard manure and spread uniformly over 1 hectare of land.	-

***Trichoderma viride* 1.0% WP (TNAU Strain Accession No. ITCC 6914)**					
Pigeon pea	Root rot (*Macrophominaphaseolina*)	-	4 gm/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Trichoderma viride* 1.0% WP and ensure uniform coating, shade dry and sow	-
Urd bean	Root rot (*Macrophominaphaseolina*)	-	4 gm/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of Trichoderma viride 1.0% WP and ensure uniform coating, shade dry for 24 hours and sow	-
***Trichoderma viride* 5.0% SC (Strain Accession No. ITCC 7111)**					
Chilli (Nursery)	Damping off (*Pythium aphanidermatum*)	-	2 ml/kg seed	**Seed Treatment:** Mix required quantity of the seeds with the required quantity of *Trichoderma viride* 5.0% SC. Ensure uniform coating, shade dry and sow	Nil
***Trichoderma harzianum* 2.0% AS (Strain No. IPL/VT/102, Accession No. ITCC 6893)**					
Paddy	Bakane (Foot rot) *(Fusariummoniliforme*)	-	30 ml/litre of water	**Seedling Root Dip Treatment:** Mix 30 ml of *Trichoderma harzianum* 2.0% AS in one litre of water and dip the paddy seedling root for 30 minutes before transplanting followed by Soil treatment.	Nil

		-	2.5 litre/ha	**Soil Treatment:** Mix 2.5 litre of *Trichoderma harzianum* 2.0% AS with 100 kg of properly decomposed FYM and broadcast uniformly over a hectare of land prior to transplanting.	Nil
***Trichoderma viride* 5.0% Liquid Formulation (Accession no. NAIMCC-F-03034)**					
Rice	Brown spot (*Cochliobolusmiyabeanus*)	-	500 liter/ha	Foliar spray	-
Pea	Powdery mildew (*Microspheraalni*)	-	500 liter/ha	Foliar spray	-

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MAJOR USES OF PESTICIDES

(Registered under the Insecticides Act,1968)

(Based on certificate issued)

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

FUNGICIDES

1. Fungicides single product formulations use
2. Fungicides combination uses

1. Fungicides single product formulations use					
Crop	**Common name of the disease**	**Dosage perha**			**Waitingperiod fromlast applicationtoharvest(in days)**
		a. i. (g)	**Formulation (g/ml)/%**	**Dilutionin water(L)**	
Amisulbrom 20% SC					
Potato	Late blight (*Phytophthorainfestans*)	100	500	375-500	19
Grape	Downy mildew (*Plasmoparavitic ola*)	75	375	400-1000	59
Azoxystrobin 23% SC					
Grapes	Downy mildew, Powdery mildew	125gm	500 ml	500-750	7
Chilli	Fruitrot, Powdery mildew	125gm	500 ml	500-750	5
Mango	Anthracnose, Powdery mildew	0.025%	0.1%	100ml/ 100 Ltr. (depending upon size of tree)	5
Tomato	Early&Lateblight	125gm	500ml	500	3
Potato	Late Blight	0.025%(125) gm	500 ml	500	12
Cucumber	Downy mildew, Powdery mildew	125 gm	500	500	5
Cumin	Blight & Powdery mildew	115 gm	500	500	28
Pomegranate	Leaf & Fruit spot	0.023%	0.1%	500 L/ha (or depending on size of tree)	5
Aureofungin 46.15% w/v SP					
Paddy(Rice)	Blast, Brown leaf	-	0.005%	500	30

	spot				
Grapes	Downy mildew Anthracnose	- -	0.005% 0.05%	750 750	15
Citrus	Gummosis	-	1.0%	750 (Soil drench)	30
Apple	Powdery mildew White root rot	- -	0.005% 0.2%	10 lit./tree 5-10 injection 2 gm/tree	30
Potato	Early blight	-	0.005%	750	30
Bitertanol25%WP					
Groundnut	Rust	250gm	1000gm	500	30
	Tikka	250gm	1000gm	500	30
Wheat	Karnalbunt	560gm	2240gm	750	-
Bupirimate 26.7% w/w EC					
Rose	Powdery mildew	1000	4000	1000	5
Captan 50% WG					
Chillies	Fruitrot (Anthracnose)	750gm	1500gm	500	5
Potato	Early blight&Lateblight	750gm	1500gm	500	21
Captan 50% WP					
Apple	Scab	1250gm	2.5kg	750-1000	-
Cherry	Brownrot	1250gm	2.5kg	750-1000	-
Grapes	Downey mildew	1250gm	2.5kg	750-1000	-
Potato	Early blight	1250gm	2.5kg	750-1000	-
	Lateblight	1250gm	2.5kg	750-1000	-
Tomato	Early blight	1250gm	2.5kg	750-1000	-
	Lateblight	1250gm	2.5kg	750-1000	-

Captan 75% WP					
Apple*	Scab,Fly speck&Bitterrot	0.12%**	1667gm	15-20**	8
Cherry	Brownrot	0.12%**	1667gm	15-20**	NA
Grape	Downy mildew	1250gm	1667gm	1000	8
Cabbage/ Cauliflower, Tomato, Brinjal, Chillies, Beans, Ornamental	Damping off (Nursery)	0.25%	2500gm	1000 Soildrench inthe nursery	NA
Potato	Early blight	1250gm	1667gm	1000	8
	Lateblight	1250gm	1667gm	1000	8
Tomato	Early blight	1250gm	1667gm	1000	6
	Lateblight	1250gm	1667gm	1000	6
Chillies	Early blight	1250gm	1667gm	1000	8
	Fruitrot	1500gm	2000gm	1000	8
Citrus	Brownrot	0.25**	2500gm	15-20**	NA
	Scab	0.12**	1667gm	15-20**	NA
Rose	Blackspot	1250gm	1667gm	1000	NA
Paddy(Rice)	Leafspot	750gm	1000gm	750	NA
Captan 75%WS					
Chillies (soildrench)	Damping off (soil drench)	15-25 gmper kgseed	20-30gm perkgseed	1	
Cabbage	Damping off (soil drench)	15-25gmper kgseed	20-30gm perkgseed	1	
Tomato	Damping off (soil drench)	15-25 gmper kgseed	20-30gm perkgseed	1	
Carbendazim 5% GR					
Paddy (Rice)	Brownleaf spot	0.62kg	12.5 kg	-	
Carbendazim 46.27% SC					
Grape	Powderymildew	0.046% or 46 g /100 lit. water	0.1%or100 ml/100lit.Wat er	Asrequired	30

Mango	Powderymildew	0.046% or 46 g/100 lit. water	0.1%or100 ml/100lit. Water	Asrequired	15
Carbendazim 50%WP					
Paddy (Rice)	Blast	125-250 gm	250-500gm	750	(wet slurry treatment)
	Sheath blight	1gm/ kg seed	2 gm/ kg seed	1Lit./10 kg seed	(wet slurry treatment)
	Aerial phase	125-250 gm	250-500gm	750	(wet slurry treatment)
Wheat	Loosesmut	1gm/kg seed	2gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Barley	Loosesmut	1 gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Tapioca	Setrot	0.5gm	1	1	-
Cotton	Leafspot	125	250	750	-
Jute	Seedlingblight	1gm/kg seed	2gm/kgseed	1Lit./10 kg seed	(wet slurry treatment)
Groundnut	Tikkaleafspot	112.5 gm	225gm	750	-
Sugar beet	Leafspot	100gm	200gm	400	-
	Powderymildew	100gm	200gm	400	-
Peas	Powderymildew	125gm	250gm	600	-
ClusterBeans	Powderymildew	175gm	350gm	750	-
Cucurbits	Powdery mildew	150gm	300gm	600	-
	Anthracnose	150gm	300gm	600	-
Brinjal	Leafspot	150gm	300gm	600	-
	Fruitrot	150gm	300gm	600	-
Apples	Scab	1.25gm	2.5gm	10Lit./tree	-
Grapes	Anthracnose	150gm	300gm	600	-
Walnut	Downyleafspot	1.5gm	3gm	10 Lit./tree	-
Rose	Powdery mildew	0.5gm	1gm	2	-
Ber	Powdery mildew	5gm	10gm	10 Lit./tree	-

Chillies	Damping Off	1 gm/kg seed	2 gm/kg seed	1 Lit./tree	(wet slurry treatment)
Moong	Powdery mildew	250	500	750	-
	Leaf spot & Web blight	125-250	250-500	750	-
Cow Pea	Leaf Spot	150	300	600	-
	Collar rot	150	300	600	-
	Anthracnose	150	300	600	-
	Powdery Mildew	150	300	600	-
Tobaco	Frog eye spot	112.5	225	750	-
	Anthracnose	112.5	225	750	-
Carboxin75%WP					
Wheat	Flagsmut	1.5 -1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Onlyonetime seedtreatment required
	Loosesmut	1.5 - 1.875 gm/ kg seed	2-2.5gm/kgseed	N/A	Only one time seed treatmentrequired
	Bunt	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatmentrequired
Barley	Loosesmut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatment
	Coveredsmut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	required
Cotton	AngularLeaf spot	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kgseed	N/A	Only one time seed treatment
Carpropamid27.8%SC					
Rice (Paddy)	Blast	0.03%	0.1%	300-500 depending uponcrop stage	-
Chlorothalonil 75% WP					
Groundnut	Tikkaleaf spot	0.66 - 0.863	0.88-1.150	600-800	14
	Rust	0.66 - 0.863	0.88-1.150	600-800	14

Potato	Early&Lateblight	0.66 - 0.937	0.875-1.250	600-800	14
Apple	Scab	0.150% (150gm/10Ltr. water)	0.200% (200gm/100 water)	10 Ltr. water per tree	45
Grapes	Anthracnose and Downy mildew	0.15%(150 gm/100 Ltr. water)	0.2%(200gm/ 100L water)	100	60
Chilli	Fruit rot	600	800	750	10
Cauliflower	Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3
Watermelon	Downy mildew and Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3
Copper Oxychloride 50% WG					
Grape	Downymildew	0.12%or 120g/100Ltr. water	0.24%or 240g/100Ltr. water	Asrequired depending uponPP equipmentused	30
Mango	Anthracnose	0.12%or120 g/100Ltr. water	0.24%or 240g/100Ltr. water	Asrequired depending uponPP equipmentused	10
Copper oxychloride 50% WP					
Citrus	Leaf spot	1.25	2.5	750-1000	-
	Canker	1.25	2.5	750-1000	-
Chillies	Leaf spot	1.25	2.5	750-1000	-
	Fruit rot	1.25	2.5	750-1000	-
Betel	Foot rot	1.25	2.5	750-1000	-
	Leaf spot	1.25	2.5	750-1000	-
Banana	Fruit rot	1.25	2.5	750-1000	-
	Leaf spot	1.25	2.5	750-1000	-
Coffee	Black rot	1.87-3.75	3.75-5.5	750-1000	-
	Rust	1.87-3.75	3.75-5.5	750-1000	-
Potato	Early blight	1.25	2.5	750-1000	-
	Late blight	1.25	2.5	750-1000	-
Tobacco	Downy mildew	1.25	2.5	750-1000	-
	Black Sank	1.25	2.5	750-1000	-

	Frog eye leaf	1.25	2.5	750-1000	-
Tomato	Early blight	1.25	2.5	750-1000	-
	Late blight	1.25	2.5	750-1000	-
	Leaf spot	1.25	2.5	750-1000	-
Grapes	Downy mildew	1.25	2.5	750-1000	-
Coconut	Bud rot	1.25	2.5	750-1000	-
Cardamom	Clump rot	1.87-3.75	3.75-5.5	750-1000	-
	Leaf spot	1.25	2.5	750-1000	-
Copper Hydroxide 53.8% DF					
Potato	Late blight	525	1500	500	22
Grape	Downy mildew	525	1500	1000	12
Chilli	Anthracnose	350	1000	500	5
Rice (Paddy)	False smut, Bacterial leaf blight	525	1500	500	10
Copper Hydroxide 77% WP					
Rice (Paddy)	Falsesmut	1000gm	2000gm	750	-
Copper Sulphate 2.62% SC					
Tomato	Early blight and Late blight	-	1 litre	500	3 days
Potato	Early blight and Late blight	-	1 litre	500	3 days
Chilli	Fruit rot (anthracnose)	-	1 litre	500	3 days
Grape	Downy mildew	-	1 litre	500	3 days
Copper Sulphate Pentahydrate 6% SC					
Rice	Bacterial leaf blight	60 gm	1000 ml	500	21
Pomegranate	Bacterial blight	0.15 gm per lit	2.5 ml per lit of water	750-1000	33
Grape	Downy mildew	0.15 gm per lit	2.5 ml per lit of water	500-1000	45
Cyflufenamid 5% EW					
Chilli	Powdery mildew	15	300	375-500	5

	(*Leveilullataurica*)				
Grapes	Powdery mildew (*Uncinulanecator*)	25	500	400-1000	25
Cymoxanil50%WP					
Grapes	Downeymildew	0.12%	0.24%or 240gm/100 ltr.water	Asrequired depending upon the crop stage and equipment used	15
Cyazofamid 34.5% SC					
Potato	Late blight	80g	200ml	500	27
Tomato	Late blight	80g	200ml	500	3-5
Grapes	Downy mildew	80g	200ml	500	7
Difenoconazole 3% WS					
Wheat	Loose smut	6.0	200	This is used as seed dresser	This is used as seed dresser
Difenoconazole25% EC					
Apple	Scab	0.004% or4 g/100ltr. water	0.015%or 15ml/100 ltr. water	Asrequired depending upon the size of the plant and plant protection equipment used	14
Paddy (Rice)	Sheathblight	0.0125% or12.5g/100ltr. water	0.05%or50 ml/100ltr. water	500	25
Chilli	Die-back, Fruit rot	0.0125%or 12.5g/100 ltr. water	0.05%or50 ml/100ltr. water	500-1000 (as per the size of plant)	15
Cumin	Blight, Powdery mildew	0.0125%or 12.5 g/100 ltr.. water	0.05%or 50 ml/100 ltr..water.	500	15
Onion	Purple blotch	0.025%or 25 g/100 ltr. water	0.1%or 100 ml/100 ltr..water.	500	20
Pomegranate	Fruit rot	0.025% or 25g/100ltr. water	0.1%or 100 ml/100 ltr. water.	500	7

Grape	Anthracnose, Powdery mildew	0.0075% or 7.5 g/l00ltr. water	0.03% or 30ml/100 ltr. of water	500	10
Groundnut	Leaf spot, rust	0.025% or 25g/100ltr. water	0.1%or 100 ml/100 ltr..water.	As required depending upon the size of the plant and plant protection equipment used	34
Dimethomorph50%WP					
Grapes	Downymildew	500gm	1000gm	750L	25
Potato	Lateblight	500gm	1000gm	750L	16
Dinocap 48% EC					
Mango	Powdery mildew	2.4gm	5gm	10	-
Rose	Powdery mildew	0.96gm	2ml	10lit. water	-
Dithianon 75%WP					
Apple	Scab	1350gm	1800gms	2400L	14-21
Dodine 40% SC					
Apple	Alternaria leaf blight/Blotch	0.05	0.075	10 ltr. / tree	21
	Premature leaf fall	0.05	0.075	10 ltr./ tree	21
Dodine65%WP					
Apple	Scab	0.05%	0.075%	10	21
Ediphenphos 50%EC					
Paddy (Rice)	Blast	250-300	500-600	750-1000	21
	Brownleaf spot	250-300	500-600	750-1000	21
Ethaboxam 40% SC					
Potato	Late blight	200-225	500-663 ml	500	11
Flusilazole 40% EC					
Rice (Paddy)	Sheath blight	120g a.i./ha	300ml/ha	500	24
Chilli	Powdery mildew	40-60 g a.i/ha	100-150 ml/ha	500	5

Fluxapyroxad 333 g/l FS					
Sorghum	Anthracnose	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A(Seed Dresser)
Soybean	Rhizoctonia root rot, Cotyledonary spot	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Cotton	Seedling Disease	0.49	1.5 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Fosetyl-AL 80% WP					
Grapes	Downey mildew	1120-1600gm	1400- 2000 gm	750-1000	30
Cardamom	Azukhal Diseaseand Damping off	1800-2400gm	2250-3000 gm	750-1000	90
Hexaconazole0.5%GR					
Rice	Sheath blight & Sheath rot	50 gm	10 kg	Not applicable	38
Hexaconazole2%SC					
Chillies	Powderymildew &Fruitrot	60gm	3.0L	500	7
Potato	Early blight& Lateblight	60gm	3.0L	500	21
Grapes	Powdery mildew	30-60gm	1.5-3.0L	500-750 depending uponcrop canopy	14
Hexaconazole 5% EC					
Apple	Scab	0.0025%	0.05% (50ml/100lt)	Asrequired	30
Rice (Paddy)	Blast, Sheath blight	50gm	1000 m1	500	40
Groundnut	Tikkaleaf spot	75gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5g/100 lit)	0.1% (100ml/100 lt)	Asrequired	30
Soybean	Rust	0.005% (5g/100 lit)	0.1%or (100ml/100 lit)	Asrequired	30

Tea	Blister blight	10gm	200ml	70-90 with power sprayers, 175-200 withknap Sack sprayer	7
Grapes	Powdery mildew	25-50gm	500-1000ml	500	14
Hexaconazole 5% SC					
Mango	Powderymildew	0.01% (10 g/100 lt. water)	0.2%or (200ml/100 lt.water)	Asrequired dependingonsizeof treeand plant protection equipment used.	27
Rice (Paddy)	Sheath blight	0.01% (10 g/100lt.water)	0.2%or (200ml/100 lt.water)	Asrequired dependingonsizeof treeand plant protection equipment used.	40
Grapes	Powdery mildew	25-50 gm	500-1000	500	14
Hexaconazole 75% WG					
Paddy (Rice)	Sheath blight&Sheath rot	50	66.7	500	30
Groundnut	Tikka leaf spot, rust	50	66.7	500	31
Chilli	Leaf spot, anthracnose, Powdery mildew	50	66.7	500	7
Iprodione50% WP					
Rapeseed/ Mustard	Alternaria blight	1.125Kg -1.5 kg	2.25kg-3kg	750-1000	50
Rice (Paddy)	Sheath blight	1.125kg	2.25kg	750	35
Tomato	Early blight	0.75kg	1.5kg	500	15
Grapes	Anthracnose	0.5-1.0 kg	1.0–2.0kg	500	20
Isoprothiolane 40% EC					
Rice (Paddy)	Blast	300	750	500-1000	60
Kasugamycin3% SL					
Rice (Paddy)	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30

Tomato	Early blight	30-37.5 0.03-0.0375%	1000-1250 ml	500-600	03
Kitazin 17% GR					
Rice (Paddy)	Blast	0.5 kg	3 kg	Not applicable	15 days
Kitazin 48% EC					
Rice (Paddy)	Blast, Sheath blight	0.10% or100 gramin 100ltr. ofwater	0.20%or 200mlin 200lit.of water	Asrequired depending upon crop stageand plant protection equipment used	15
Chilly	Fruit rot /die-back	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit. of water	Asrequired depending upon crop stageand plant protection equipment used	3
Tomato	Early blight	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stageand plant protection equipment used	5
Potato	Early blight	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit. of water	As required depending upon crop stage and plant protection equipment used	48
Onion	Purple blotch	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stage and plant protection equipment used	63
Pomegranate	Anthracnose	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lt. of water	Asrequired depending upon crop stage andplant protection	10

				equipment used	
Grape	Anthracnose	0.10% or100 gramin 100lit. ofwater	0.20%or 200mlin 200lit.of water	As required depending upon crop stage and plant protection equipment used	15
Kresoxim-methyl 44.3% SC					
Paddy (Rice)	Blast, Sheath blight	250gm	500 ml	500	30
Grapes	Powdery mildew, Downey mildew	300-350gm	600-700ml	500	7
Chillies	Powdery mildew, Fruit rot , die back, twig blight	250	500	500	25
Soybean	Rust	250	500	500	25
Potato	Early blight & late blight	250	500	500	25
Cotton	Leaf spot, Grey mildew	250	500	500	25
Wheat	Rust, Leaf blight	250	500	500	25
Maize	Turcicum leaf blight, Rust	250	500	500	25
Lime Sulphur 22% SC					
Apple	Scale, Powdery mildew	0.22%	The liquid is used at 1% in conventional sprayers.		2% pre & 1% post blossom
Cherry	Leaf spot	0.44-1.10/ha	2-5 lit/hectare		3 applications after petal fall , 2 weeks later & after harvest
Grapes	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		February followed by 2 dusting in summer

Pear	Black spot	0.44-1.10/ha	2-5 lit/hectare		At whit bud, Petal fall
Plum	Black spot	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Rose	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Bean	Rust	0.22%	The liquid is used at 1% in conventional sprayers.		2% pre & 1% post blossom
Peach	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Only one application before the buds swell, 3 pre harvest application
Mancozeb35%SC					
Tomato	Early blight& Lateblight	0.175% or175 gm/100 Lt. water	0.5%or500 gm/100lt. water	500Lt.Water or as required depending upon crop stage and equipment used	10
Potato	Early blight & Late blight	0.175%or1 75gm/100 Ltr. water	0.5%or500 gm/100lt. water	500Lt Water or as required depending upon crop stage and equipment used	35
Mancozeb 75% WG					
Tomato	Early blight	750gm	1000gm	500Ltr.	5-6
Potato	Late blight	750gm	1000gm	500Ltr.	3-5
Apple	Scab, Pre-mature leaf fall, Alternaria spot/blight, sooty blotch	18.75-22.5/tree	25-30/tree	10L/tree	40
Mancozeb75%WP					
Wheat	Brown& black rust, Blight	1.125-1.5 kg	1.5-2kg	750Ltr..	-
Maize	Leafblight, Downy mildew	1.125-1.5 kg	1.5-2kg	750Ltr.	-

Paddy (Rice)	Blast	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Jowar	Leafspot	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Potato	Lateblight, Earlyblight	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Tomato	Lateblight, Buckeye rot, Leafspot	1.125-1.5 kg	1.5-2kg	750Ltr.	-
Chilies	Damping off	2.25g	3g (soil drench)	1000 Ltr.	-
	Fruitrot, Riperot, Leafspot	1.125-1.5kg	1.5-2kg	750Ltr.	-
Cauliflower	Collarrot	2.25gm	3gm	1000 Ltr.	-
	Leafspot	1.125-1.5kg	1.5-2kg	750Ltr.	-
Groundnut	Tikka disease& rust	1.125-1.5kg	1.5-2kg	750Ltr.	-
	Collar rot, Leaf spot	18.75 to 22.50/ 10 kg seed	25 to 30/ 10 kg seed	0.1 (water slurry)	-
Grapes	Angular leafspot, Downy mildew, Anthracnose	1.125-1.5kg	1.5-2kg	750Ltr.	-
Guava	Fruitrot	15g/tree	20g/tree	10Ltr.	-
Banana	Cigar end rot, Tip rot, Sigatoka leafspot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Apple	Scab& sooty blotch	22.5 g /tree	30gm/tree	10Ltr.	-
Cumin	Blight	1.125-1.5 kg	1.5-2kg	500Ltr.	-
Mandipropamid23.4% SC					
Grapes	Downy mildew	0.2 ml/Ltr.	0.8 ml/Ltr.	500-1000	5
Potato	Late blight	0.2 ml/Ltr.	0.8 ml/Ltr.	500-750	40
Tomato	Late blight	0.02% or 0.2 ml/Ltr.	0.08% or 0.8ml/Ltr.	500	5
Cucumber	Downy Mildew	100 g/a.i./L or 0.2 g a.i./L	400 ml/ha or 0.8 ml/L	500	7

Watermelon	Downy Mildew	100 g/a.i./L or 0.2 g a.i./L	400 ml/ha or 0.8 ml/L	500	10
Bittergourd	Downy Mildew	100 g/a.i./L or 0.2 g a.i./L	400 ml/ha or 0.8 ml/L	500	7
MeptylDinocap 35.7% EC					
Grapes	Powdery mildew	108-120	308.6-342.8	750-1000	30
Chillies	Powdery mildew	108-120	308.6-342.8	500-750	7
Mango	Powdery mildew	108-120	308.6-342.8	1000	7
Pea	Powdery mildew	108-120	308.6-342.8	500	7
Metalaxyl-M 31.8% ES					
Maize	Downey mildew	0.76	2.4		3.5-4 months
Chilli	Damping Off	0.64	2.0		used as seed dresser
Tomato	Damping Off	0.64	2.0		used as seed dresser
Pearl millet	Downey mildew	0.64	2.0		76
Sorghum	Downey mildew	0.64	2.0		114
Sunflower	Downey mildew	0.64	2.0		90
Mustard	Downey mildew and White rust	1.11	3.5		used as seed dresser
Metalaxyl 35% WS					
Maize	Sorghum Downy mildew, Sugarcane downy mildew, Phillippine Downy mildew, Brownystripe downy mildew	Slurryseed treatment with240g/ 100 kg seed	700g/100 Kgseed	0.75-1.0/100 Kg seed	3½-4months Dependingonth e variety
Bajra	Downymildew	Slurryseed treatmentwit h200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3-3½months Dependingon the variety

Sorghum	Downymildew	Slurry seed treatment with 200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3½-4months Dependingon the variety
Sunflower	Downy mildew	Slurry seed treatment with 200g/100 Kgseed	600g/100 Kgseed	0.75-1.0/100kg seed	3½-4months Dependingon the variety
Mustard	Whiterust	Slurry seed treatment with 200g/100 Kgseed	600gm/100 Kgseed	0.75-1.0/100kg seed	3½-4months Dependingon the variety
Metiram70%WG					
Tomato	Alternariablight	1750gm	2500gm	500-750 Lt.	6
Groundnut	Tikka	1400gm	2000gm	500-750Lt.	16
Potato	Late blight, Early Blight	1400 gm	2000 gm	500-750 Lt	17
Grape	Downey mildew	1400 gm	2000 gm	500-750 Lt	07
Rice (Paddy)	Blast and Brown spot	1050-1400	1500-2000	500	51
Metrafenone 500 g/l SC					
Grape	Powdery mildew	125	250	750	22
Mango	Powdery mildew	200	0.2ml/l	1000	35
Apple	Powdery mildew	187.5	0.15ml/l	2500	42
Cucumber	Powdery mildew	125	250	500	35
Myclobutanil 10% WP					
Apple	Scab	0.004%	0.04%	10 lit/ tree	21
Grape	Powderymildew	0.004%	0.04%	500 lit/ha	15
Chilies	Powdery mildew,	0.004%	0.04%	500lit/ha	03

	Leafspot, Die-back				
Oxathiapiprolin 10.1% OD					
Potato	Late blight	20	200	500	22 days
Grapes	Downey mildew	40	400	1000	5 days
Penconazole 10% EC					
Grapes	Powderymildew	0.005% or5 gm/100 Ltr. water	50ml/100Ltr. water	Dependingupont he requirement	30
Apple	Scab	0.005% or5 gm /100 Ltr. water	50ml/100Ltr. water	10Ltr. Waterper tree	30
Mango	Powderymildew	0.005% or5 gm/100 Ltr. water	50ml/100Ltr. water	10Ltr. Waterper tree	30
Pulses (Black gram /Greengram)	Powderymildew	0.005% or5 gm/100 Ltr. water	50ml/100Ltr. water	500Ltr./ha	30
Penflufen 22.43% FS					
Potato	Black Scurf	0.02	0.083	83	800 kg seed tubers of potato are dipped in the solutions of fungicide for 10 minutes. Tubers after treatment are dried in shade and then sown.
Pencycuron 22.9% SC					
Rice (Paddy)	Sheathblight	150-187.5gm	600-750ml	500	69
Potato tuber	Black scurf	0.0625-0.125	0.25-0.50	-	78
Picoxystrobin 22.52% w/w SC					

Rice (Paddy)	Rice blast	150	600	500	12
Grape	Downey mildew, Powdery mildew	100	400	750-1000	7
Soybean	Rust(*Phakopsora pachyrhizi*) Leaf spot (*Cercospora kikuchii*& *Alternaria alternata*)	100	400	500	25
Cumin	Cumin blight (*Alternaria burnsii*)	100	400	500	20
Polyoxin D Zinc Salt 5% SC					
Grape	Powdery Mildew	30 gm	600 gm	500 - 1000	0
Rice	Sheath Blight	30 gm	600 gm	500	0
Prochloraz 39.6% w/w EC					
Rice	Blast	450	1000	500	26
Propiconazole 25% EC					
Wheat	Karnalbunt (*Neovossiaindica*)	125gm	500gm	750	30
	Leaf rust / Brown Rust (*Pucciniarecondite F.sp. tritici*)	125gm	500gm	750	30
	Stemrust (*B.graminisf.sp. tritici*)	125gm	500gm	750	30
	Stripe rust /Yellow Rust (*P. striiformis*)	125gm	500gm	750	30
Rice (Paddy)	Sheath blight (*Rhizoctoniasolanif.sesakii*)	125gm	500gm	750	30
Groundnut	Earlyleaf spot (*Cercospora arachidicola*)	125gm	500gm	750	15

	Lateleafspot (*C. personata*)	125gm	500gm	750	15
	Rust (*Puccinia arachidis*)	125gm	500gm	750	15
Tea	Blister blight	31.25-62.50gm	125-250gm	175-250	7
Soyabean	Rust(*Phakopsoa pachyrhizi*)	125gm	500gm	500	26
Cotton	Alternaria leaf spot	125gm	500gm	500	23
Propineb70%WP					
Apple	Scab	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponsize ofthetree andplant protection equipment used	30
Pomegranate	Leafand Fruitspots	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponsize ofthetree andplant protection equipment used	10
Potato	Early& Lateblight	0.21%or 210g/100 Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	15
Chilli	Die-back	0.21%or 210 g/100Ltr. water	0.5%or500 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	10
Tomato	Buckeyerot	0.21%or 210 g/100Ltr.	0.30%or300 gram/100Ltr. water	As required depending	10

		water		uponcrop stageand plant protection equipment used	
Grapes	Downymildew	0.21%or 210 g/100Ltr. water	0.30%or300 gram/100Ltr. water	As required depending uponcrop stageand plant protection equipment used	40
Rice (Paddy)	Brownleaf spot and Narrow leaf spot	1050to 1400 g	1500to2000 g	Use 500 Litrespray volume/hectare	-
Cotton	Alternaria leaf spot	875-1050	1250-1500	500Ltr./ha	27
Pyraclostrobin 20% WG					
Tomato	Early blight	75-100 gm	375-500gm	500	3
Soybean	Frog eye leaf spot (Cercospora)& Alternaria leaf spot	75-100	375-500	500	26
Cotton	Alternaria Leaf blight	100	500	500	14
Groundnut	Tikka disease	100	500	500	29
Corn	Turcicum leaf blight	100	500	500	40
Banana	Sigatoka leaf spot	150	750	500	103
Chilli	Anthracnose	100	500	500	3
Pyraclostrobin 100g/l CS					
Paddy (Rice)	Blast Disease	100	1000	500	18
(Streptomycin Sulphate 90% + TetracylinHydrocloride 10%) SP					
Apple	Fireblight	-	Spray Streptocycline25to50 ppmsolution at20to30% bloom.Itis	-	-

			advisableto spraytrees every3to4 days during blossomtime.		
Beans	Haloblight	-	Spray Streptocycline10 0 to 150ppm solutionthriceat intervalof7 days.For preventionapply first spray10 days after emergence ofleaf.	-	-
Citrus	Citruscanker	-	Spray Streptocycline5 0to100 ppm solution repeatedlyatan intervalof15to 20 days after the appearance ofnew growth. Coverthe foliageand youngfruits fully.	-	-
Potato	Blackleg Andsoft rot, bacterial brownwilt orringor Thebangle Diseaseof potato	-	**Seeds treatment**: Prior to planting soak potato seed tubers in streptocycline4 0to100 ppm solution for halfanhour. **Spray:**Two tothree sprays of40 to50ppm Solutionat	-	-

			aninterval of20days. Firstspray 30days after planting.		
Tobacco	Wildfire	-	Spray Streptocycline 40to100 ppm solution at two leaf stageofthe plant. Repeated application atan intervalof 7 days is necessary till the plants get established inthefield.	-	-
Tomato	Bacterial Leafspot	-	Spray seedlings with streptocycline40to100 ppm solution in seed beds and fields after the appearance of first true leaves two sprays of streptocycline, one before transplanting and another after areeffective for controlling thedisease.	-	-
Paddy (Rice)	Bacterial Leafblight	-	**Seeds treatment:** Prepare streptocycline 40 ppm solutionand soak seeds for12hours at	-	-

			room temperature before sowing. **Seedling treatment:** Dip the seeding in streptocycline40to100 ppm solution. The antibiotic will be absorbed through the injured roots and penetrate the vascular bundles insides the seedlings. **Spray:** Spray streptocycline 100to 150ppmsolution at earlyroot stage. Second spray,if necessary beforegrain set.		
Tea	Blister Blight	-	It is fungal Disease and can be controlled by spraying 40gmswith 350 to 420 gmscopper oxychloride (50% Wettable powder) in 67 liters of water perhectarewith air blast sprayer, coveringtworo wson	-	-

			eitherside.		
Sulphur40%SC					
Beans	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Cumin	Powdery mildew	1.40g	3.50 Kg	1000	-
Grapes	Powdery mildew	1.22 Kg	3.00 Kg	1000	-
Groundnut	Tikkaleaf spot	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Mango	Powdery mildew	1.50-2.00Kg	3.75-5.00 Kg	1000	-
Opium	Powdery mildew	1.16 Kg	3.00 Kg	1000	-
Peas	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Roses	Powdery mildew	1.50-2.00Kg	3.75-5.00 Kg	1000	-
Sulphur 52% Flowable					
Pea	Powdery mildew	1.04Kg	2.00Ltr.	400	-
Chilli	Powdery mildew	1.04Kg	2.00Ltr.	400	-
Sulphur 55.16% SC					
Grapes	Powderymildew	0.165%or 165 g/10Ltr. water	0.30%or300 ml/100Ltr. water	As required	10
Mango	Powderymildew	0.165%or 165g/10Ltr. water	0.30%or300 ml/100Ltr. water	As required	10
Sulphur 80% WP					
Apple	Powdery mildew	2-4kg	2.5-5.0Kg	750-1000	-
Grapes	Powdery mildew	2-4kg	2.5-5.0Kg	750-1000	-
Groundnut	Tikka leaf spot	2-4kg	2.5-5.0Kg	750-1000	-

Cowpea, Moong/Urid	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Pea	Rust	2.5kg	3.13Kg	750-1000	-
Sorghum	Grainsmut	2.4-3.2 g/kg seed	3-4g/Kg seed	1Lt/10kg seed	-
Chillies& Okra	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Mango	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Citrus	Powdery mildew	2.5kg	3.13Kg	750-1000	-
Sulphur80%WG					
Grapes	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea, Guar, Pea	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cumin	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Apple	Scab	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Mango	Powderymildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Wheat	Powderymildew	2000	2500	500	24
Sulphur85%DP					
Grape	Powdery mildew	12.75-17kg	15-20kg	-	-
Groundnut	Tikkaleaf spot	12.75-17kg	15-20kg	-	-
Beans (Cowpea, moong, Urd)	Powdery mildew, Rust	12.75-17kg	15-20kg	-	-
Pea	Powdery mildew	12.75-17kg	15-20kg	-	-
Rubber	Powdery mildew	31.875 kg	37.50 kg	-	-
Cumin & Coriander	Powdery mildew	12.75-17kg	15-20kg	-	-
Tobacco (on ground)	Powdery mildew	85kg	100kg	-	-
Sorghum	Grain smut	2.55-3.40 g/kg of seed	3-4 g/kg of seed	-	-
Tebuconazole 2% DS					
Wheat	Loosesmut, Flag smut	0.2kg/10kg seed	10Lt/10kg seed		

Groundnut	Collarrot, Rootrot, Stemrot	0.2to 0.25kg/10kg seed	10 to 12.5Lt/10 kgseed		
Tebuconazole 5.36% FS					
Wheat	Loose smut	0.2	3.33/10kg of seed	-	-
Tebuconazole5.4% w/w FS					
Groundnut	Collar rot, Stem rot, Wilt	0.24 g/10 Kg of seed		-	Seed dresser
Chickpea	Root rot, Wilt	0.24 g/10 Kg of seed	4.0 ml/10 Kg of seed	-	Seed dresser
Wheat	Loose smut & flag smut	0.18 g/10 Kg of seed	3.0 ml/10 Kg of seed		Seed dresser
Tebuconazole25.9%EC					
Chilli	Fruit rot, Powdery mildew	0.125-0.1875 kg	0.500-0.750 lit	500	5
Groundnut	Tikka& rust	0.125-0.1875 kg	0.500-0.750 lit	500	49
Rice (Paddy)	Blast, Sheath blight	0.1875 kg	0.750 lit	500	10
Onion	Purple blotch	0.1563-0.1875	0.625-0.750	500	21
Soybean	Anthracnose (pod blight)	0.1563	0.625	500	14
Black gram	Leaf spot, Anthracnose	187.5	750	500	17
Tebuconazole25% WG					
Chilli	Powdery mildew, fruit rot	0.125-0.1875	0.500-0.750	500	5
Groundnut	Tikka leaf spot, rust	0.125-0.1875	0.500-0.750	500	22
Rice (Paddy)	Blast	0.1875	750	500	10

Wheat	Yellow rust	0.1875	0.750	500	41
Onion	Purple blotch	0.1875	0.1875	500	10
Cumin	Alternaria blight & Powdery mildew	0.1875	0.750	500	28
Tebuconazole 38.39% w/w SC					
Wheat	Yellow Rust and powdery	258	600	375-500	5
Cabbage	Alternaria leaf spot	258	600	375-500	5
Grape	Powdery mildew	215 to 236.5	500-550	375-500	60
Onion	Purple blotch and Stemphylium blight	189.2 to 215	440-500	375-500	43
Rice	Sheath Blight	187.5 to 215	436-500	375-500	35
Groundnut	Tikka leaf spot	187.5 to 215	436-500	375-500	32
Chilli	Powdery mildew and Cercospora leaf spot	189.2 to 215	440-500	375-500	5
Soybean	Leaf spot (Alternaria, Cercospora & Myrothecium)	258	600	500	28
Tetraconazole 3.8% w/w EW					
Grape	powdery mildew	25-30	625-750	500-1000	30
Mango	powdery mildew	50	1250	1000	24
Watermelon	powdery mildew	40	1000	500	12

Tea	Blister Blight	19	500	175	7
Tetraconazole 11.6% w/w (12.5% w/v) SL					
Cotton	Root rot (*Rhizoctoniasolani*)	15	120	Sufficient to coat the seed uniformly	NA (Seed dresser)
Thifluzamide24%SC					
Rice (Paddy)	Sheath blight, *(Rhizoctoniasolani)*	90gm	375 gm	500	28
Tomato	Early blight	120	500	500	7
Potato	Black Scurf	0.6g a.i./10 kg potato tuber	2.5ml/10 kg potato tuber	-	Used as seed treatment
ThiophanateMethyl70%WP					
Papaya	Powdery mildew	500gm	715gm	750-1000	4-8
Apple	Scab	500gm	715gm	750-1000	3
Tomato	Ring rot	500gm	715gm	750-1000	7
Bottle gourd	Anthracnose	1000gm	1430gm	750-1000	1
Grapes	Powdery mildew, Anthracnose, Rust	500 500 500	715 715 715	750-1000 750-1000 750-1000	7
Thiophanatemethyl70%WG					
Bottle gourd	Anthracnose	750-1000	1070-1430	750-1000	1
Thiophanatemethyl 41.7% SC					
Paddy	Blast, Sheath rot, Grain Discoloration	500	1000	500	37
Groundnut	Tikka leaf spot	500	1000	500	27
Chilli	Fruit Rot/Antracnose	500	1000	500	10
Thiram 40% FS					
Maize	Seedling blight	9.6gm/10 kg seeds	24ml/10 kg seeds	100 ml	Seed dresser
Thiram75%WS					
Groundnut	Collarrot	37.5gm	50gm	1	7-10

Wheat	Flagsmut	18.8-22.5 gm	25-30gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30gm	1	7-10
Barley	Leafstripe	18.8-22.5 gm	25-30gm	1	7-10
Maize	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Sorghum	Loosesmut	18.8-22.5 gm	25-30gm	1	7-10
	Seedlingblight	18.8-22.5 gm	25-30gm	1	7-10
Potato	Scab	18.8-22.5 gm	25-30gm	1	7-10
Rice (Paddy) &cotton	Seedborn disease	18.8-22.5 gm	25-30gm	1	7-10
Triadimefon 25% WP					
Wheat	BuntofWheat	0.025%	0.500kg	750	25
	Powdery mildew	65-135 gm	0.260-0.520	750	25
	Brown rust, Yellow rust, Black rust	250	1.0	750	25
Pea	Rust, Powdery mildew	0.025%	0.100%	750	25
Grapes	Powdery mildew	0.0025%	0.010%	750	25
Tribasic Copper sulfate 34.5% SC					
Cucumber	Downy mildew	690	2000	500	7
Chilli	Leaf spot &Anthrcnose	690	2000	500	5
Tricyclazole75%WP					
Paddy (Rice)	Blast	225-300 gm	300-400gm	500	30
Validamycin3%L					
Rice (Paddy)	Sheath Blight	60gm	2000gm	750	Theres houldb enoresi dues

					on grains andstraw ofpaddy14days beforethe harvest.
Zineb75%WP					
Jowar	Redleaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Paddy (Rice)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Wheat	Rust, blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Maize	Leafblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ragi (Bajra)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tobacco	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Onion	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Blight	1.125-1.5 KG	1.5-2KG	750-1000 Lt	
Potato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Lateblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tomato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Lateblight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Greyleaf mould	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Chillies	Fruitrot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-	1.5-2KG	750-1000 Lt	

		1.5KG			
Brinjal	Blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cucurbits	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Anthracnose	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cauliflower	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cumin	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Apple	Scab	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Black rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Citrus	Greasy spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cherries	Leafspot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Grapes	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Guava	Fruitrot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ziram80%WP					
Grape	Downy mildew	1.2-1.6 kg	1.5-2.0kg	750-1000	--
	Anthracnose	1.2-1.6 kg	1.5-2.0kg	750-1000	--
Apple	scab	1.2-1.6 kg	1.5-2.0kg	750-1000	21
Potato	Early blight	1.2-1.6 kg	1.5-2.0kg	750-1000	3
Tomato	Early blight	1.2-1.6 kg	1.5-2.0kg	750-1000	3

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2. Fungicides Combination Uses

Crop	Common name of the disease	Dosage/ha (a.i.)	Dosage/ha (Formulation)	Dilution	Waiting Period
Azoxystrobin 4.8% w/w + Chlorothalonil 40% w/w SC					
Watermelon	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	5
Cucumber	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	3
Cauliflower	Leaf spot, downy mildew	1.344 (0.144+1.2)	3.0	500	3
Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC					
Wheat	Rust and Powdery mildew	0.26	1	500 (via Knapsack sprayer) 20 (via Drone application)	50
Maize	Downy mildew, Turcicum leaf blight and Rust	0.26	1	500	52
Ametoctradin 27%+ Dimethomorph 20.27% w/w SC					
Grape	Downey mildew	420-525	800-1000ml	750	34
Cucumber	Downey mildew	420-525	800-1000ml	500	07
Potato	Late Blight	420-525	800-1000ml	500	32
Tomato	Late Blight	420-525	800-1000ml	500	03
Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC					
Chilli	Anthracnose & Powdery Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	5
Tomato	Early blight & Late blight	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	5

Paddy (Rice)	Blast & sheath blight	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	31
Paddy	Blast & sheath blight	150	500	20 (via drone application)	31
Maize	Blight & Downey Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	26
Wheat	Rust & Powdery mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	35
Cotton	Leaf spot and Grey mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	12
Turmeric	Leaf blotch,leaf spot and Rhizome rot	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	60
Onion	Purple blotch,Stemphyliu m blight and Downy mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	7
Sugarcane	Red rot,Smut and Rust	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	400	265
Ground nut	Tikka leaf spot & Rust	148 g/ha (91 +57)	500 ml/ha 1 ml/lit water	500	46
Black gram	Leaf spot & Powdery mildew	148 g/ha (91 +57)	500 ml/ha 1 ml/lit water	500	23
Soybean	Leaf spot & Rust	148 g/ha (91 +57)	500 ml/ha 1 ml/lit water	500	16
Azoxystrobin 14 % + Epoxiconazole 9 % SC					
Rice	Sheath blight	(105+67.5)	750	375	28
Azoxystrobin 10% + Fipronil 5% SC					
Rice	Sheath blight & Leaf blast	62.5 + 125	1250	500	53
Chilli	Powdery mildew & Anthracnose/Fruit rot	50 + 100	1000	500	05

Azoxystrobin 8.3% + Mancozeb 66.7% WG					
Grape	Powdery mildew , Downy mildew, Anthracnose	124.5+1000	1500	500-750(in water)depending on crop canopy	21
Chilli	Powdery mildew, Leaf spot, Anthracnose	124.5+1000	1500	500 20 (via drone application)	7
Azoxystrobin 11.5% + Mancozeb 30% WP					
Tomato	Early blight and late blight	(86.5+225) to (100.62+ 262.50)	750-875	500	3
Azoxystrobin 4.7% + Mancozeb 59.7% + Tebuconazole 5.6% WG					
Cucumber	Downy mildew, Powdery mildew, Anthracnose	1400	2000	500	10
Azoxystrobin 7.1% + Propiconazole 11.9% w/w SE					
Rice	Sheath Blight	37.5+62.5	500	500	43
Wheat	Yellow rust (*Pucciniastriiformis*f .sp. *Tritici*)	56.25+93.75	750	500	45
Azoxystrobin 11% + Tebuconazole 18.3% w/w SC					
Chilli	Fruit rot, Powdery mildew, Die-back	72+120	600	500-750	5
Rice (Paddy)	Sheath Blight	82.5+137.25	750	800	-
Onion	Purple blotch	82.5+137.25	750	800	7
Apple	Scab, powdery mildew& premature leaf fall	0.11+0.183	1.0	8 – 12	10
Wheat	Yellow Rust	82.5+137.25	750	500	-
Tomato	Early blight	82.5+137.25	750	500	7
Potato	Early blight, Late blight	82.5+137.25	750	500	-
Grape	Downy mildew,	82.5+137.25	750	500	10

	Powdery mildew				
Azoxystrobin 12.5% + Tebuconazole 12.5% SC					
Chilli	Powdery mildew & fruit rot	0.1+0.1 (0.2)	0.800	500	5
Azoxystrobin 120 g/L + Tebuconazole 240 g/L SC					
Rice	Blast and Sheath blight	249 g	830 ml	500 Lit	24 days
Chilli	Fruit rot, Dieback & Powdery mildew	249 g	830 ml	500 Lit	7 days
Azoxystrobin 5.1%w/w +Tebuconazole 9.1% w/w+ Prochloraz 18.2 % w/w EC					
Rice	Blast (*Pyriculariaoryaze)* & Sheath Blight (*Rhizoctoniasolani)*	98.0 + 175.0 + 350.0	1750	500	40
Chilli	Anthracnose Leaf Spot, Die Back, Fruit rot, (*Colletotrichumcapsici)* and Powdery Mildew (*Leveillulataurica*)	70.0 + 125.0 + 250.0	1250	500	10
Black Gram	Leaf Spot (*Cercospora canescens)*& Powdery Mildew (*Erysiphepoligoni*)	70.0 + 125.0 + 250.0	1250	500	35
Azoxystrobin 1.3% + Tebuconazole 0.22% + Thiamethoxam 25.9% FS					
Okra	Damping off *(Rhizoctonia spp. & Pythium spp.)*	0.9+0.15+18.0	60	NA	NA
Azoxystrobin 2.5% + Thiophanate Methyl 11.25% + Thiamethoxam 25% FS					
Soybean	*Fusarium* root rot, *Phytophthora* root rot, *Rhizoctonia* seedling blight, *Pythium* seedling blight	38.75 g/10 kg seeds	100 ml/10 kg seeds	Not applicable	-
Azoxystrobin 16.7% + Tricyclazole 33.30% SC					
Rice	Sheath blight, Blast, Brown spot	83.5 + 166.5	500	500	24
Benalaxyl-M 4% + Mancozeb 65% WP					

Grape	Downey mildew	1897.5	2750	750-1000	48
Benalaxyl 8% + Mancozeb 65% WP					
Cucumber	Downy mildew	200+1625	2500	500	5
Boscalid25.2%+Pyraclostrobin12.8%WG					
Grape	Downey Mildew& Powdery mildew	190-228	500-600	750-1000	34
Chilli	Powdery mildew	228	600	500	10
Apple	Powdery mildew	285	750	2500	41
Onion	Purple blotch,	190	500	500	24
Tomato	Early blight	190	500	500	10
Captan70%+ Hexaconazole5%WP					
Chilli	Fruitrot (Anthracnose)	375-750	500-1000	500	5
Potato	Earlyblight &Late blight	375-750	500-1000	500	21
Blackgram	Powdery mildew, Rust	562.5	750	500	20
Cumin	Alternaria blight	562.5	750	500	17
Tomato	Early blight, Powdery Mildew, Leaf Spot and fruit rot	562.5	750	500	7
Carbendazim 1.92% + Mancozeb 10.08% GR					
Paddy (Rice)	Blast, sheath blight	240+1260	12.5	Broadcasting	46
Carbendazim12%+ Mancozeb63%WP					
Groundnut	Leafspot	375gm	500gm	500lt.	72
Paddy (Rice)	Blast	563gm	750gm	750lt. 20 ltr/ha (via drone application)	57
Potato	Early blight , late blight , black scruff	1312.5	1750	500	47

Tea	Blister blight , grey blight , red rust , die-back , black rot	937.5	1250	250-500	7
Grape	Downey mildew, powdery mildew, anthracnose	0.11%	0.15%	As required depending on crop canopy	7
Mango	Powdery mildew and anthracnose	0.11%	0.15%	As required depending on crop canopy	7
Chilli	Leaf Spot, Fruit rot, and Powdery mildew	563	750	500 20 ltr/ha (via drone application)	3
Maize	Downy mildew and Leaf blight	120+630	1000	500	37
Apple	Fruit scab & Powdery mildew	0.19%	0.25	As required depending upon crop canopy	20
Cotton	Alternaria leaf spot & Grey mildew	180+945	1500	500	71
Soybean	Alternaria leaf spot, Myrothecium leaf spot, Pod & stem blight & Anthracnose	150 + 787.5	1250	500	31
Mandarin	Twig blight, Sooty mould, Anthracnose fruit rot and Anthracnose leaf spot	0.23%	0.30%	500	30
Groundnut (Seed Treatment)	Tikka leaf spot, Collar rot and dry root rot	1.88	2.5	-	Seed treatment
Carbendazim 25%+ Mancozeb 50% WS					
Groundnut	Collar rot, Dry root rot, Tikka leaf spot	(7.5+15.0) to (8.75+17.5) (for	30-35/10 kg	0.1	-

		10 kg seed)	seed		
Potato	Late blight, Black scurf	(1.5 + 3.0) to (1.75 + 3.5) (for 10 kg seed)	6 – 7/10 kg seed	2	-
Paddy (Rice)	Brown Spot, Blast , Sheath Blight	(7.5+15) to (8.75+17.5)	30-35	0.1	-
Wheat	Loose smut	(7.5+15) to (8.75+17.5)	30-35	0.1	-
Black gram	Root rot, Collar rot	7.5+15	30	0.1	-
Bengal gram	Dry Root rot, Collar rot	7.5+15	30	0.1	-
Soybean	Root rot, Collar rot	7.5+15	30	0.1	-
Onion	Damping-off	7.5+15	30	10	-
Maize	Seed rot, Seedling blight	7.5+15	30	0.1	-
Carbendazim 25 %+ Flusilazole 12.5% SE					
Paddy (Rice)	Sheath blight	300-360	800-960	500	54
Groundnut	Stem rot, Earlyleaf spot, Late leaf spot	240-300	640-800	500	72
Chilli	Powdery mildew, Fruit rot, Die-Back	375	1000	375-500	05
Apple	Alternaria blotch and Premature leaf fall	0.03%	0.08%	650-1000	09
Carboxin17.5%+ Thiram17.5%FF					
Wheat	Loose smut	8.75 to 10.5gm	25 to 30gm	100ml	Seed treatment
Carboxin37.5%+ Thiram37.5%WS					
Wheat	Loosesmut andother seedborne andearly soilborne diseases	2.25gm/Kg seed	3.0gm/Kgseed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Soybean	Collarrot, Charcoal rotand other seedling	2.25gm/Kg seed	3.0gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment

	diseases				waiting not required
Cotton	Root rot, Bacterial bight	2.5gm/Kg seed	3.5gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Groundnut	Collarrot,Seedrot,Rootrot, Stemrot	2.25gm/Kg seed	3.0gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Pigeonpea	Seedrot, Rootrot, Stemrot, Fusariumwilt	3gm/Kg seed	4.0gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Potato	Blackscurf	1.87gm/Kg seed	2.5gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Chlorothalonil 40.0% w/w + Difenoconazole 4.0 w/w SC					
Tomato	Early blight, Late blight	440^ (400+40)	1000	500 (via Knap sack) 20 (via drone application)	7
Chilli	Powdery mildew, Anthracnose, Fruit rot	440^ (400+40)	1000	500 (via Knap sack) 20 (via drone application)	7
Ground nut	Tikka leaf spot and Rust	400	1000	500	47
Apple	Powdery mildew,	352	800	1000	24

	Premature leaf fall and Scab				
^ Calculated as 550 (500=50) gm a.i./ha on w/v basis					
Copper Sulphate 47.15% + Mancozeb 30% WDG					
Grape	Anthracnose, Powdery Mildew & Downy mildew	2357.5+1500	5000	750-1000 Depending on crop canopy	10
Cymoxanil8%+ Mancozeb64%WP					
Grapes	Downy mildew	1080-1440 gm	1500–2000gm	500-1000	10days
Potato	Lateblight	1080gm	1500gm	500-750	10days
Tomato	Lateblight	1080gm	1500gm	500-750	10days
Cucumber	Downy mildew	1080gm	1500gm	500-600	10days
Citrus	Gemmosis (Foot Rot) (*Phytophthorapalmivora*)	180 g/100L of water + 18 g/l of water of linseed oil	250 g/100L of water + 25 g/l of water of linseed oil	10 l/tree;50 ml (linseed oil) tree	82 days
Difenoconazole 10 % + Mancozeb 50% WDG					
Paddy	Blast & Sheath Blight	62.5 + 312.5	625gm	500	33
Chilli	Powdery mildew, Die-Back&Fruit rot	62.5 + 312.5	625g gm	500	13
Difenoconazole 6% + validamycin 6% SC					
Rice	Blast & Sheath Blight	60.0 + 60.0	1000	500	40
Dimethomorph 12% + Pyraclostrobin 6.7% WG					
Grape	Downy mildew	280.5	1500	750-1000	34
Cucumber	Downy mildew	280.5	1500	500	10
Potato	Late blight	183.75	1250	500	26
Famoxadone16.6%+ Cymoxanil22.1%SC					
Grapes	Downy mildew	210	500	500-750	27
Potato	Late blight	210	500	500	40
Tomato	Early and Late blight	210	500	500	3
Gherkin	Downy mildew	210	500	500-750	3
Fenamidone4.44%+ Fosetyl-AL 66.7%WDG					
Grape	Downy mildew	88.8+ 1334 - 111.0+ 1667.5 gm	2000-2500gm	500-750 lt.	90days
Fenamidone10%+ Mancozeb50%WG					
Potato	Lateblight	125+625-150+750gm	1250-1500gm	500lt.	30

Grapes	Downymildew	150+750 gm	1500gm	500-750	85
Gherkin	Downymildew	150+750 gm	1500gm	375-500	5
Flubendamide 3.5% + Hexaconazole 5% WG					
Paddy (Rice)	Sheath blight, Sheath rot	Flubendamide-35 & Hexaconazole-50	1000	500	30
Groundnut	Tikka Leaf spot & Rust	Flubendamide-52.5 & Hexaconazole-75	1500	500	31
Chilli	Leaf spot, Powdery mildew & Anthracnose	Flubendamide-52.5 & Hexaconazole-75	1500	500	10
Flubendiamide 7.5% + Kresoxim-Methyl 37.5% SC					
Rice	Leaf & neck blast, Sheath blight	50 + 250	667	500	30
Tomato	Early and Late blight	50 + 250	667	500	7
Fluopicolide 4.44% + Fosetylaluminium 66.67%WG					
Grape	Downy mildew	(99.9 + 1500) to (111+ 1667)	2.25-2.5	750ltr.	32
Fluopyram17.7% w/w+Tebuconazole 17.7%w/w SC					
Grape	Powdery mildew and Anthraconase	Fluopyram112.5 +Tebconazole112.5	562.5	750-1000	10
Chilli	Powdery mildew and Anthracnose	Fluopyram100 +Tebconazole100	500	500	5
Rice (Paddy)	False smut, Dirty panicle	Fluopyram110 +Tebconazole110	550 g/ha	500	22
Fluxapyroxad 75 g/l + Difenoconazole 50 g/l SC					
Grape	Powdery mildew	100	800	1000	32
Apple	Scab and Powdery mildew	125	1000	2500	33

Fluxapyroxad 62.5 g/l + Epoxiconazole 62.5 g/L EC					
Rice (Paddy)	Sheath blight	78.12-93.75	625-750	500	33
Fluxapyroxad 250g/l + Pyraclostrobin 250g/l SC					
Grape	Powdery Mildew	100	200	1000	10
Apple	Premature leaf fall & Alternaria leaf spot	187.5	15 ml formulation/ 100 lit water	2500	29
Mango	Powdery mildew	75-100	150-200	1000	38
Cucumber	Powdery mildew	100-125	200-250	500	10
Chilli	Powdery mildew, Anthracnose	100-125	200-250	500	7
Tomato	Early blight, Septoria leaf spot	100-125	200-250	500	10
Onion	Purple blotch	125	250	500	10
Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC					
Cotton	Alternaria leaf	150	300	500	27
Groundnut	Tikka	150	300	500	20
Soybean	Frog eye leaf spot	150	300	500	45
Hexaconazole 4% + Carbendazim 16% SC					
Paddy (Rice)	Sheath blight, and Blast	(30+120)	750	400 - 500	40
Hexaconazole 5.00% + Validamycin 2.50% SC					
Paddy (Rice)	Blast &Sheath blight	50+25	1000	500	22
Hexaconazole 4% + Zineb 68% WP					
Paddy (Rice)	Sheath Blight, Brown Spot, Blast , Grain discoloration	720-900	1000-1250	500	34

Tea	Black Rot , Grey blight, Blister Blight	25+425 gm	625	250-500	7
Apple	Scab, Premature leaf fall, Alternaria leaf spot/blight, Powdery mildew, Core rot	200+3400	0.25% or 25 gm/10 lit. water	10 litre/tree	30
Imidacloprid 18.5% + Hexaconazole 1.5% FS					
Groundnut	Collar rot, Stem rot, Tikka leaf spot, Rust	37:3	200	NA	This is used as seed dresser
Wheat	Smut, Rust, Termites, Aphids	37:3	200	NA	This is used as seed dresser.
Iprodione25%+ Carbendazim25%WP					
Rice (Paddy)	Sheath blight,Blast	250gm	500gm	500lt.	30
Iprovalicarb 5.5% + Propineb 61.25% WP					
Potato	Late Blight	110g + 1225 g	2.0 Kg	500	26
Grapes	Downy Mildew	123.75 g + 1378.13 g	2.25 kg (0.3%)	750	55
Tomato	Early and late blight	123.75 g +1378.13 g To 137.5 g +1531.25 g	2.25 to 2.5 Kg	500	5
Kasugamycin 5% + copper oxychloride 45% WP					
Grapes	Anthracnose, Bacterial leaf spot	375	750	400 – 1000	37 days
Rice (Paddy)	Leaf blast, Neck blast	350	700	375	26 days
Pomegranate	Bacterial blight, leaf spot, Fruit rot and Anthracnose	0.05%	0.1%	500-1000	10 days
Kasugamycin 6 % + Thifluzamide 26% SC w/v					

Paddy	Blast & Sheath blight	18 + 78 -- 20.70 + 89.70	300 - 345	500	17
Kresoxim-methyl 40% + Hexaconazole 8% WG					
Rice (Paddy)	Sheath blight, Leaf blast, Neck blast	Kresoxim-methyl-200 &Hexaconazole - 40	500	500	22
Kresoxim-methyl 15% + Chlorothalonil 56% WG					
Chilli	Powdery mildew, Leaf spot, Anthracnose	Kresoxim-methyl-150 & Chlorothalonil- 560	1000	500	5
Potato	Early blight and Late blight	Kresoxim-methyl-150 & Chlorothalonil- 560	1000	500	23
Kresoxim-methyl 18% + Mancozeb 54% WP					
Grapes	Powdery mildew, Downy mildew, Anthracnose	270+810	1500	750-1000	5
Tomato	Early blight, Late blight, Fruit rot	250+750	1388	500	7
Mandipropamid 5% w/w + Mancozeb 60 % w/w WG					
Cucumber	Leaf spot, Downy mildew	1.63	2.5	500	5
Mancozeb 63% + Carbendazim 12% WS					
Groundnut	Tikka leaf spot, collar rot, dry root rot	1.88	2.5	----	----
Mancozeb 40% + Azoxystrobin 7% OS					
Tomato	Early Blight & light blight	600g+105g	1500 g	500 L	5
Mancozeb 50% + Thiophanate methyl 25%WG					
Rice (Paddy)	Sheath blight and Brown leaf spot	750 + 375	1500	500	34
Mefentrifluconazole 133 g/l + Fluxapyroxad 89 g/l + Pyraclostrobin 178 g/l SC					
Groundnut	Rust & Tikka	250	625	500	37

	leaf spot				
MetalaxylM4%+ Mancozeb64%WP					
Grapes	Downy mildew	0.17% or 1700 gm	0.25% or 2500 gm	500-1000	8
Potato	Lateblight	0.17%or 1700 gm	0.25%or 2500gm	500-1000	24
Black pepper	*Phytophthora* footrot	0.17%or 1700gm	0.25%or2500gm	2 L/vine as folliar spray and 3 L/vine as soil drench	Not less than 21 weeks
Mustard	Downy mildew, White rust	0.17%or 1700gm	0.25% or 2500gm	1000	60
Chilli-nursery (soil drenching)	Damping off	0.20% or 2 g a.i./L water	0.30% or 3 g /L water	2.0 L/m^2	53
Pomegranate	Leaf spot & Fruit spot	0.17% or 1.7 g a.i./L water	0.25% or 2.5 g /L water	500 (or depending upon age of tree)	5
Metalaxyl M 3.3%+ Chlorothalonil 33.1% SC					
Potato	Late blight	0.073% or 364 g	0.2% or 1000 ml	500	34
Tomato	Early blight, Late blight	0.073% or 364 g	0.2% or 1000 ml	500	5
Citrus (Soil drench)	Phytopthora disease viz, Foot rot/gummosis, Root rot, Crown rot, Leaf fall and Brown rot	72.8 g a.i./100 lit water	200 ml/100 lit water	5 liter/tree	51
Ginger (Soil drench)	Rhizome rot	72.8 g a.i./100 lit water	200 ml/100 lit water or 2000 ml/ha	1000	193
Metalaxyl M 3.9% + Mancozeb 64% WG					

Grapes	Downy Mildew	1697.5	2500	500	60
Potato	Early blight and Late blight	1697.5	2500	500	32
Metalaxyl8%+ Mancozeb64%WP					
Grapes	Downymildew	2000gor 0.4%	2500gor 0.5%	500lt.	Notless than7 weeks
Tobacco Nursery	Dampingoff	3600gor 0.072%	5000gor 0.1%	1000lt.	Notless than7 weeks
	Leafblight/ Black Shank (Soil drenchat sowingand sprayat30days aftersowing)	1440gor 0.14%	2000gor 0.2%	1000lt.	Notless than7 weeks
Potato	Lateblight	1800gm or0.18%	2500gmor 0.25%	1000lt.	Notless than7 weeks
Mustard	Whiterust and Alternaria blight	1800gm or0.18%	2500gmor 0.25%	1000lt.	Notless than8 weeks
BlackPepper	Phytophthorafootrot	1.8ga.i/vine or0.09%	2.5gm/vine or0.125%	2lt./vine (spraying) 5lt./vine (soil drenching)	Notless than21 weeks
Pearlmillet	Downy mildew	1440gm or0.28%	2000gmor 0.4%	500lt.	Notless than7 weeks
Metiram 44% + Dimethomorph 9% WG					
Grapes	Downy mildew	1325	2500	1000	10
Metiram 55% + Pyraclostrobin 5% WG					
Tomato	Early blight	900-1050	1500-1750	500	5
Potato	Late blight	900-1050	1500-1750	500	15
Grape	Downy mildew	900-1050	1500-1750	750	34
Chilli	Anthracnose	900-1050	1500-1750	5	5
Onion	Purple blotch	900-1050	1500-1750	16	16
Cotton	Alternaria leaf spot	900-1050	1500-1750	45	45
Apple	Premature leaf fall disease & Alternaria leaf spot and blight	1750g/ha	100g/100L	1750	12

Pomegranate	Fruit spot	900-1050	1500-1750	500	67
Blackgram	Leafspot disease	900-1050	1500-1750	500	32
Cumin	Alternaria blight & Powdery mildew	900-1050	1500-1750	500	20
Greengram	Cercospora leaf spot	900-1050	1500-1750	500	18
Groundnut	Tikka disease	900-1050	1500-1750	500	42
Banana	Sigatoka leaf spot disease	900-1050	1500-1750	500	85
Cucumber	Downy mildew disease	900-1050	1500-1750	500	5
Bitter gourd	Downy mildew disease	900-1050	1500-1750	500	5
Penflufen 13.28% w/w + Trifloxystrobin 13.28% w/w FS					
Groundnut	Seed and Seedling rot disease	12.32+12.32-15.4+15.4	80 – 100		
Soybean	Seed and Seedling rot disease	12.32+12.32-15.4+15.4	80 – 100		
Picoxystrobin 7.05% + Propiconazole 11.7% SC					
Paddy (Rice)	Sheath blight, (*Rhizoctoniasolani*) False smut, (*Ustilaginoideavirens*) Dirty Panicle	200	1000	500	24
Wheat	Yellow Rust (*Pucciniastriiformis sp. tritici*)	200	1000	500	52
Picoxystrobin 6.78% + Tricyclazole 20.33 %w/w SC					
Paddy (Rice)	Leaf Blast & Neck Blast	300	1000	500	29

Chilli	Anthracnose, Wet rot, Powdery mildew	300	1000	500	3
Prochloraz 34.8% + Propiconazole 7.8% w/w EC					
Rice	Grain discoloration (Fungal complex i.e*Curvularia* sp., *Sarocladiumoryzae*, *Phoma* sp., *Microdochium*sp., *Nigrospora*sp., *Fusarium* sp., etc.)	400.0 + 90.0	1000	500	15
Groundnut	Early leaf spot (*Cercospora arachidicola*), Late leaf spot (*Phaeoisariopsispersonata*) & Rust (*Pucciniaarachidis*)	300.0 + 67.5	750	500	19
Prochloraz23.5% + Tricyclazole 20.0% w/w SE					
Rice	Blast disease	235+200	1000	500	28
Prochloraz 24.4% + Tebuconazole 12.1% w/w EW					
Chilli	Fruit rot,Die-back &Powdery mildew	267+133	1000	500	5
Prochloraz 5.7% + Tebuconazole 1.4% w/w ES					
Chickpea	Root rot (*Rhizoctoniasolani*), Wilt (*Fusarium* spp.)	0.18+ 0.045	3.0 ml/10 kg seeds	-	Seed dresser
Groundnut	Stem rot (*Sclerotiumrolfsii*), Collar rot	0.18+ 0.045	3.0 ml/10 kg seeds	-	Seed dresser

	(*Aspergillus niger*), Root rot (*Rhizoctoniabatat icola*)				
Propiconazole 13.9% + Difenoconazole 13.9% EC					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03%	(0.07-0.1%) 0.7-1.0ml/L	500	46
Propiconazole 10.7% w/w + Tricyclazole 34.2% w/w SE					
Paddy (Rice)	Sheath blight, Blast	262.5 to 393.75	500-700	500	46
Pyraclostrobin 133 g/l + Epoxiconazole 50g/l SE					
Groundnut	Tikka	114.37-137.25	625-700	500	21
Soybean	Cercospora leaf spot	137.25	750	500	27
Coffee	Rust	137.25	750	750	37
Wheat	Yellow rust	137.25	750	500	47
Cumin	Alternaria blight	137.25	750	500	22
Maize	Leaf blight	137.25	750	500	48
Banana	Sigatoka leaf spot	137.25	750	500	24
Pyraclostrobin 10% + Fipronil 5% SC					
Rice	Sheath Blight and Leaf Blight	50+100	1000	500	53
Chilli	Powdery Mildew, Anthracnose/Fruit rot	50+100	1000	500	7
Pyraclostrobin 3.5% + Thiram 15% + Clothianidin 22.5% FS					
Groundnut	Collar rot, Stem rot	2.45+10.50+15.75 gms	70 ml	-	Seed Treatment
Tebuconazole 6.7% + Captan 26.9% w/w SC					
Chilli	Powdery mildew	80+320	1000	500	5

	and Anthracnose				
Apple	Powdery mildew, Alternaria leaf spot/blight, Scab	124+496 0.02% + 0.08%	1550 0.25% or 2.5ml/l of water	10 L/tree	10
Sedaxane 12.61% w/w + Azoxystrobin 3.15% w/w + Thiamethoxam 22.06% w/w					
Rice	Sheath Blight Leaf Blast, Brown spot	1.35 (g/kg seed) (Sedaxane-0.45 Azoxystrobin - 0.11 Thiamethoxam - 0.79)	3.00 (ml/kg seed)	8-10 (For Pre-soaked seeds) (ml/kg seed) 15-20 (For dry seeds) (ml/kg seed)	Use as a seed treatment, hence waiting period is not applicable
Tebuconazole10%+Sulphur65%WG					
Chilli	Powdery mildew& Fruit rot	937.50(125+812.5)	1250	500	5
Soybean	Leaf spot & Pod blight	937.50(125+812.5)	1250	500	26
Tebuconazole 50% + Trifloxystrobin 25% WG					
Rice (Paddy)	Sheath blight, Leaf, Neck Blast, Glume discoloration (dirty panicle)	100 + 50	200	375-500	21
Tomato	Early blight	175+87.5	350	500	5
Grapes	Powdery mildew	87.5+43.75	175	1000	34
Chilli	Powdery mildew, Anthracnose, Alternaria leaf spot	125+62.5	250	500	5
Wheat	Yellow rust, powdery mildew	150+75	300	300-500	40
Mango	powdery mildew, Anthracnose	0.056% --0.075%	0.075%--0.1%(75—100g/100lit water)	Spray fluid as required depending on size of tree	15

Tebuconazole 15% + Zineb 57% WDG					
Paddy	Sheath blight, brown leaf spot, blast and dirty panicle	187.5 + 712.5	1250	500	21
Chilli	Powdery mildew, leaf spot, Choanephora blight and Anthracnose fruit rot	187.5 + 712.5	1250	500	28
Potato	Black scruf(*Rhizoctonias pp*)	10g/100 kg tuber	20/100 kg seed tuber	Sufficient to coat the seeds uniformly	NA Seed dresser
Chickpea	Wilt (*Fusariumoxysporum*) Root rot (*Rhizoctonia* spp.)	2.0	4.0	Sufficient to coat the seeds uniformly	NA Seed dresser
Thiophanate methyl 38% + Kasugamycin 2.21% SC					
Tomato	Powdery mildew & Bacterial leaf spot	402.1-502.6	1000- 1250	375-500	07
Tricyclazole 20.4% w/w + Azoxystrobin 6.8% w/w SC					
Rice (Paddy)	Blast, False smut, Sheath blight and Grain discoloration (Dirty Panicle)	300 (225+75)	1000	500	10
Tricyclazole 45% + Hexaconazole 10% WG					
Paddy (Rice)	Blast and Sheath blight	225+50	500	500	23
Tricyclazole 18.0% w/w +Tebuconazole 14.4% w/w SC					
Rice (Paddy)	Sheath blight, Blast, false smut and grain Discoloration	360 (200+160)	1000 ml/ha	---	44
Triticonazole 80 g/l + Pyraclostrobin 40 g/l (w/v) FS					
Wheat	Loose smut	0.12	1.0	Sufficient to coat the seeds uniformly	NA
Valifenalate 6% + Mancozeb 60% WG					

Tomato	Early blight & Late blight	120+ 1200 to 150 + 1500	2000 to 2500	500	5 days
Potato	Late blight	120+ 1200 to 150 + 1500	2000 to 2500	500	20 days
Grape	Downy mildew	120 + 1200	2000	750	14 days

* Warning: When used as a foliar spray on Red Delicious variety of apples. This product may cause resetting.

** In case of, fruit trees the values given pertain to the concentration of a.i. in spray solution and volume of spray solution required per tree.

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Major Uses of Pesticides

(Registered under the Insecticides Act, 1968)

(Based on certificate issued)

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

HERBICIDES

1. Herbicides products approved uses:

2. Herbicides combinations approved uses:

APPROVED USES OF REGISTERED HERBICIDES

HERBICIDES

Herbicide name & approved Crops	Weed species	Dosage /ha		Dilution In Water (Litres)	Waiting period / PHI between last application & harvest (days)
		a.i. (gm/ Kg)	Formulation in (gm/ ml /Kg/ ltr)		
Ametryne 80% WDG					
Sugarcane	*Dactyloctenium aegyptium, Digitaria sanguinalis, Cynodon dactylon, Ageratum conyzoides, Trianthema monogyna, Parthenium hysterophorus*	2.0 kg	2.5 kg	500	311
Anilofos 30% EC					
Transplanted paddy	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis, Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp. Marsilea quadrifoliata*	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Anilofos 18% EC					
Transplanted Paddy	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis, Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp.*	0.30-0.45 kg	1.66-2.5 kg	500-600	-
Anilophos 2 % G					

Transplanted rice	*Echinochloa crusgalli* *Echinochloa colonum* *Ischaemum rugosum* *Cyperus iria,* *Cyperus difformis,* *Fimbristylis sp.*	0.4-0.5 Kg	20-25 Kg	-	30
Atrazine 50% WP					
Maize	*Trianthama monogyna* *Digera arvensis,* *Echinochloa spp* *Eleusine Spp.* *Xantheium strumarium* *Brachiaria sp,* *Digitaria sp,* *Amaranthus viridis,* *Cleome viscose,* *Polygonum spp.*	0.5-1.0 kg	1-2 kg	500-700	-
Sugarcane	*Protulaca oleracea,* *Digitaria spp.,* *Boerhaavia diffusa,* *Euphorbia spp.,* *Tribulus terrestris*	0.50-2.00 kg	1.00- 4.00 kg	500-700	-
Azimsulfuron 50% DF					
Rice (Transplanted)	*Enchinochloa colonum,* *E. crusgalli,* *Cyperus spp.,* *Fimbristylis miliacea,* *Ludwigia parviflora,* *Eclipta alba,* *Bergia capensis,* *Marsilea quadrifoliata,* *Ammania baccifera,* *Sphenoclea zeylanica*	35	70	300	59
Rice (Direct Seeded)	*Enchinochloa colonum,* *E. crusgalli,* *Cyperus spp.,* *Fimbristylis miliacea,* *Ludwigia parviflora,* *Eclipta alba,* *Bergia capensis,* *Marsilea quadrifoliata,* *Ammania baccifera,* *Sphenoclea zeylanica*	35	70	300	59
Bensulfuron Methyl 60% DF					

Transplanted Rice. Pre-em (3 DAT)	*Marsilea quadrifoliata* *Eclipta alba,* *Ammania baccifera* *Ludwigia parviflora* *Sphenoclea Zeylenica ,* *Monochoria vaginalis ,* *Alternanthera sessillis* *Cyperus iria ,* *Cyperus difformis ,* *Fimbristylis miliacea,* *Scirpus royeli*	60 gm	100 gm	300 ltrs	88 days
Transplated Rice (post-em 20 DAT)	*Ammania baccifera* *Cyperus differmis* *Cyperus iria* *Eclipta alba* *Fimbristylis miliacca* *Ludwigia parviflora* *Marsilea quadrifoliata* *Monochoria vaginalis* *Alternanthera sessillis* *Scirpus royeli* *Sphenoclea zeylenica*	60gm	100 gm	300 ltrs.	71
Bentazone 480 g/l SL					
Soybean (Early POE: 2-3 leaf stage of weeds)	*Cyperus rotundus* *Achalipha indica* *Commelina bengalansis* *Echinocloa colanum* *Echinocloa crusgalli*	960	2000	500	62
Transplanted rice (Early POE: 2-3 leaf stage of weeds)	*Cyperus rotundus* *Cyperus diformis* *Ludwigia sps.* *Eclipla alba* *Echinocloa colanum* *Echinocloa crusgali*	960	2000	500	71
Bispyribac Sodium 10% SC					
Rice (Nursary) (10-12 DAS)	*Echinochloa crusgalli* *Echinochloa colonum*	20-25 gm	200 ml.	300 ltrs.	-
Rice (Transplanted) (10-14 DAP)	*Ischaemum rugosum* *Cyperus difformis,* *Cyperus iria*	20-25 gm	200-250 ml	300 ltrs.	78

Rice (Direct seeded) (10-15 DAS)	*Fimbristylis miliacea, Eclipta alba, Ludwigia parviflora, Monochoria vaginalis, Alternantheraphiloxeroides Sphenoclcea zeylenica*	20-25 gm	200-250 ml	300 ltrs.	78
Butachlor 50% EC					
Paddy (transplanted)	*Cyperus difformis Cyperus iria Echinochloa crusgalli, Echinochloa colonum, Eleusine indica, Eclipta alba, Fimbristylis miliacea, Ludwigia parviflora, Sphenoclea zeylanica*	1.25-2.00kg	2.5-4 ltrs	250-500	90-120
Butachlor 5% GR					
Transplanted Rice	*Echinochloa Crusagalli Digitaria sanguinalis Setaria spp., Commelina benghalensis, Fimbristylis milliacea, Cyperus iria, Eleusine indica, Panicum spp., Echinochloa Colonum, Eclipta alba, Cyperus Defformis, ludwigia paviflora.*	1.25 -1.87 Kg	25.00 – 37.50 Kg	-	90 – 105
Butachlor 50 % EW					
Transplanted Rice	*Echinochloa colonum Echinochloa crusgalli, Cyperus difformis Cyperus iria Eclipta alba, Fimbristylis miliacea Ludwigia parviflora, Sphenoclea zeylanica Monochoria vaginalis*	1.25-1.5 Kg	2.5-3.0	2.50-500	-
Carfentrazone ethyl 40% DF					

Wheat (25-35 DAS)	*Chenopodium album,* *Melilotus Indica,* *Melilotus alba,* *Medicago denticulata,* *Lathyrus aphaca,* *Analgalis arvensis,* *Vicia sativa,* *Circium arvense,* *Rumex sp,* *Malwa sp.*	20gm	50 gm.	400	80
Direct seeded Rice (10-15 DAS)	*Ludwigia parviflora* *Digera arevensis* *Phyllanthus niruri* *Spilanthes sp,* *Eclipta alba* *Cyperus sp.*	25	62.50	300	102
Chlorimuron Ethyl 25% WP + Surfactant					
Soybean (3-15DAS)	*Cyperus rotundus* *Commelina benghalensis* *Celosia argentea* *Digera arvensis* *Cucumis trigonus* *Cyprus iria,* *Parthenium hysterophorus,* *Acalypha indica,* *Phyllanthus niruri,* *Trianthema portulacashurm,* *Caesulia auxillaris*	9 gm	36 gm.	300 ltrs. + non ionic surfactant 0.2 % (Iso-octyl phenoxyl - poloxethanol 12.5 %)	45
Rice (transplanted) (5-10 DAT)	*Echinochloa crusgalli,* *Eclipta alba,* *Commelina benghalensis,* *Chenopodium album,* *Cyperus rotundus,* *Echinochloa colonum*	6gm	24 gm.	500-600	60
Cinmethylin 10% EC					
Transplanted Rice	*Cyperus iria* *Fimbristylis milacea* *Monochoria vaginalis* *Commelina Benghalensis* *Echinocloa crusgalli* *Marsilea minuta*	75-100 gm	0.75-1.0 ltrs.	500-700	110

Clodinafop- propargyl 15%WP					
Wheat	*Phalaris minor (Canary grass)*	60gm	400 gm.	375-400	110
Clodinafop- propargyl 15% w/w DF					
Wheat	*Phalaris minor (Canary grass)*	60 gm	400	500	70
Clodinafop-propargyl 12.5% EC					
Green gram	*Goosegrass (Eleusine indica), Large crab grass (Digitaria sanguinalis), Jungle rice (Echinochloa colona), Crow foot grass (Dactyloctenium aegyptium), Bermuda grass (Cynodon dactylon), Running grass (Brachiaria reptans)*	125	1000	500	75
Clethodim 25% EC					
Soybean	*Grasses* (*Echinocloa spp, Digitaria spp* and *Cynadon dactylon)*	120-180	500-700 ml	500	62
Clomazone 50%EC					
Soybean	*Digiteria sp. Echinochloa sp. Parthenium hysterophorus Commelina sp.*	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria, Ludwigia parviflora ,Eclipta alba*	0.4 – 0.5kg	0.8-1.0 ltr	500-750	90
Sugarcane	*Enchinochloa colonum Brachiaria repens Dactylotenium aegyptium Trianthema portulacastrum*	0.75-1.00 kg a.i./ha	1.5-2.0 ltr/ha	500 Lit	296
Cyhalofop Butyl 10% EC					

Rice (Direct seeded)	*(Echinochloa spp.) Barnyard grass*	75-80 gm	0.75-0.80ltr	500-600	90
2,4-D Dimethyl Amine salt 58% SL					
Maize	*Trianthema monogyna, Amaranthus sp., Tribulus terristeris, Boerhaavia diffusa, Euphorbia hirta, Portulaca oleracea, Cyperus sp.*	0.5 kg	0.86	400-500	50-60
Wheat	*Chenopodium album, Fumaria parviflora, Melillotus alba, Vicia sative, Asphodelus tenuifolius, Convolvulus arvensi,*	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	*Cyperus iria, Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri.*	1.8 kg	3.1	500-600	-
Potato	*Chenopodium album, Asphodelus tenuifolius, Anagalis arvensis, Convolvulus arvensis, Cyperus iria, Portulaca oleracea.*	500.30 kg	3.44	400	-
Sugarcane	*Cyperus iria Digitaria sp. Dactylactenium aegyptium Digera arvensis Portulaca oleracea Commelina benghalensis Convolvulus arvensis*	3.5	6.3	500	-
Aquatic Weeds	*Eichhornia crassipes.*	0.5-1.0 kg	0.86-1.72	600-700	15-20
Non crop area	*Parthenium hysterophorus,*	500.30 kg	4.56	300-400	15-20
	Cyperus rotundus	2.5 kg	4.30	300-400	-
2,4-D Sodium salt Technical (having 2,4-D acid 80 % w/w) (Earlier Registered as 80%WP)					

Citrus	*Euphorbia spp.* *Convolvulus arvensis* *Coronopus didymus* *Amaranthus viridis* *Oxalis corniculata* *Tribulus terrestris* *Fumaria parviflora* *Sonchus arvensis*	1.00-2.5 kg	1.25-3.2 kg	600	>6 months
Grapes	*Convolvulus spp.* *Tridax procumbens*	2.0	2.5	500	> 90 days
Maize	*Amaranthus viridis,* *Trianthema portulacastrum* *Phyllanthus niruri.,* *Euphobia geniculata,* *Amaranthus spinosus.* *Cleome chelidonii,* *Lagasca mollis*	500.30 Kg.	1.25	500	120(Pre-em) 90(post-em)
Sugarcane	*Boerhaavia diffusa* *Chenopodium album* *Tribulus terristris* *Portulaca oleracea* *Xanthium spp.* *Convolvulus arvensis* *Amaranthus spinosus* *Digera arvensis* *Celosia argentina.*	2.0-2.6	2.5-3.25	600-900	300
Wheat	*Leucas aspera,* *Chenopodium album,* *Vicia sativa,* *Argemone maxicana,* *Fimbristylis miliacea,* *Anagalis arvensis,* *Amaranthus spinosus.*	0.5-0.84 kg.	0.625-1.0	500	90
Aquatic Weeds	*Boerhaavia hispada,* *Eichhornia crassipes.*	1.5 kg	1.85.	600-1000	-
Non crop land	*Parthenium hysterophorus,* *Cyperus rotundus,* *Solanum elaeagnifolium.*	2.5-6.0 kg. 4-8 Kg 1.8 kg	3.2-7.5 5-10 2.25	600-1000 500-600 500-600	- - -
2,4-D Ethyl Ester 38 % EC (having 2,4-D acid 34 % w/w)					

Maize	*Trianthema monogyna, Amaranthus sp., Portulaca oleracea., Tribulus terristris, Boerhaavia diffusa, Euphorbia hirta, Cyperus sp.*	0.9 kg	2.65 ltr	400-450	50-60
Sorghum	*Cyperus iria, Striga sp. Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri*	500.30 kg	2.94	425	-
Transplanted Paddy	*Echinochloa colonum, Echinochloa crusgalli*	0.85 kg	2.5	400	-
Wheat	*Chenopodium album, Asphodelus tenuifolius, Fumaria parviflora, Melilotus alba, Spergula arvensis*	0.45-0.75 kg	1.32-2.2	450-500	-
Sugarcane	*Cyperus iria, Digitaria sp., Dactyloctenium aegyptium, Digera arevensis, Portuluca oleeracea, Commelina benghalensis, amaranthus sp., Convolvulus arvensis*	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	*Eichhornia crassipes*	2.5 kg	7.5	700-1000	-
2,4-D Ethyl Ester 20 % WP					
Maize	*Trianthema sp. Euphorbia hirta Cyperus sp.*	0.9	5.0	625	-
Sorghum	*Convolvullas arvensis*				
Wheat	*Chenopodium slbum Malilots alba*				
Paddy	*Echinochloa colonum Echinochloa crusgalli*				
2,4-D Ethyl Ester 4.5 % GR (having 2,4-D acid 4 % w/w)					

Transplanted Rice	*Echinochloa Coloum* *E. Crusgalli* *Panium ischaemum* *Cynodon dactylon (germinating)* *Cyperus rotundus (germinating)* *Cyperus iria* *C. difformis* *Ludwigia parviflora* *Monochoria Vaginalis* *Marsilea quadrifoliata* *Cyanotis cucutata* *Eclipta alba* *Ammania baccifera*	500.30 kg	25 kg	-	-
Diclofop Methyl 28% EC					
Wheat	*Avena fatua,* *Phalaris minor*	0.7-1.0 kg	2.5-3.5 ltr	500	90
Diuron 80% WP					
Cotton	*Amaranthus spp,* *Chenopodium album,* *Convolvulas arvensis* *Setaria glauca,* *Digitaria sp,* *Portulaca oleracea,* *Xanthium strumerium,* *Anagallis arvensis,* *Asphodelus temifolius,* *Euphorbia sp,* *Visia sativa* *Paspalum conjugatum,*	0.75-1.5 kg	1-2.2Kg.	625	-
Banana	*Cyperus iria,* *Commelina benghalensis,* *Digitaria sp.,* *Amaranthus spp,* *Dactyloctenium,* *Chloris barbata,* *Eragrostis zeylenica*	1.60 kg	2 kg.	625	-
Rubber	*Grasses & Non grasses*	1.6-3.2 kg	2-4kg.	625	-
Maize	*Cyperus iria,* *Echinochloa spp,* *Digitaria spp,* *Chenopodium album,* *Eleusine sp,* *Amaranthus sp,*	0.8 kg	500.30 kg.	600	-

	Phyllanthus niruri				
Citrus (sweet orange)	*Cyperus iria, Tribulus Terristris, Digera arvensis, Commelina nudiflora, Cocumis trigonus.*	2-4.0kg	2.5-5.0kg	600	-
Sugarcane	*Cyperus iria, Portulaca racea, Echinochloa rusgalli, Cynotis spp, Amaranthus spp, Convonvulus Spp., Digitaria spp.*	1.6-3.2kg	2.0-4.0 kg.	600	-
Grapes	*Cleome viscose, Chenopodium album, Cyperus iria, Euphorbia hirta, Alternanthera echinata, Amaranthus spp, Argemone maxicana, Ipomoea spp, Xanthium strumerium, Fumeria parviflora, Asphodelus tenuifolius, Medicago denticulata, Eleusine aegyptia.*	1.6kg	2.0 kg.	625	-
Diclosulam 84% WDG					
Soybean	*Cyperus spp, Commilena benghalensis, Euphorbia geniculata, Digera arvensis, Acylipha spp, Echinochlo colona*	22-26gm	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	*Amaranlhus viridis, Parthenium hysterophorus, Trianthema sp., Euphorbia enticulat, Cyperus spp., Echinochloa colona*	22-26	26.2-30.9	-	77
Ethoxysulfuron 15% WDG					

Transplanted Rice.	*Fimbristylis miliacea Cyperus iria, Cyperus difformis, Scirpus sp., Eclypta alba, Marsilea quadrifoliata, Ammania baccifera, Monochoria vaginallis*	12.5-15gm	83.3-100gm	500	110
Fenoxaprop-p-ethyl 9% w/w DF					
Transplanted Paddy	*Echinocloa crusgalli (barnyard grass), Echinocloa colona (jungle rice)*	56.25	625	500	65
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					
Soybean	*Echinochloa colonum, Echinochloa crusgalli, Digitaria sp, Eleusine indica, Setaria sp, Brachiaria sp.*	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (enticulate)	*Echinochloa crusgalli, Echinochloa colona*	56.25 gm	625 ml. (10-15 DAT)	300-375	70
Blackgram	*Echinochloa crusgalli, Echinochloa colona Digitaria sp. Dactylocteneum Aegyptium*	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43
Cotton	*Echinochloa sp. Eluesine indica Dactylocteneum Aegyptium Eragrostit minor*	67.5 g	750ml. (20 -25 DAS)	375-500	87
Onion	*Echinochloa colonum Dactyloctenium aegyptium*	78.75	875	375	10
Groundnut	*Echinochloa sp.*	78.75	875	375	89
Fenoxaprop-p-ethyl 10% EC					

Wheat	*Phalaris minor*	100-120gm	1.0-1.20 kg	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	*Echinochloa sp.*	56.6-60.38g	812.5-875	375-500	61
Florpyrauxifen-benzyl 2.7% w/w EC					
Transplanted Rice	*Echinochloa crusgalli,* *Cyperus difformis,* *Cyperus iria,* *Ammania baccifera*	25-31.25	1000-1250	300-500	73
Direct seeded rice	*Echinochloa crusgalli,* *Echinochloa colona,* *Cyperus difformis* *Cyperus iria,* *Eclipta alba*	31.25-37.5	1250-1500	300-500	85
Fluazifop-p-butyl 13.4% EC					
Soybean	*Echinochloa colonum,* *Echinolchloa crusgalli,* *Eleusine indica,* *Cyanodon dactylon,* *Dactyloctenium aegyptium,* *Digitaria sp.,* *Setaria sp.*	125-250 g	1000-2000	500	90
Cotton	*Echinochloa colonum,* *Digitaria longiflora,* *Eleusine indica,* *Dactyloctenium aegyptium,* *Bracharia reptans,* *Dinebra arabica*				
Groundnut	*Echinochloa colonum,* *Digitaria longiflora,* *Eleusine indica,* *Dactyloctenium aegyptium,* *Bracharia reptans,* *Chloris barbata,* *Aeluropus villosus,* *Indigofera glandulosa*				
Flucetosulfuron 10% WG					

Rice (Transplanted)	*Echinochloa colonum* *Echinolchloa crusgalli* *Digitaria sanguinalis* *Paspalum discichum* *Paspalum scrobitulatum* *Leersia hexandra* *Panicum repens* *Setaria glauca* *Dinebra retroflexa* *Cyprus difformis* *Cyprus iria* *Fimbristylis miliaceae* *Alternanthera philoxeroides* *Alternanthera enticul* *Marsilea quadrifolia* *Ammania baccifera* *Eclipta alba* *Eclipta prostrate* *Monochoria vaginalis* *Lindernia ciliate* *Ludwigia parviflora* *Sphenoclea zeylanica* *Commelina diffusa* *Cyanotis axillaris*	25	250	500	90
Fluchloralin 45% EC					
Cotton	*Acanthospermum hispidum,* *Cleome enticu,* *Datura sp.* *Trianthema monogyna* *Tridax procumbens,* *Cynodon dactylon (germinating)* *Amaranthus spp.,* *Portulaca spp,* *Achyranthus aspera,* *Euphorbia hirta,* *Cenchrus cathorticus,* *Digitaria sanguinalis,* *Eleusine sp,* *Panicum sp,* *Lagasca mollis,* *Gynandropsis pentaphylla,* *Achalypha indica*	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180

Soybean	*Eragrostis sp.,* *Boerhaavia hispada,* *Cyperus compestris,*	1.0-1.5kg.	2.22-3.33	500-800	120-150
Flufenacet 60% DF					
Paddy (Transplanted)	*Echinochloa crusgalli* *Echinochloa colonum* *Cyperus iria*	120 gm	200 gm	500	90-110
Flumioxazin 50% SC					
Soybean	*Commelina benghalensis,* *Digera arvensis,* *Euphorbia spp.,* *Phyllannthus niruri,* *Echinochloa crusgalli*	125 g.a.i/ha	250ml/ha	500	110
Wheat	*Runnex spp.,* *Medicago denticulate,* *Coronopus didymus,* *Chenopodium album,* *Phalaris minor,* *Avena fatua*	125 g.a.i/ha	250 ml/ha	500	137
Fluroxypyr meptyl 48% w/v (45.5% w/w) EC					
Onion	*Amaranthus viridis* *Anagalis arvensis* *Chenopodium album* *Euphorbia spp.* *Parthenium hysterophorus* *Physalis minima* *Trianthema spp.*	324 to 360	675 to 750 ml/ha		71 days
Fluthiacet Methyl 10.3% EC					
Soybean	*Commelina sp,* *Digeru arvensis,* *Acalypha indica,* *Amaranlhus viridis.*	13.6	125	500	73
Glufosinate Ammonium 13.5% SL (15% w/v)					
Tea	*Panicum repens,* *Borreria hispida,* *Imperata cylindrical,* *Digitaria sanguinalis,* *Commelina benghalensis,* *Ageratum conyzoides,* *Eleusine indica,* *Paspalum conjugatum*	375-500 gm	2.5-3.3	375-500	15

Cotton	*Echinochloa sp.* *Cynodon dactylon* *Cyperus rotundus* *Digitaria marginata* *Dactylocteneum aegyptium*	375-450 gm	2.5-3.0	500	96
Glyphosate 20.2% SL IPA salt					
Non Crop area	*Phyllanthus niruri,* *Ageratum conyzoides,* *Parthenium hysterophorus,* *Sorghum halepense,* *Amaranthus spinosus,* *Alternanthera enticul,* *Cynodon dactylon,* *Cyperus rotundus,* *Echinochloa colonum,* *Trianthema portalucastrum*	0.82-1.23 kg	4.1-6.15	400-500	N/A
Glyphosate Ammonium salt 20 % SL					
Non Crop area	*Cynodon dactylon* *Commelina benghalensis* *Panicum spp.* *Dactyloctenium aegyptium* *Eragrostis major* *Poa anua* *Cyperus rotundus* *Parthenium hysterophorous* *Acalypha indica* *Digeria arvensis* *Phyllanthus niruri* *Euphorbia enticulat* *Corchorus actangularis* *Saccharum spontenium* *Eleusine indica* *Imperata cylindrical* *Ageratum conzoides*	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-
Glyphosate 41% SL IPA Salt					

Tea	*Arundinella bengalensis* *Axonopus compressus* *Cynodon dactylon* *Imperata cylindrical* *Kalm grass* *Paspalum scrobiculatum* *Polygonum perfoliatum*	0.820-1.230kg.	2.0-3.0	450	21
Non-cropped area	Soghum helepense and other dicot & monocot weeds in general	0.820-1.230kg.	2.0-3.0	500	-
Glyphosate 54% SL (IPA Salt)					
Non Crop Area	*Ageratum conyzoides* *Alternenthera enticul* *Commilina spp* *Cyperus spp* *Echinochloa sp.* *Eclipta alba* *Iscaemum rogosum* *Setaria spp*	1.8 kg	3.33 ltrs.	400-500	-
Glyphosate Ammonium Salt 5% SL					
Tea	*Ageratum conyzoides* *Biden pilosa* *Boreria latifolia* *Cynodon dactylon* *Cyperus rotundus* *Digitaria sanguinalis* *Euphorbia spp.* *Imperata cylendrica* *Paspalum conjugatum*	1.5 kg.	30 ltrs.	500	7 days
Non Crop area	*Cynodon dactylon* *Cyprus rotundus* *Digera arvensis* *Digitaria sanguinalis* *Eragrostis minor* *Euphorbia spp.* *Parthenium hysterophorus* *Tribulus terrestris* *Xantrhium stremerium*	2 kg.	40 ltrs.	500	-
Glyphosate 71% SG (Ammonium Salt)					

Tea & Non Crop area	*Acalypha indica* *Ageratum conyzoides* *Cychorium intybus Digera arvensis* *Cynondon dactylon* *Cyperus rotunedus* *Digitaria sanguinalis* *Eragrostis spp.* *Ipomea digitarea* *Paspalum conjugatum* *Sida aculata*	2.13 kg	3.0 kg.	500	7
Glyphosate Potassium Salt 41.60 % w/w SL (Equivalent to 54% w/v)					
Non cropped area	*Digitaria sanguinalis (Crabgass),* *Cytodon dactylon (Bermuda grass),* *Digera arvensis,* *Sorghum haiepense (Johnson gass),* *Amaranthus spinosus (Pigweed)*	2160-2430	4000-4500	500	-
Halosulfuron Methyl 75% WG					
Sugarcane	*Cyperus rotundus*	60-67.5	80-90	375	294
Maize	*Cyperus rotundus* *Cyperus iria*	67.5	90	375	45
Bottle gourd	*Cyperus rotundus* *Cyperus iria*	67.5	90	375	46
Haloxyfop R Methyl 10.5% w/w EC					
Soybean	*Brachiaria sp.* *Digitaria sanguinalis* *Dinebra enticu* *Echinochloa sp.* *Eleusine indica* *Eragrostis sp.* *Pnicum isochmi*	108-135	1000-1250	500	60
Imazethapyr 10% SL					

Soybean	*Cyperus difformis* *Echinochloa colonum* *E. crusgalli* *Euphorbia hirta* *Croton sperrsifeorus,* *Digera arvensis,* *Commelina* *Benghalensis*	100 gm	1.0 Ltr.	500-600	75
Groundnut	*Cyperus difformis* *Commelina* *benghalensis,* *Trianthema* *portulacasturm,* *Eragrostis pilosa*	100-150 gm	1.0-1.5 ltrs.	500-700	90
Imazethapyr 10% SL + Surfactant					
Soybean (1-2 Leaf stage of weeds or 7-14 days after sowing)	*Echinochloa colonum* *Brachiaria mutica,* *Euphorbia hirta* *Commelina benghalensis* *Dinebra enticu,* *Digitaria spp.,*	75-100gm+ MSO adjuvant @ 2ml/l of water	750-1000 ml+ MSO adjuvant @ 2ml/l of water	375	72
Groundnut (1-2 Leaf stage of weeds or 7-14 days after sowing)	*Echinochloa colonum* *Euphorbia hirta* *Commelina benghalensis* *Digera arvensis,* *Amaranthus viridis,* *Physalis minima.*	100-150 gm+ MSO adjuvant @ 2ml/l of water	1000-1500 ml+ MSO adjuvant @ 2ml/l of water	375	102
Black gram	*Brachiaria eruciformis* *Amaranthus viridis* *Euphorbia hirta* *Commelina benghalensis*	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	56
Green gram	*Amaranthus viridis* *Trianthema portulacastrum* *Euphorbia hirta*	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	46
Red gram	*Digitaria sanguinalis* *Dinemra relroflexa*	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	125

Imazethapyr 70% WG + Surfactant					
Soybean (2-3 leaf stage of weeds)	*Cyperus routandus* *Echinochloa spp.* *Dinebra enticu* *Digera spp.,* *Brachiaria mutica,* *Commelina benghalensis* *Commelina communis* *Euphorbia enticulat* *Cyanotis axiallaris*	70 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre + Ammonium Sulphate @ 2 g/lit of Water	100 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre+ Ammonium Sulphate @ 2 g/lit of Water	500	56
Isoproturon 50% WP					
Wheat	*Phalaris minor* *Avena fatua* *Poa annua*	1.0kg	2.0	750	-
Isoproturon 75% WP					
Wheat	*Phalaris minor* *Avena fatua* *Poa annua*	1.0kg	1.33 kg.	750	60 days
MCPA, Amine salt 40% WSC					
Transplanted Rice	*Cyperus rotundus* *Impmoea reptans* *Ammania baccifera* *Lippia nodiflora* *Alternanthera sp.* *Ludwigia parviflora* *Marsilea quadrifoliata*	0.8-2.0 kg	2-5	400-600	
Wheat	*Chenopodium album,* *Asphodelus tenuifolius* *Fumaria parviflora* *Carthamus oxyacantha* *Launea sp.,* *Pluchia lanceolata,* *Melilotus indica,* *Vicia enticu,* *Lathyrus aphaca,* *Medicago enticulate,* *M. lupulina,* *Spergula arvensis,* *Argemone maxicana,* *Phyllathus niruri.*	1.0 kg	2.5	300-600	

Metamifop 10% EC					
Direct seeded Rice	*Barnyard grass (Echinocloa spp), Sacchiolepis Dactyloctenium, Digiteria, panicum*	100 g.a.i	1000 ml	350	87
Metamitron 70% SC					
Sugarbeet	**<u>Sedges & Grasses</u>** *Cynodon dactylon Cyperus rotundus Dactyloctenium aegyptium* **<u>Broad Leaves</u>** *Convolvulus arvensis Chenopodium album Parthenium hysterophorus Digera arvensis*	a) 2-3 leaf stage of weed – 0.7 kg a.i/ha, b) 4-6 leaf stage of weed – 1.4 kg a.i/ha, c) 8-10 leaf stage of weed – 1.4 kg a.i/ha	a)2-3 leaf stage of weed – 1kg/ha, b) 4-6 leaf stage of weed – 2 kg/ha, c) 8-10 leaf stage of weed – 2 kg/ha	500	90
Methabenzthiazuron 70% WP					
Wheat (PE –2DAS)	*Phalaris minor, Avena fatua, Avena ludoviciana, Poa annua,*	1.05-1.4kg	1.5-2.0 kg.	700-1000	100
Wheat (Post –EM 30 DAS)	*Polypogom monspliensis, Anagallis arvensis, Chenopodium album*	1.05-1.75kg	2.0-2.5 kg.	700-1000	100
Wheat (Early POE.16-18 DAS)	*Phalaris minor, Avena fatua, Avena ludoviciana, Chenopodium album*	0.7-0.87 kg	1.0-1.25 kg.	700-1000	100
Metolachlor 50% EC					
Soybean	*Echinochloa colonum Eleusine indica Digitaria sp. Dactyloctonium aegyptium Panicum sp. Cyperus sp. Amaranthus viridis*	1.0 kg	2.0 ltrs.	600-750	-

Metribuzin 70% WP					
Soybean	*Digitaria spp.* *Cyperus esculentus* *Cyperus campestiris* *Borreria spp.* *Eragrostis spp.*	0.35-0.525 kg	0.5-0.75kg.	750-1000	30
Wheat	*Phalaris minor* *Chenopodium album* *Melilotus spp.*	Medium soil-0.175kg Heavy soil - 0.21kg	0.25 kg 0.30 kg.	500-750	120
Sugarcane	*Cyperus rotundus, Cynodon dactylon, Astodelus fistulosis, Chenopodium album, Convolvulus arvensis, Portulaca oleracea, Anabalis servensis, C.intybus, Echinochloa colonum, Dactyloctenium aegyptium, Parthenium hysterophorus, Commelina spp.*	Post-emergence, 25-30 DAP Or Pre-emergence At first workable spray condition or 3-5 DAP	1.05-1.4 1.05-2	1.5-2 1.5-3	60
Potato	*Chenopodium album, Trianthema monogyna, Parthenium hysterophorus, Funaria parviflora, Melilotus spp., Phalaris minor*	Pre-emergence 3-4 DAP or Post-emergence between emergence and time when the first potato plants have reached height of 5 cms.	0.525	0.750	30
Tomato	*Trianthema portacastrum, Dactylectonium aegypticum, Gynandropsis pentaphylla, Amaranthus viridis, Portulaca oleveae, Digera arvensis, Euphorbia frustrate,*	Pre-planting a week before transplanting Or	0.525	0.760	30

	Echinochloa colonum, conyzoideae, Eleusine indica, S.glauca, Comelina bengalensis	Port planting 15 DAT			
Metribuzin 70% WG					
Sugarcane	*Cyperus rotundus, Cynodon dactylon, Chenopodium album, Echinochloa crusgalli, Parthenium hysterophorus*	1.4-2.0	2.0-3.0	500-600	309
Metsulfuron Methyl 20% WP					
Wheat	*Chenopodium album, Melilotus indica, Lathyrus aphaca, Anagallis arvensis, Vicia sativa, Cirsium arvense.*	4 gm	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxyl-Poloxethanol 12.5%)@ 500 ml/ha	80
Rice (transplanted)	*Cyperus rotundus, Spheanochlea spp., Fimbristylis sp. Ludwigia parviflora Marsilea quadrifoliata*	4 gm.	20 gm.	500-600	60
Sugarcane	*Cyperus esculentus, Amaranthus viridis, Portulaca oleracea, Parthenium hysterophorus, Trianthema sp., Cleome viscosa, Solanum sp., Commelina benghalensis, Euphorbia sp., Digeria sp.*	6	30	500-600 (Add non - ionic surfactant Iso-octyl-phenoxyl - poloxethanol 12.5% @ 2ml per liter of spray volume (0.2%)	346
Metsulfuron Methyl 20% WG					

Wheat	*Chenopodium album* *Melilotus indioca* *Melilotus alba* *Lathyrus aphaca* *Anagalis arvensis* *Vicia sativa* *Rumex denticulate* *Convolvulus arvensis* *Meedicago denticulate*	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxyl - Poloxethanol 12.5%) @0.2%	76
Transplanted Rice	*Monochoria vaginalis* *Ludwigia parviflora* *Ludwigia adscendens* *Marselea quadrifoliata* *Eclipta alba* *Oxalis minima* *Dapatorium juncecum* *Commelina benghalensis* *Ammania baccifera* *Sphenoclea zeylanica* *Caesulia axillaries.*	4 gm	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxyl - Poloxethanol 12.5%) @0.2%	71
Sugarcane	*Amaranthus viridis* *Ipomeas pp.* *Euphorbia hirta* *Phyllanthus niruri* *Cleome viscose* *Commelina benghalensis* *Trianthema sp.* *Portulaca oleraceae*	6	30g + Non-ionic surfactant @ 2 ml/l of water	500	346
Orthosulfamuron 50% WG					
Transplanted Rice (Paddy)	*Echinocloa spp.* (Barnyard grass) *Cyperus spp.* (Nut grass) *Scirpus spp*. *Ludwigia parviflora* (water crest) *Fimbristylis spp.* (Hoora grass) *Rotala spp.*	60-75	150 3 DAT	500	65

Oxadiargyl 80% WP					
Transplanted Rice	*Echinochloa crusgalli E. Colonum, Cyperus iria, C. difformis, Eclipta alba, Ludwigia quadrifoliata*	100	125	500	97
Sunflower	*Echinochloa colonum Dactyloctenium aegyptium*	240	300	500	81
Oxadiargyl 6% EC					
Transplanted Rice	*Echinochloa crusgalli Echinochloa colonum,*	100gm	1.66 ltrs	500	97
Cumin	*Cyperus iria, cyperus difformis, Eclipta alba Ludwigia quadrifoliata Chenopodium album Remex sp., Melilotus indica, Asphodelus tenuifolius*	60-75gm	1.0-1.25 ltrs.	500	87
Mustard	*Chenopodium album, Melilotus sp*	90	1500	500	35
Oxadiazon 25% EC					
Transplanted Rice	*Echinochloa crusgalli E. colonum Cyperus iria C. difformis Marsilea quadrifoliata, Eclipta alba, Ludwigia sp.*	0.5kg	2.0 ltrs.	500	-
Oxyfluorfen 0.35% GR					
Rice (Direct sown puddled or Transplanted)	*Echinochloa sp. Cyperus difformis Cyperus iria Eclipta alba Ludwigia parviflora Fimbristlylis miliacia, Marsilea spp*	100-150 gm	30-40 kg.	-	-
Oxyfluorfen 20% DF					

Onion	*Echinochloa spp.,* *Cyperus spp.,* *Chenopodium album* *Amaranthus viridis*	150-200 gm	750-1000 gm	500	91
Oxyfluorfen 23.5% EC					
Rice (Direct sown as pre-emergence)	*Echinochloa sp.* *Cyperus iria,* *Eclipta alba,*	150-240 gm	650-1000	500	-
Tea	*Digiteria,* *Imperata,* *Paspalum,* *Borreria hispida,*	150-250 gm	650-1000	500-750	15 days
Onion	*Chenopodium album,* *Amaranthus viridis,*	100-200 gm	425-850	500-750	-
Potato	*Chenopodium,* *Coronpus, Trianthema,* *Cyperus, Heliotropium*	100-200 gm	425-850	500-750	-
Groundnut	*Echinochloa colonum* *Digitaria arginata*	100-200 gm	425-850	500-750	-
Mentha	*Echinochloa colona,* *Cyperus spp.,* *Solanum nigrum,* *Amaranthus viridis,* *Sphenochlea sp.,* *Anagallis arvensis,* *Chenopodium album,* *Commelina benghalensis,* *Digitaria sanguinalis,* *Eclipta alba,* *Euphobia spp.,* *Ludwigia parviflora,* *Portulaca spp.*	206	904.3	500	10
Pendimethalin 30% EC					
Wheat	*Phalaris minor,* *Chenopodium album,* *Melilotus alba,* *Portulaca oleracea,* *Anagallis arvensis,* *Fumaria parviflora,* *Poa annua*	Light soil-1.0 kg, Medium soil-1.25 kg, Heavy soil-1.5 kg	3.3 ltr. 4.2 5.0	500-700 500-700 500-700	-

Rice (Transplanted &direct sown Upland)	*Echinochloa colona, E. crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis*	Light to Heavy soil 1-1.5kg	3.3 –5 Ltrs.	500-700	
Cotton	*Echinochloa spp. Euphorbia hirta Amarnanthus viridisPortulaca oleraceaTrianthema spp. Eleusine indica*	0.75-1.25kg	2.5-4.165 ltrs	500-700	150
Soybean	*Echinochloa spp., Euphorbia spp., Amarnanthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica*	0.75-1.0kg	2.5-3.3 ltrs.	500-700	110
Pigeon pea	*Digitaria sanguinalis Digera arvensis Amaranthus sp. Euphorbia hirta Trianthema sp. Cyperus sp. Eragrostis sp.*	0.7 – 1.00	2.5 – 3.33	500	133
Pendimethalin 5 % G					
Rice (Transplanted & Direct sown puddled)	*Echinochloa colona, E. crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis*	1.0-1.5 kg	20-30 kg	-	-
Pendimethalin 38.7% CS					

Soybean	*Echinochloa colonum* *Dinebra arabuica* *Digitaria sanguinalis* *Bracharia mutica* *Dactyloctinum aegyptium* *Portulaca oleracea* *Amaranthus viridis* *Euphorbia geniculata* *Cleome viscose*	580.5-677.25gm	1500-1750	500	40
Cotton	*Digitaria sanguinalis,* *Echinochloa colonum,* *Dinebra arabiaca,* *Brachiaria mutica,* *Eragratis minor,* *Portulaca oleracea,* *Commelina communis,* *Amaranthus spp.,* *Parthenium hysterophorus*	580.5-677.25gm	1500-1750	500	101
Chilli	*Echinochloa colonum,* *Dinebra arabiaca,* *Brachiaria mutica,* *Amaranthus spp.,* *Portulaca oleracea,* *Commelina spp.,* *Parthenium hysterophorus,* *Digera arvensi,* *Physelis minima*	580.5-677.25gm	1500-1750	500	98
Onion	*Dactyloctenium aegyptium* *Digitaria sanguinalis,* *Echinochloa sp.,* *Dinebra arabic,* *Portulaca oleracea,* *Euphorbea geneculata,* *Commelina sp.,* *Digera arvensis,* *Amaranthus viridis,* *Trianthema portulacastrum*	580.50-677.25gm	1500-1750	500	104
Groundnut	*Echinochloa colonum,* *Digitaria marginata,* *Commelina bengalensis,* *Portulaca oleracea*	580.5-677.25gm	1500-1750	375	103
Mustard	*Chenopodium album,* *Digera arvensis,* *Amaranthus species*	338.625 gm	875	375-400	111
Cumin	*Portulaca oleracea,* *Digitaria spp,* *Digera arvensis*	580.5-677.25 gm	1500- 1750	375-500	91

Pinoxaden 5.1% EC						
Wheat		*Phalaris minor (*Canary grass) *Avena ludoviciana (*Wild oat)	40-45 g	800-900 ml 30-35 DAS	225-300	90
Penoxsulam 21.7 % SC						
Rice (Transplanted)		*Ammania bacifera,* *Cyperus difformis,* *Echinochloa colonum,* *Echinochloa crusgalli,* *Cyperus iria,* *Fimbristylis miliacea,* *Ludwigia spp.* *Monochoria spp.* *Sphenecelea zeylanica,*	22.5 to 25 (pre-emergence 0-5 DAT) 20 to 22.5 (post-emergence 10-12 DAT)	93.7 to 104.2 83.3 to 93.7		60
Penoxsulam 2.67% OD						
Rice (Transplanted Rice)	Grasses	*Echinochloa Colona* *Echinochloa Crusagalli*	22.5-25	900-1000 ml/ha	300-500	60
	Sedges	*Cyperus difformis*				
	Broad Leaved Weeds	*Caesulia axillaris*				
Pretilachlor 37% EW						
Transplanted Rice		*Echinochloa crusgalli* *Echinochloa colonum* *Cyperus difformis* *Cyperus iria* *Digitaria sanguinalis* *Fimbristylis miliacae* *Eclipta alba* *Ludwigia parviflora* *Monochoria vaginalis*	0.60-0.75 kg	1.5-1.875 ltrs.	500	90
Pretilachlor 30.7% EC						
(Direct seeded rice under puddled condition)		*Echinochloa crusgalli* *Echinochloa colonum* *Cyperus difformis* *Cyperus iria*	0.45-0.60kg.	1.5-2.0 ltr.	500	110

Pretilachlor 50% EC					
Transplanted Rice	*Echinochloa crusgalli* *Echiniochloa colonum* *Cyperus difformis* *Cyperus iria* *Fimbristylis miliacae* *Eclipta alba* *Ludwigia parviflora* *Monochoria vaginalis* *Leptochloa chinensis* *Panicum repens*	0.50-0.75 kg.	1.0-1.5 ltrs.	500-700	75-90
Propaquizafop 10% EC					
Soybean	*Echinochloa colonum,* *Echinochola crusgalli,* *Digiteria sanguinalis,* *Dactyloctenium eigyptium,* *Eleusine indica*	50-75 g	500-750	500-750	21
Blackgram	*Echinochloa colonum,* *Echinochola crusgalli,* *Digiteria sanguinalis,* *Dactyloctenium eigyptium,* *Eleusine indica*	75-100 g	750-1000	500-750	21
Onion	*Echinochloa colonum,* *Digiteria sanguinalis,* *Dactyloctenium aegyptium,* *Phalaris minor*	62.5	625	500	7
Jute	*Digiteria sanguinalis,* *Echinochloa colonum,* *Eleusine indica*	62.5	625	500	87
Cotton	*Echinochloa colonum,* *Digiteria sanguinalis,* *Dactyloctenium aegyptium,* *Cynodon dactylon*	62.5	625	500	115
Groundnut	*Echinochloa colonum,* *Digiteria sanguinalis,* *Dactyloctenium aegyptium,* *Eleusine indica*	62.5	625	500	97
Propanil 35% EC					

Rice	*Barnyard grass (Echinochloa crusgalli, E.colonum), Nut grass (Cyperus difformis, C.iria)*	2.0-3.0 Early post-emergence to weeds (12-15 DAS), Blanket spray	5.8-8.5	400-600	90
Propanil 80% w/w DF					
Direct Seeded Rice	*Echinochloa colonum (*wild rice). *Echinochloa crusgalli (*barnyard grass*)* *Panicum repens (*bullet grass) *Brachiaria mutica (*para grass) *Digitaria sanguinalis (*hairy crabgrass) *Leptochloa chinensis (*red sprangletop) *Eclipta alba (*False daisy) *Commelina spp.,* *Ludwigia parviflora (*water crest) *Cyperus spp.*	2000-3000	2500-3750	375	84
Paraquat dichloride 24% SL					
Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Imperata* *Setaria sp.,* *Commelina benghalensis,* *Boerraria hispida,* *Paspalum conjugatum,*	0.2-1.0 kg	0.8-4.25 ltr (For season long weed control, use 2.5-5.0 ltr for initial application. For subsequent repeat spot application use 1 litre)	200-400	Not Necessary (For season-long weed control, muse 2.5 to 5 lit for initial application. For subsequent repeat spot application use 1 lite)
Potato (Post-emergence overall / inter-row application at 5-10 % emergence)	*Chenopodium sp.* *Angallis arvensis* *Trianthema monogyna* *Cyperus rotundus* *Fumeria parviflora*	0.5 kg	2.0 ltr.	500	100

Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Digera arvensis, Cyperus iria, Trianthema monogyna, Corchorus spp., Leucas aspera, Euphorbia spp.*	0.3-0.5 kg	1.25-2.0	500	150-180
Rubber (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Digitaria sp., Eragrostis sp., Fimbristylis sp.*	0.3-0.6 kg	1.5-2.5	600	N.A.
Coffee	*Digitaria marginata, paspalum Conjugatum, Ageratum, Conyzides, Borreria hispida, Euphorbia hirta, Commelina benghalensis, Eleusine indica*	250	1.0	400	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	*Echinochloa crusgalli, Cyperus iria, Ageratum conyzides, Commelina benghalensis, Marsilea quadriofoliata, Brachiaria mutica*	0.3-0.8 kg	1.25-3.5	500	N.A.
Wheat [pre-plant (minimum tillage) before sowing]	*Grassy & Broad leaf weeds*	1.0 kg	4.25 ltrs	500	120-150
Maize [pre-plant (minimum tillage) before sowing]	*Cyperus rotundus, Commelina benghalensis, Trianthema monogyna, Amaranthus sp., Echinochloa sp*	0.2-0.5 kg	0.8-2.0 ltrs	500	90-120
Maize (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Cyperus iria, Cyperus rotundus, Commelina benghalensis Amaranthus sp. Echinochloa sp Trianthema monogyna*	0.2-0.5 kg	0.8-2.0 ltrs	500	90-120
Grapes (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Cyperus rotundus Cynodon dactylon Convolvulus sp. Portulaca sp. Tridax sp.*	0.5 kg.	2.0ltrs.	500	90

Apple (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Rosa moschata* *Rosa eglantaria* *Rubus ellipticus*	0.75 kg	3.25 ltrs	700-1000	N.A.
Aquatic weed control Water ways Canals, Ponds Etc	 *Eichhornia crassipes* *Hydrilla* *Typha latifolia*	 1000 1000 1000-2000	 4.25 4.25 4.25-8.5	 600-1000 600 600-1000	 N.A
Pyrazosulfuron Ethyl 10% WP					
Transplanted Rice	*Cyperus Iria,* *Cyperus difformis,* *Fimbristylis miliacea,* *Monochoria vaginalis,* *Ludwigia parviflora*	10-15 g	100-150	500-600	95
Pyrithiobac Sodium 10% EC					
Cotton (Gossypium)	*Trianthema Spp* *Amaranthus Spp* *Chenopodium Spp* *Digera Spp* *Celosia argentia*	62.5-75 gm	625-750	500	160
Pyroxasulfone 85% w/w WG					
Wheat	*Phalaris minor*	127.5 g	150 ml	500	131
Maize	*Echinochloa crusgalli,* *Eleusine indica,* *Phyllanthus niruri*	127.5 g	150 ml	500	103
Soybean	*Echinochloa colona,* *Celosia argentia,* *Trianthema portulacastrum,* *Amaranthus viridis,* *Digera arvensis*	127.5 g	150 ml	500	94
Pyrazosulfuron Ethyl 70% WDG					
Transplanted Rice	*Echinichloa spp,* *Cyperus rotundus,* *Ludwigia parviflora*	21	30	500	43

Quinclorac 250g/l SC					
Rice	*Echinochloa spp.* *(*Barnyard grass*)*, *Panicum repens* *(*Creeping panic*)*	187.5 - 250	750-1000	500	78
Quizalofop-ethyl 5% EC					
Soybean	*Echinochloa crusgalli* *E. colomum* *Eragrostis sp.*	37.5-50 gm.	0.75-1.0	500-600	95
Cotton	*Echinolchloa crusgalli,* *Echinochloa colonum,* *Dinebra retroflexa* *Digiteria marginata*	50.5	1000	500	94
Groundnut	*Echinochloa colonum,* *Dinebra retroflexa* *Dactyloctenium sp.*	37.5-50.0	750-1000	500	89
Black gram	*Eleusine indica,* *Dactyloctenium aegyptium,* *Digitaria sanguinalis,* *Eragrostis sp.,* *Paspalidium sp.,* *Echinochloa sp.,* *Dinebra ratroflexa*	37.5-50.0	750-1000	500	52
Onion	*Digitaria sp.,* *Eleusine indicia,* *Dactyloctenium aegyptium,* *Eragrostis sp.,*	37.5-50.0	750-1000	375-450	7
Quizalofop-ethyl 10% EC					
Soyabean	*Love grass (eragrosts ipilosa),* *Crab grass (digitaria sanguinalis/ wild finger/* *Makra grass Viper grass,* *Barnyard grass,* *sanwa/Samel,* *Brown top millet*	375-45.0	375-450	300-500	69-103
Quizalofop –p-tefuryl 4.41% EC					

Soybean	*Echinochloa spp.* *Dinebra arabica* *Digitaria sanguinalis* *Cynodon dactylon* *Hemarthria compressa* *Eleusine indica*	30-40 gm	750-1000 ml	400	30
Saflufenacil 70.0% w/w WG					
Non Cropped Areas	*Cyperus rotundus* *Dactyloctanium aegyptium* *Eleusine indca* *Cynodon dactylon* *Chloris barbata* *Echinocloa colona* *Amaranthus viridis* *Portulaca oleraceae* *Commelina benghalensis* *Ageratum conyzoides* *Digera arvensis* *Euporbia hirta* *Parthenium hysterophorus*	70	100	500	N.A.
Tea	*Ageratum conyzoides* *Bidens spp.* *Borreria spp.* *Conyza spp.* *Crassocephala integrifolia* *Galinsoga parviflora* *Mumosa pudica* *Chromolaena odorata* *Commuenila benghalensis* *Lantana camara*	70	100	450	7
Sulfentrazone 39.6% w/w SC					
Soybean	*Acalypha sp.,* *Commelina sp.,* *Digera sp.,* *Cyprus sp.* *Echinochloa sp.,* *Brachiaria sp.,* *Dinebra sp.*	360	750	500	88
Sugarcane	*Trianthema sp.,* *Digera spp.,* *Amaranlhus spp.,* *Phyllanthus spp.,* *Euphorbio spp.,* *Dacteloctenium spp.,* *Digitaria spp.,* *Brachiaria spp.,*	720	1500	500	306

	Echinocloa spp., *Cynodon spp,* *Cyperus spp.*				
Sulfosulfuron 75% WG					
Wheat	*Phalaris minor* *Chenopodium sp.* *Melilotus alba*	25 gm	33.3 gm	200-250 + Cationic surfactant 1250ml/ha	110
Tembotrione 34.4% SC					
Maize	*Trianthema portulacastrum,* *Echinochloa sp.* *Bracheria sp.*	120g	286ml	500L	55
Triallate 50% EC					
Wheat	*Avena fatua*	1.25 kg	2.5 kg.	250-500	150
Triasulfuron 20% WG					
Wheat	*Chenopodium album,* *Anagallis arvensis,* *Medilotus alba,* *Rumex spp,* *Medicago denticulata,* *Fumeria pomiflora,* *Cronopus didymus,* *Spergula arvensis* *Malvela perviflora*	20	100	500	81
Tea	*Ageratum conyzoides,* *Borreria spp.,* *Crassocephalum crepidiodes,* *Oxalis spp.,* *Bidens pilosa,* *Conyza ambigua,* *Drymaria diandra,* *Emillia sonchifolia,* *Mitracarpus verticilatus,* *Syndnedrella nodiflora.*	25	125	500	7
Topramezone 336 g/l w/v SC					

Maize	*Eleusine indica, Digitaria sanguinalis, Dactyloctenium aegyptium, Echinocloa spp., Chloris barbata, Parthenium hysterophorus, Digera arvensis, Amaranthus viridis, Physalis minima, Alternanthera sessilis, Convolvulus arvensis, Celotia argentea.*	25.2 to 33.6 g a.i./ha + MSO adjuvant @ 2 ml/l of water	75 to 100 ml + MSO adjuvant @ 2 ml/l of Water	375	83

HERBICIDE COMBINATIONS

Ametryn 73.1% w/w + Trifloxysulfuron sodium 1.8% w/w WG					
Sugarcane	*Echinochloa colona, Cyanadon dactylon, Cyperus rotundus, Amaranthus viridis, Trianthema spp. and Digitaria sanguinalis*	937.5-1125	1250-1500	500	221
Anilofos 24% +2,4-D ethyl Ester 32% EC					
Transplanted rice	*Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum Fimbristylis miliacea*	(0.24+ 0.32) to (0.36 + 0.48) kg	1-1.5 ltrs.	300	90
2,4-D sodium salt 44% + Metribuzin 35% + Pyrazosulfuron ethyl 1.0% WDG					
Sugarcane	*Echinochloa spp, Elusine indica (Indian goosegrass) Brachiaria spp. Digitaria spp. Dactyloctenium agypytium (Crowfoot Grass) Eclipta alba (false daisy) Chenopodium album (Bathua) Physalis minima (Little Gooseberry) Portulaca oleracea (Purslane) Parthenium hysterophorus (Congress grass) Cyperus spp.*	1320 + 1050 + 30	3000	500	249

Bensulfuron methyl 0.6%+Pretilachlor 6% GR					
Transplanted Rice	*Echinochloa crusgalli, Echinochloa colonum, Cynodon dactylon Cyperus iria, Cyperus difformis, Cyperus rotundus, Fimbristylis miliacea, Ludwigia parviflora, Marselia quadrifolia, Enhydra fluctuans, Sphenoclea zeylanica, Eclipta alba, Ammania baccifera.*	60 + 600 gm	10 kg	N.A.	88
Bensulfuron-Methyl 4.8 % + Pretilachlor 48% OD					
Transplanted Rice	*Echinochloa crusgalli, Echinochloa colonum, Cynodon doctylon, Cyperus iria, Cyperus difformis, Ludwigia parviflora, Eclipta alba, Monochoria vaginalis, Ammania boccifera*	60+600	1250	375	102
Bispyribac Sodium 20% + Pyrazosulfuron Ethyl 15% WDG					
Rice	*Echinochloa colonum, Echinochloa crusgalli Eclipta alba, Cyperus rotundus*	20+15	100	500	130
Bispyribac Sodium 38% + Chlorimuron ethyl 2.5%+ Metsulfuron Methyl 2.5% (w/w) WG					
Rice (Transplanted)	*Echinochloa colonum, Cyperus difformis, Fimbristylis miliacea, Eclipta alba, Ludwigia parviflora, Sphenoclcea zaylenica, Scirpus Sp.*	43	100	500	64
Rice (Direct Seeded)	*Echinochloa colonum, Cyperus difformis, Eclipta alba, Ludwigia parviflora, Sphenoclcea zaylenica, Scirpus Sp.*	43	100	500	64

Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW					
Tea	*Ageratum conyzoides* *Bidenspilosa* *Borreria sp.* *Crassocephalumcr epidioides* *Cynadon sp.* *Cyperous sp.* *Digitaria sp.* *Eleusine indica* *Mimosa sp.* *Mltracarpus villosus* *Oxalis sp.*	12.90 +924.60	3000	500	7
Non-cropped area	*Ageratum conyzoides* *Axonopus sp.* *Brachiaria sp.* *Commelina sp.* *Cynodon dactylon* *Cyperous sp.* *Digitaria sp.* *Eleusine indica* *Imperata cylendrica* *Lantana camera* *Parthenium sp.*	12.90 +924.60	3000	500	--
Carfentrazone ethyl 20% + Sulfosulfuron 25% WG					
Wheat	*Phalaris minor* *Avena ludoviciana* *Chenopodium album* *Medilotus alba* *Rumex spp*	20+25 +750 ml Surfactant	100	300	110
Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP					
Wheat	*Phalaris minor,* *Avena fatua, Chenopodium album, Melilotus sp.,* *Fumaria parviflora,* *Vicia sativa,* *Rumex sp.,* *Anagallis arvensis, Coronopus didymus, Lathyrus sp.,* *Convolvulus arvensis*	60+4	400	375 (Add 1250 ml surfactant at the time of sparying)	100
Clodinafop propargyl 9% + Metribuzin 20% WP (w/w)					

Wheat	*Phalaris minor Chenopodium album, Melilotus sp Vicia sativa, Rumex sp Medicago sp Cronopus didymus Dinebra vetroflexa*	54+120	600	300	120
Clomazone 20%+2,4-D Ethyl Ester 30% EC					
Transplanted Rice	*Echinochloa colonum, Echinochloa crusgalli, Cyperus iria, Cyperus difformis, Eclipta alba, Leptochloa chinensis, Panicum repens, Fimbristylis miliacea, Marsilea quadrifoliata, Ludwigia parviflora.*	0.250-0.375 Kg	1.25 ltrs.	500	100-110
Clomazone 22.5% w/w + Metribuzin 21% w/w WP					
Sugarcane	*Trianthema Spp. Amaranthus viridis Phyllanthus niruri Bracharia Spp. Dactyloctenium aegyptium Echinochloa spp. Digitaria Spp. Cynodon dactylon*	563 + 525	2500	500L	307 days
Fenoxaprop-p-ethyl 7.77% w/w + Metribuzin 13.6% w/w EC					
Wheat	*Phalaris minor* (Little seed canary grass) *Chenopodium album* (Lambs quarter) *Lathyrus aphaca* (Meadow Pea) *Rumes Sp.* (Golden dock) *Melilotus spp.* (Sweet clover) *Avena ludoviciana.*	100+175	1250	375	110
Fluthiacet-methyl 2.5% + Quizalofop-ethyl 10% EC					

Soybean	Day flower *(Commelina benghalensis)* Copper leaf *(Acalypha indica)* False amaranth *(Digera arvensis)* Carrot grass *(Parthenium hysterophorus)* Jungle rice *(Echinochloa colona)* Viper grass *(Dinebra retroflexa)* Crab grass *(Digitaria sanguinalis)*	12.5 + 50	500	500	67
Florpyrauxifen-benzyl 1.31% w/w +Penoxsulam 2.1% w/w OD					
Transplanted Rice	*Echinochloa colona,* *Echinochloa crusgalli,* *Cyperus difformis,* *Cyperus iria,* *Eclipta alba,* *Ludwigia parviflora,* *Ammania baccifera*	15.63+25 g	1250	375-500	83
Direct seeded rice	*Echinochloa colona,* *Echinochloa crusgalli,* *Cyperus difformis,* *Cyperus iria,* *Eclipta alba,* *Ludwigia parviflora,* *Commelina communis*	15.63+25 g	1250	375-500	83
Florpyrauxifen-benzyl 2.13% w/w + Cyhalofop-butyl 10.64% w/w EC					
Transplanted Rice	*Echinochloa colona,* *Echinochloa crusgalli,* *Leptochloa Chinensis,* *Cyperus rotundus,* *Ammannia baccifera,* *Eclipta alba,* *Ludwigia parviflora*	150	1250	375-500	67
Direct seeded rice	*Echinochloa colona,* *Echinochloa crusgalli,* *Leptochloa chinensis,* *Cyperus difformis,* *Cyperus iria* *Eclipta alba,* *Ludwigia parviflora,* *Monochoria vaginalis*	150-180	1250-1500	375-500	92
Fluazifop-p-butyl 11.1% w/w + Fomesafen 11.1% w/w SL					

Soybean	*Echinochloa colona* *Digitaria sp* *Eleusine indica* *Dactyloctenium aegyptium* *Brachiaria reptans* *Commelina benghalensis* *Digera arvensis* *Trianthema sp.* *Phyllanthus niruri* *Aclypha indica* *Dinebra arbica*	250	1000	500	71
Groundnut	*Echinochloa colona* *Digitaria sp.* *Eleusine indica* *Dactyloctenium aegyptium* *Commelina benghalensis* *Eluropus villosus* *Indigofera glandulosa* *Chloris barbata* *Trianthema sp.* *Digera arvensis* *Cleome viscose* *Phyllanthus niruri* *Amaranthus virdis* *Cyperus sp.*	250	1000	500	82
Fomesafen 12 % + Quizalofop ethyl 3% w/w SC					
Soybean	*Echinochloa colona,* *Eleusine indica,* *Doctyloctenium aegyptium,* *Digitaria sanguinolis,* *Cyperus rotundus*	180+45	1500	500	71
Glufosinate ammonium 13.4% + Oxyfluorfen 4.8% w/w EW					
Tea	*Cynodon dactylon,* *Digitaria sanguinalis,* *Commelina benghalensis,* *Bidens biternata,* *Ageratum conyzoides*	420+150 g	3000	500	10
Halosulfuron Methyl 5% + Atrazine 48% WG					
Maize	*Echinochloa spp.* *Digitaria sanguinalis* *Eleusine indica* *Trianthema monogyna* *Celosia argentia* *Cyperus rotundus*	56.25+540	1125	375	37

Halauxifen-methyl 20.8% + Florasulam 20.0% w/w WG(with surfactant Polyglycol 26-2 N)					
Wheat	*Chenopodium album* *Rumex sp.* *Medicago denticulate* *Coronopus didymus*	12.76	31.23	375 (use along with surfactant Polyglycol 26-2 N at 750 ml/ha)	71
Halosulfuron Methyl 12% w/w+ Metribuzin 55% WG					
Sugarcane	*Digitaria sangunalis* *Eleusine indica* *Cyperus rotundus* *Dactylactenium aegyptium*	54+247.5	450	300	294
Hexazinone 13.2% + Diuron 46.8 % WP					
Sugarcane	*Enchinochloa colonum* *Dactylotenium aegyptium* *Trianthema monogyna* *Amaranthus virdis* *Ipomea spp* *Cyperus rotundus* *Cyperus esculentus* *Setaria spp* *Parthenium hysterophorus* *Euphorbia hirta*	1200 gm (264+936)	2 Kg	500	282-306
Indaziflam 1.65% w/w (2%w/v) + Glyphosate Isopropylammonium 44.63% w/w (40%w/v) SC					
Tea	*Ageratum sp.* *Borreria sp.* *Eleusine indica*	50+1000 to 70 + 1400 g.a.i/ha	2500 to 3500 ml/ha	500 L	14 days
Imazethapyr 35% + Imazamox 35% WG					
Soybean	*Echinochloa Colonum,* *Dinebra Arabica,* *Digitaria sanguinalis,* *Brachiaria mutica* *Commelina benghalensis* *Euphorbia hirta*	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	56

Groundnut	*Echinochloa Colonum,* *Digira arvensis,* *Commelina benghalensis* *Euphorbia hirta* *Amaranthus viridis* *Physalis minima* *Brachiria Spp.* *Trianthema portulacastrum*	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	83
Cluster bean	*Echinochloa colonum,* *Euphorbia spp.,* *Digitaria arvensis,* *Amaranthus viridis.*	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	500	64
Red gram	*Euphorbia spp.,* *Amaranthus viridis.*	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	375-500	125
Mesosulfuron methyl 3% + Iodosulfuron methyl sodium 0.6% WG					
Wheat	*Phalaris minor* *Medicago denticulata* *Chenopodium album* *Melilotus sp.* *Rumex sp.* *Anagallis arvensis* *Coronopus didymus* *Lathyrus aphaca* *Fumaria parviflora*	(12+2.4 gm)	400 ml.	400-500 + Surfactant (Genopol LRO fluid) @ 500 ml/ha	96
Mesotrione 2.27% w/w + Atrazine 22.7% w/w SC					
Maize	*Trianthema spp.,* *Cyperus spp.* *Digitaria sanguinalis,* *Echinochloa spp.* *Dactyloctenium aegyptium*	875 gm	3500	500	42
Sugarcane	*Trianthema spp.* *Amaranthus viridis,* *Echinochloa colona,* *Digitaria sanguinalis* *Cyperus rotundus,* *Dactyloctenium aegyptium*	875 gm	3500	500	190
Metribuzin 42% + Clodinafop propargyl 12% WG					
Wheat	*Phalaris minor (Canary grass),* *Avena spp. (Wild oat),* *Chenopodium album (Fat hen),* *Melilotus sp. (Sweet clover),* *Medicago denticulate (Toothed medic),*	210+60	500	375	92

	Rumex spp. (Wild spinach), Anagallis arvensis (Blue Pimpernel)				
Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP					
Transplanted Rice (Pre-emergence application-3 DAT	*Cyperus iria, Cyperus difformis, Fimbristlylis miliaceae, Eclipta alba, Ludwigia parviflora, Cyanotis axillaries, Monocoria vaginalis, Marsilea quadrifoliata,*	4gm	20 gm.	300	90
Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF					
Wheat	*Rumex dentatus Rumex spinosus Medicago denticulate Malva parviflora Lathyrus aphaca Chenopodium album Melilotus alba Melilotus indica Anagallis arvensis Solanum nigrum Vicia sativa Convolvulus arvensis*	25	50	300	100
Oxadiargyl 1% + Pretilachlor 6% GR					
Transplanted Paddy	*Echinochloa crusgalli, Echinochloa colona, Cyperus difformis, Eclipta alba, Ludwigia parviflora, Marsilea quadrifolia*	100+ 600	10 kg	-	85
Oxyflurofen 2.5% + Glyphosate (Isopropyl amime salt) 41% SC (w/w)					
Tea	*Ageratrum Conyzoids Cyperous sp Borreriabispida Pospalumcon jugatum Digitaria ciliaris*	50+820	2000	500L/ha.	14
Non Crop area	*Digitaria sanguinalls (Crab grass) Cynodon d actylon (Dhoob grass)*	78.125+128 1.25	3125	500	-

	Paspalum conjugalum (Hilo grass) *Cyperus spp., (Purplenut shedge)* *Digeria aruensis (False Amaranth)*				
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	*Echinocloa crusgalli,* *Digera arvensis,* *Commelina benghalensis,* *Amaranthus viridis,* *Portulaca oleracea*	(750+50) to (900+60) gm	2.5-3.0 ltrs	500-600	90
Penoxsulam 0.97% w/w + Butachlor 38.8% w/w SE					
Transplanted Rice	*Echinochloa colonum,* *Echinochloa crusgalli,* *Cyperus iria,* *Cyperus difformis,* *Marsilia quadrifoliata,* *Alternanthera spp.*	820 g.a.i/ha	2000ml/ha	750	60
Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD					
Rice (Direct seeded Rice)	*Echinochloa colona* *Echinochloa crusgalli* *Leptochloa chinesis* *Eleusine indica* *Alternanthera sessilis* *Caesulia axillaris* *Cyperus spp*	120-135	2000-2250	300-500	60
Rice (Transplanted Rice)	*Echinochloa colona* *Echinochloa crusgalli* *Leptochloa chinesis* *Caesulia axillaris* *Cyperus difformis* *Cyperus spp*	120-135	2000-2250	300-500	60
Pendimethalin 35% + Metribuzin 3.5% w/w SE					

Wheat	*Canary grass (Phalaris minor), Wild Oat (Avena ludoviciana), Lamb's quarters (Chenopodium album), Field bindweed (Convolvulus arvensis), Swine Cress (Coronopus didymus), Burmuda grass (Cyanadon doctylon)*	875 +87.5 to 1050 + 105 gm	2.5-3.0	500	123
Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC					
Transplanted Rice	*Echinochloa colona (wild rice), Echinochloa crus galli (banyyard grass), Marsilea quadrifolia (comrnon water clover), Ludwigia parvifl otz (rvater crest), Cyperus dffirmis (comrnon sedge)*	900 +20	2000	375	86
Pretilachlor 6% + Pyrazosulfuron Ethyl 0.15%(H)					
Paddy	Grassy weeds, Broad Leave, Sedges	600+15	10	-	83
Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR					
Transplanted Paddy	*Echinochloa Colonum Echinochloa Crusagalli Ludwigia paviflora, Elipta alba, Leptochola chinensis, Monochoria vaginalis, Cyperus difformis, Cyperus iria, Fimbristylis miliaceae*	600	10	-	83
Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG					
Paddy (Direct seeded Rice)	*Echinochloa colona, Eleusine indica, Leptochloa chinensis, Abernanthe a sessllis, Parthenium hysterophrous, Cyprus iria Cyprus difformis, Fimbristylis miliacea*	15+600	2000	375	113
Propaquizafop 2.5% + Imazethapyr 3.75% w/w ME					

Soybean	*Grassy weeds:* *Dactyloctnium aegyptium* *Echinocloa colonum* *Eleusine indica* *Digitaria sanguinalis* *BLW: Commelina* *Benghalensis* *Euphorbia hirta* *Digera arvensis* *Amaranthus viridis*	50+75	2000	500	80
Groundnut	**Monocot weeds** *Echinochloa colona,* *Cyperus difformis,* *Digitaria sanguinalis* **Broad leaved weeds** *Commelina benghalensis* *Digera arvensis*	50+75	2000	500	97
Blackgram	**Monocot weeds** *Digitaria sanguinalis* *Dcatylectonium aegyptium* *Cynodan dactylan* **Broad leaved weed** *Parthenium hysterophorus* *Commelina benghalensis* *Euphorbia hirta*	50+75	2000	500	56
Clusterbean	**Monocot weeds** *Cyperus rotundus* *Digitaria sanguinalis* **Broad leaved Weeds** *Commelina benghalensis* *Amaranthus viridis*	50+75	2000	500	69
Propaquizafop 5% + Oxyfluorfen 12% w/w EC					
Onion	Grassy weeds *Digitaria sanguinalis,* *Dactyloctnium aegyptium,* *Echinocloa colona,* *Eleusine indica* BLW: *Chenopodium album,* *Digera arvensis* *Amaranthus viridis*	43.75 +105	875	500	7
Pyriftalid 31.0% w/w + Bensulfuron methyl 15.7% w/w SC					

Transplanted Rice	*Echinochloa sp.,* *Cyperus spp.,* *Sphenochlea zeylanica,* *Ludwigia spp.,* *Eclipta alba,* *Marsilea spp.,* *Fimbristylis miliacea*	175 (116.1g a.i. of Pyriftalid + 58.9g a.i. of Bensulfuron methyl)	375	Upto 5 L/ha	99
Pyrithiobac Sodium 3.1 % w /w + Pendimethalin 34.0 % w/w ZC					
Cotton	*Digitaria sanguinalis,* *Commelina benghalensis,* *Amaranthus viridis,* *Parthenium hysterophorus,* *Celosia argentia*	649.25-742.00 g	1.75-2.00 lt	500	152
Pyrithiobac Sodium 6% w/w+ Quizalofop-ethyl 4% w/w EC					
Cotton	*Trianthema spp* *Digera spp* *Celosia argentia* *Dinebra retroflexa* *Digitaria marginata*	(60+40) to (75+50) g.a.i/ha	1.0-1.25 Ltr/ha	500	160
Quizalofop ethyl 4% + Oxyfluorfen 6% EC					
Onion	*Digitaria sanguinalis (*Crab grass) *Cyperus rotundus* (Moth)	100	1000	375	7
Quizalofop Ethyl 10% EC + Chlorimuron Ethyl 25% WP + Surfactant (0.2) (Herbicide) (Twin pack)					
Soyabean	Aghada (*Acanthospermum sp.),* *Alternanthra spp.* *Celosia argentia* *Borreria spp.* *Parthenium spp.* *Euphorbia geniculate* *Eragrostis pilosa E. viscosa* *Digitaria marginata* *Dactylactonium aegyptium* *Echinocloa spp.* *Cynodon dactylon* *Brachiaria ramosa*	Quizalofop ethyl 10% EC 37.5g Chlorimuron ethyl 25% WP 9g Surfactant 0.2%	Quizalofop ethyl 10% EC 375ml Chlorimuron ethyl 25% WP 36g Surfactant 0.2%	300	75

Quizalofop ethyl 7.5% + Imazethapyr 15% w/w EC					
Groundnut	*Dactyloctenium aegyptium* *Digitaria spp.* *Echinochloa spp.* *Cyperus rotundus* *Commelina bengalensis* *Digera arvensis*	32.81 + 65.625	437.5	375-500	90
Soybean	*Dinebra arabica (*Viper Grass*),* *Digitaria sanguinalis (*Crabgrass*), Dactyloctenium aegyptium (*Crowfoot grass*),* *Digera arvensis (*False amaranth*), Cynodon dactylon (*Bermuda grass*), Commelina benghalensis (*Tropical spiderwort*)*	32.81+65.625	437.5	500	75
Sulfentrazone 28% + Clomazone 30% WP					
Soybean	*Commelina benghalinsis,* *Acalypha indica,* *Corchorus spp.,* *Euphorbia spp.,* *Parthenium hysterophorus,* *Echinochloa colonum,* *Brachiaria spp.,* *Dinebra spp.,* *Cyperus rotundus.*	350+375	1250	500	84
Sugarcane	*Amaranthus viridis,* *Trianthema spp.,* *Digera arvensis,* *Physalis spp.,* *Brachiaria spp.,* *Cynodon dactylon,* *Echinochloa spp.,* *Dactyloctenium aegtptium,* *Cyperus rotundus.*	700+750	2500	500	302
Sulfosulfuran 75%+ Metsulfuron Methyl 5%WG					
Wheat	*Phalaris minor,* *Chenopodium sp.,* *Medicago denticulata,* *Coronopos dedymus,* *Rumex spp.* *Melilotus alba,* *Anagallis arvensis*	(30+2)	40 gm	250-500 + surfactant 1250 ml/ha	110

Sodium Acifluorfen 16.5% + Clodinafop Propargyl 8% EC					
Soybean	*Acalypha indica, aegyptium, Alternanthera v philoxeroides, Amaranthus spp., Celosia argentea, Cleome viscose, Commelina benghalinsis, Dactyloctanium, Digera arvensis, Digitaria sanguinalis,* Echinochloa spp., *Eleusine indica, Euphorbia spp., Parthenium spp., Phyllanthus niruri, Physalis minima, Stellaria media Trianthema monogyna*	80 + 165	1000	500	61
Topramezone 10 g/l + Atrazine 300 g/l SC					
Maize	*Parthenium hysterophorus Panicum spp. Amaranthus viridis Celotia argentia Melilotus alba Alternenthera sp. Digitaria sanguinalis*	775	2500	500	90
Sugarcane	*Amaranthus viridis Cynodon dactylon Portulaca oleraceae Alternenthera sessalis*	930	3000	500	268
Triafamone 20% + Ethoxysulfuron l0% WG					
Rice Transplanted	*Echinochloa colona, Echinochloa crusgalli, Cyperus rotundus, Cyperus difformis, Fimbistylis miliaceae, Marsilea quadrifolia.*	44+22.5	225	300	83
Rice Direct Seeded	*Echinochloa colona, Cyperus rotundus, Digera arvensis, Commelina benghalinsis.*	44+22.5	225	300	83

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MAJOR USES OF PESTICIDES

(Registered under the Insecticides Act, 1968)

(Based on certificate issued)

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

INSECTICIDES

1. **Insecticides registered for Agriculture use**
2. **Insecticides combination registered for agriculture use**
3. **Insecticides registered for Public Health use**
4. **Insecticides registered for Household use**
5. **Ad-hoc approval of insecticides for Fall Army Worm (FAW)**
6. **Recommended chemicals by FAO for Locust Control**

Approved Uses of Registered Insecticides.

Agricultural Use					
Crop	**Common Name of the pest**	**Dosage/ha**			**Waiting Period (days)**
		a.i (gm)	**Formulation (gm/ml)**	**Dilution in Water (Liter)**	
Abamectin 01.90 % EC					
Rose (Ornamental)	Red spider mites (*Tetranychus urticae*)	0.00048-0.00096%	0.025-0.050%	500	03
Grapes	Mites	0.014/L	0.75 ml/L water	500 – 1000	03
Acephate 75 % SP					
Cotton	Jassids	292	390	500 – 1000	15
	Bollworms	584	780	500 – 1000	15
Safflower	Aphids	584	780	500 – 1000	15
Rice (Paddy)	Yellow stem borer, Leaf folder, Plant Hoppers, Green leafhopper	500 – 750	666 – 100	300 – 500	15
Acephate 97 % DF					
Cotton	Jassids & Boll wormcomplex	436.50 – 582	450 – 600	500	48
Paddy (Rice)	Yellow stem borer,Leaf folder, Plant hoppers, Green leafhopper	727.50	750	500	21
Acephate 95 % SG					
Rice (Paddy)	Stem borer, Leaf folder, Brown planthopper	562.50	592	500	30
Cotton	Jassids	750	790	500	18

Chilli	Thrips, Fruit borer (*Helicoverpa armigera*), Aphid	750	790	500	07
Acetamiprid 20 % SP					
Cotton	Aphids, Jassids	10	50	500 – 600	15
	Whiteflies	20	100	500 – 600	15
Cabbage	Aphids	15	75	500 – 600	07
Okra (Bhindi)	Aphids	15	75	500 – 600	03
Chilli	Thrips	10 – 20	50 – 100	500 – 600	03
Rice (Paddy)	Brown plant hopper	10 – 20	50 – 100	500 – 600	07
Acetamiprid 25% + Bifenthrin 25 % WG					
Cotton	Jassid, aphids, thrips, whiteflies, *Pectinophora gossypiella*, *Helicoverpa armigera*, *Earias vitella*	80	160	500	33
Soybean	Whitefly, girdle beetle, semi looper and tobacco caterpillar	125	250	500	28
Afidopyropen 50 g/L DC					
Brinjal	Whitefly, Jassids	50	1000	500 – 750	01
Cotton	Whitefly, Jassids	50	1000	500 – 750	25
Cucumber	Whitefly	35 – 50	700 – 1000	500	05
Alphacypermethrin 10.00% EC					
Cotton	Boll Worms	15 – 25	165 – 280	600 – 1000	07
Alphacypermethrin 10.00% SC					
Cotton	Boll Worms	25 – 30	250 – 300	500 – 1000	10

Name of Commodity	Common name of the pest	Dose	Exposure Period	Aeration Waiting period
Aluminum Phosphide 56 % (3g Tablet, 10g Pouch)				
Stored Whole Cereals and Seed Grains Millet, Pulses Dry Fruits,Nuts Spices & Oil Seeds	Rice Weevil (*Sitophilus oryzae*),Lesser Grain Borer, Khapra Beetle (*Trogoderma granarium*), Rust Red Flour Beetle, Saw Toothed Grain Beetle, Caddle Beetle, Drug Store Beetle, Cigarette Beetle, Pulse Beetle	03 tablets (03 gm) per ton or 150 gm per 100m^3 or 10 gm Pouch Per ton of commodity or 150 gm per 100 m^3.	Minimum 05 Days (*Sitophilus oryzae*) or 07 Days (*Trogoderma granarium*)	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 48hrsin both the cases. Recommendation for bag stock 15 days.
Mild Products: De-oiled Cakes, Rice Bran Flour, Grain Animal & Poultry Food SplitPulses (Dal) & other Processed Food	Long Headed Floor Beetle, Coffee Borer, Dried Fruit Beetle, Flat Grain Beetle, Carpet Beetle	03 tablets/10 gm per ton or 225 gm/100 m^3	05 days	Aeration is waiting Period07 days to be checked PH^3 detector strips.
Empty Godowns &Sheds	Rice Moth, Almond Moth, Mites, Fruit Fly, Granary Weevil, Caddle or Flour worm, Red Flour Beetle, Indian Meal Moth, Larger cabinet	14 tablets/1000 m^3 or 150 gm/100 m^3 or 4pouch 10 gms each/1000 CFTor 150 gm/100 m^3	72 hrs.	Aeration Period24 hrs detectorstrips or 4hosphine detect tubes should be used in the premises to signal safety of atmosphere.

	Moth, Wheat KernelDamage in the field Cockroach.			
Rodents Burrows	Rodents	01 Tablet / Burrow	-	-
Aluminum Phosphide 15 % (12g Tablet)				
Stored whole cereals and seed grains.	Rice weevil, Rust redflower beetle	1 tablet (12 g)per ton or 600100 m^3	Non polythene Packed commodities: Partial-1 hour. Full-(6-8) hour. Polythene Packed commodities: Minimum 48 hrs.	07-14
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	-	05
Milled products: De-oiled cakes, Rice bran	Rust red flower beetle	3 tablets/ton	48 hrs.	05
Flour Suji meals and Crushed grain (Animal & poultry feed), Split Pulses Dals)	Saw Toothed Grain, Beetle , Rice Moth, Almond Moth, long headed flour beetle & Mites	900 g/100 m3	48 hrs.	03
Other processed food and Empty Godowns & Sheds (under air tight condition)	All insect pests.	14 tablets/1000 tons or 600 g/1000 m^3	48 hrs. 24 hrs.	03
Aluminium Phosphide 77.50 % GR				

Stored Grain	Red Rust Flour Beetle, Lesser GrainBorer, Rice Weevil,Khapra Beetle	3.35 gm	07 days		24 hours
Aluminum Phosphide 06 % Tablet					
Crop & Non-Crop area	Field rodents	0.72 g a.i./burrow	One tablet of 12 gm/burrow		-
Barium Carbonate 1% P					
Godowns, Residential Premises, Public halls	Rats, Mice, Field Rodents	10-20% Technical material to be mixed with bait	-	-	-
Beta-cyfluthrin 02.45 % SC					
Cotton	Bollworm	12.5-18.75	500 – 750	500 – 1000	20
Benfuracarb 03 % GR					
Rice (Paddy)	Stem borer, Leaf folder, Brown planthopper	1000	33000	-	20
Benfuracarb 40 % EC					
Red gram (Tur or Arhar)	Pod borer	1000	2500	500	20
Benzpyrimoxan 10% SC					
Rice	Brown Plant Hopper, White Backed Plant Hopper	75-100	750-1000	500	31
Bifenazate 50 % WP					
Rose	Two Spotted Mite (*Tetranychus urticae*)	375	750	3000	-
Bifenazate 22.60 % SC					
Rose	Two Spotted Mite (*Tetranychus urticae*)	120	500	2000	-
Bifenthrin 08 % SC					
Tea	Red spider mite,	40.00	500	400	11

	Tea Mosquito bug				
Apple	Mites	60 gm (0.006% Conc.)	7.50 ml/tree	10 lit/tree	21
Bifenthrin 08.80 % CS					
Rice (Paddy)	Stem borer, Leaffolder	44	500	500	21
Bifenthrin 10 % EC					
Cotton	Bollworms, Whitefly	80	800	500	15
Rice (Paddy)	Stem borer, Leaf folder, Green leaf hopper	50	500	500	21
Sugarcane	Termites	100	1000	500	300

Bifenthrin 02.50 % EC

Pre and post construction: Bifenthrin 2.5% EC shall be applied at 0.05% a.i. conc. i.e. 20.0 ml formulated product diluted in 1 liter of water for the control of termites in building during pre and post construction. Treatment should be as per IS 6313 (Part 2):2001 for pre construction chemical treatment and IS 6313 (Part-3): 2001 for post construction treatment of the existing building.

Recommendation for use of control of Wood borer (Powder Post Beetle) in plywood, veneer and wood

Use	Method of application	Dosage (a.i.)	Dilution
Plywood	Glue Line Poisoning	10 g/ meter3 of wood	400 ml formulation per meter3 of wood
	Dipping	0.025% Solution	Mix 01 lit of formulation in 99 lit of water to make 0.025% Solution
Veneer	Dipping	0.025% Solution	Mix 01 lit of formulation in 99 lit of water to make 0.025% Solution
Wood	Dipping /Brushing	0.025% Solution	Mix 01 lit of formulation in 99 lit of water to make 0.025% Solution

Brodifacoum 0.005 %w/w BB

Pest	Dose rate	Manner of application /use pattern

Field rats/Bandicootrats (*Bandoicota bengalensis; B. indica*) Indian houserat / Black, Indian house rat/black rat/roof rat (*Rattus rattus; R. meltade*),	One bait of 0.005% (a block of 20 gm each) per baiting station as a single feed	In and around premises (Residential, commercial, institutional, industrial public service premises, cold storage , Godowns, ware house, municipal locations, grain mandis, crop store rooms, burrow baiting, livestock rearing facilities, damp premises such as sewer etc.)			
House mouse/ Fieldmouse (*Mus musculus*)					
Broflanilide 300 g/l SC					
Chilli	Fruit borer (*Helicoverpa armigera*)	12.6- 18.6	42-62	500	1
	Thrips (*Scirtothrips dorsalis*)	18.6- 25.2	62-84	500	1
Brinjal	Shoot and fruit borer (*Leucinodes orbonalis*)	12.6- 18.6	42-62	500	1
	Thrips (*Thrips tabaci*)	18.5- 25.2	62-84	500	1
Tomato	Fruit borer (*Helicoverpa armigera*) & leaf miner (*Liriomyza trifolii*)	18.6-25.2	62-84	500	1
Soybean	*Helicoverpa armigera*, *Spodoptera litura*, Semilooper (*Chrysodeixis acuta*)	12.6-18.6	42-62	500	37
Red gram	*Helicoverpa armigera* & *Maruca vitrata*	12.6-18.6	42-62	500	25
Broflanilide 20% SC					
Brinjal	Shoot and fruit borer (*Leucinodes orbonalis*), Thrips (*Thrips tabaci*) & Jassids (*Amrasca devastans*)	25	125	500	1
Cabbage	Diamond back moth (*Plutella xylostella*) & Tobacco caterpillar (*Spodoptera litura*)	25	125	500	1
Chilli	Fruit borer (*Helicoverpa armigera*), Tobacco caterpillar (*Spodoptera litura*), Thrips (*Thrips tabaci*) and Jassids (*Amrasca devastans*)	25	125	500	1
Okra	Fruit borer (*Helicoverpa armigera*), Thrips (*Thrips tabaci*) and Jassids (*Amrasca devastans*)	25	125	500	1
Bromadiolone 00.25 % CB					
Paddy (Rice)	Field Rat, Large Bandicota Indian house rat, Indianfield mouse	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 00.005 % RB					
Paddy (Rice)	Field Rat, Large Bandicota, Indian house rat	0.005	-	-	-
Wheat	Indian Field mouse, Field Rat	0.005	-	-	-
Gram	Indian house rat, Field Rat, Indian house rat	0.005	-	-	-
Groundnut, Sugarcane	Field Rat, Large Bandicota	0.005	-	-	-
Coconut/ Bamboo	Indian house rat, Field Rat Large Bandicota	0.005	-	-	-
Residentialpremises	Indian House rat, House mouse	0.005	-	-	-
Poultry Farm	Indian house rat, House mouse, LargeBandicota	0.005	-	-	-
Buprofezin 25 % SC					
Cotton	Whitefly Aphids, Jassids, Thrips	250.0	1000	500 – 750	20
Chilies	Yellow Mite	75.0-150.0	300-600	500 – 750	05
Mango	Hoppers	0.025% - 0.05%	1-2 ml/liter of water	5-15 liter per tree	20

Grapes	Mealy bugs	250 – 375	1000 – 1500	500 – 1000	07
Rice	Brown plant hopper, Green leaf hopper, White Back Plant Hopper	200	800	400 – 500	20
Buprofezin 70 % DF					
Okra (Bhindi)	Jassids	200	286	500	05
Cotton	Jassids, Whitefly	250 – 300	357 – 429	500	20
Rice	Brown plant hopper	175	250	500	24
Carbofuran 03 % CG					
Barley	Aphid, Cyst nematode	1000	33300	-	-
	Jassids	1250	41600	-	-
Bajra	Shoot fly	1500	50000	-	-
Sorghum	Shoot fly	1000	33300	-	-
	Stem borer	250	8300	-	-
Jute	Nematodes	1000	33300	-	-
Groundnut	Pod borer	1500	50000	-	-
	White grub	1000	33300	-	-
French bean	White grub	700	23300	-	-
Potato	Aphid	500	16600	-	-
	Jassids	1000	33300	-	-
Tomato	Whitefly fly	1200	40000	-	-
Apple	Woolly aphid	05/tree	166/tree	-	-
Citrus	Nematode	360	12000	-	-
	Leaf miner	1500	50000	-	-
Maize	Stem borer, Shootfly, Thrips	1000	33300	-	-
Paddy (Rice)	Brown plant hopperGall midge, Stem borer, Green leaf hopper, Hispa	750	25000	-	-
	Nematodes	1500	50000	-	-
Mustard	Mustard leaf miner	2000	66600	-	-
	Whitefly	1000	33300	-	-

Soybean	Root knot nematode	1500	50000	-	-
Sugarcane	Top borer	2000	66600	-	-
Bhindi (Okra)	Jassids	1000	33300	-	-
Chilli	Aphid , Thrips	1000	33300	-	-
Cabbage	Nematode	1000	50000	-	-
Wheat	Ear cockle nematode	3000	10000	-	-
	Cereal cyst nematode	2000	66600	-	-
Brinjal	Root knot nematode,Reni form nematode	2000	66600	-	-
Banana	Rhizome weevil	01 g/ suckers	33 g/sucker	-	-
	Aphid	50 g/ suckers	166 g/sucker	-	-
	Nematode	1.5 g/suckers	50 g/suckers	-	-
Peach	Leaf curl aphid	1000	33300	-	-
Mandarins	Soft greens scale	0.40 g/plant	13.30 g/plant	-	-
French bean	White grubs	750	23300	-	-
	Grey & Stem weevil	1000	33300	-	-
Pea	Shoot fly & Aphid	1000	-	-	-
Tea	Cock chafer grub	0.30 g/plant	33.10 g/plant	-	-
Carbosulfan 06 % Granules					
Rice (Paddy)	Stem borer, Gall midge, Green leaf hopper, Leaf folder	1000	16700	-	37
Carbosulfan 25% EC					
Rice (Paddy)	Green leaf hopper, White Back Plant Hopper, Brown plant hopper, Gall midge, Stem borer, leaf folder	200 – 250	800 – 1000	500 – 1000	14
Chilli	White aphid	200 – 250	800 – 1000	500 –	08

				1000	
Cumin	Aphid, Thrips	312.5	1250	500	17
Brinjal	Fruit and Shoot borer	312.5	1250	500	5
Cotton	Aphid, Thrips	312.5	1250	500	70
Carbosulfan 25 % DS					
Cotton	Jassid, Aphids,Thrips	15 gm/kg seed	50 gm/kg seed	Not required	-
Cartap Hydrochloride 04 % Granules					
Rice (Paddy)	Stem borer	750.0	18750	-	-
	Leaf folder, Whorlmaggot	750-1000	18750-25000	-	-
Cartap Hydrochloride 50 % SP					
Rice (Paddy)	Stem borer, Leaffolder	500	1000	500 – 1000	-
Cartap Hydrochloride 75 % SG					
Rice	Yellow stem borer,Leaf folder	318.75 – 375	425 – 500	250 – 500	35-89
Chlorantraniliprole 18.50 % SC					
Rice	Stem borer, Leaffolder	30	150	500	47
Cabbage	Diamond back moth	10	50	500	03
Cotton	American bollworm,Spotted bollworm, Tobacco caterpillar	30	150	500	09
Sugarcane	Termite	100 – 125	500 – 625	1000	208
	Early shoot borer,Top borer	75	375	1000	208
Tomato	Fruit borer	30	150	500	03
Chilli	Fruit borer	30	150	500	03
Brinjal	Shoot & Fruit borer	40	200	500 –750	22
Pigeon pea	Pod borer	30	150	500 –750	29

Soybean	Green Semi looper,Stem fly, Girdle beetle	30	150	500 –750	22
Bengal gram	Pod borers	25	125	500	11
Black gram	Pod borers	20	100	500	20
Bitter gourd	Fruit borers & Caterpillars	20 – 25	100 – 125	500	07
Okra (Bhindi)	Fruit Borer	25	125	500	05
Chlorantraniliprole 00.40 % GR					
Rice (Paddy)	Yellow stem borer,Leaf folder	40	10000	-	53
Sugarcane	Early shoot borer,Top borer	75	18.75	-	147
Chlorantraniliprole 35 % WG					
Okra	Fruit borer (*Helicoverpa armigera & Earias vittella*)	25	71	500	05
Tomato	Fruit borer (*Helicoverpa armigera*)	30	86	500	03
Chlorantraniliprole 50% W/w FS					
Rice	Yellow Stemborer (*Scirpophaga incertulas*), Leaf folder (*Cnaphalocrocis medinalis*)	75	120	Seed Dresser	-
Maize	Spotted Stemborer *(Chilo partellus)*	40	64	Seed Dresser	-
	Fall army worm (*Spodoptera frugiperda*)	70	112		
Chlorfenapyr 10 % SC					
Cabbage	Diamond back moth(*Plutella xylostella*)	75 – 100	750 –1000	500	07
Chilli	Mites (*Polyphagotarsonemus latus*)	75 – 100	750 –1000	500	05
Chlorfluazuron 05.40 % EC					
Cabbage	Diamond back moth,Tobacco leaf eating caterpillar	75	1500	500	07

Cotton	American bollworm,Tobacco leaf eating caterpillar	75 – 100	1500-2000	500	10
Chlorpyrifos 10 % Granules					
Rice (Paddy)	Stem borer, Leaf folder, Gall midge	1000	10000	-	30
Chlorpyriphos 75 % w/w WG					
Rice	Yellow stem borer *(Scirpophaga 13incertulas)*	375 – 400	500 – 533	500 –1000	15
Chlorpyrifos 20 % EC					
Paddy (Rice)	Hispa	250	1250	500 –1000	-
	Leaf folder	375	1875	500 –1000	-
	Gall midge, Stem borer, Whorl maggot	250	1250	500 –1000	-
Beans	Pod borer, Black bug	600	3000	500 –1000	-
Gram	Cut worm	500	2500	500 –1000	-
Sugarcane	Black bug	150	750	500 –1000	-
	Early shoot & stalkborer	250 – 300	1250 –1500	500 –1000	-
	Pyrilla	300	1500	500 –1000	-
Cotton	Aphid, Bollworm,Whitefly	250	1250	500 –1000	-
	Cut worm	750	3750	500 –1000	-
Groundnut	Aphid	200	1000	500 –1000	-
	Root grub	225	1125	500 –1000	-
Mustard	Aphid	100	500	500 –1000	-
Brinjal	Shoot & fruit borer	200	1000	500 –1000	-
Cabbage	Diamond back moth	400	2000	500 –1000	-
Onion	Root grub	1000	5000	500 –1000	-

Apple	Aphid	0.05%	3750-5000	1500 –2000	-
Ber	Leaf hopper	0.03%	2250-3000	1500 –2000	-
Citrus	Black citrus, Aphid	0.02%	1500-2000	1500 –2000	-
Tobacco	Ground beetle	350	1750	500 – 1000	-

Termite control

Non cropped area: Building (Pre & Post construction treatment @1.0% a.i.)

Forestry @1.0% a.i.

Cropped area: Wheat: 3-4 ml/kg seed

Barley: 4-6 ml/kg seed

Gram: 15-30 ml/kg seed

Soil treatment: Wheat: 2-3 lit/ha.

Sugarcane: 6.25 lit/ha.

Chlorpyrifos 50 % EC					
Rice (Paddy)	Stem borer, Leaffolder	375-400	750-800	500-1000	15
Cotton	Bollworms	500-600	1000-1200	500-1000	30
For non- agricultural use: - For protecting building from termite attack at pre and posts construction stages, apply Chlorpyriphos 50% EC @ 0.5% and 1.0% concentration.					
Chlorpyrifos 01.50 % DP					
Paddy (Rice)	Stem borer, Green leaf hopper, Brownplant hopper, Leaf folder, Gall midge, Grass hopper	375	25000	-	07
Bengal gram	Pod borer (*Helicoverpa armigera*)	375	25000	-	07
Chromafenozide 80 % WP					
Paddy (Rice)	Leaf folder, Stemborer	75-100	94-125	500	32

Clothianidin 0.5 % GR					
Okra	Jassids & White fly	40 – 60	8 - 12	--	01
Clothianidin 50 % WDG					
Rice (Paddy)	Brown plant hopper	10 – 12	20 – 24	500	12
Cotton	Jassids	15 – 20	30 – 40	500	20
	Whitefly	20 – 25	40 – 50	500	20
Cotton (Soil drench)	Jassids, Aphids,Thrips, Whitefly	100 – 125	200 – 250	1000	76
Sugarcane (Soildrench)	Termite	125	250	1000	310
Tea	Mosquito Bug (*Helopeltis theiovora*)	60	120	500	05
Coumatetralyl 0.75 % w/w Gel					
Indoor or outdoor	Rats (*Rattus rattus,Rattus norvegicus, Bandicota bengalensis, Bandicota indica,*	01 mg per spot	2.50 per spot	-	-
	Tetra indica, Meriones hurrianae)				
Indoor	Mice	01	2.50	-	-
Coumatetralyl 0.0375 % Bait					
Indoor or outdoor	Rats (*Rattus rattus, Rattus norvegicus, Bandicota bengalensis, Bandicota indica, Tetra indica, Meriones hurrianae*)	01 mg per spot	02.50 per spot	-	-
Indoor	Mice	01	02.50	-	-
Cyantraniliprole 10.26 % OD					

Grapes	Thrips (*Scirtothrips dorsalis),* Flea beetle (*Scelodonta strigicollis)*	70	700	1000	05
Pomegranate	Thrips (*Scirtothrips dorsalis),* Pomegranate butterfly (*Deudorixossypi16s)*	75 (0.0075%)	750 (0.075%)	1000	05
	Whitefly (*Siphoninus phillyreae),* Aphids (*Aphis punicae*)	90 (0.009%)	900 (0.09%)	1000	05
Cabbage	Cabbage Aphid (*Brevicoryne brassicae*), MustardAphid (*Lipaphis erysimi*), Diamond back moth (*Plutellaxylostella*), Tobaccocaterpillar (*Spodoptera litura*)	60	600	500	05
Chilli	Thrips (*Scirtothrips dorsalis*), Fruit borer (*Helicoverpa armigera*), Tobacco caterpillar (*Spodoptera litura*)	60	600	500	03
Tomato	Leaf miner (*Liriomyza trifolii*),Aphids (*Aphis ossypi*), Thrips (*Thrips tabaci*), Whitefly (*Bemesia tabaci*), Fruit borer (*Helicoverpa armigera*)	90	900	500	03

Gherkins	Leaf miner (*Liriomyzatrifolii*), Red pumpkinbeetle (*Aulacophora foveicollis*), Aphids (*Aphis 17ossypi*), Thrips (*Thrips palmi*), Whitefly (*Bemesia tabaci*), Pumpkin caterpillar (*Diaphaniaindica*), Fruit fly (*Bactrocera cucurbitae*)	90	900	500	05
Cyclaniliprole 9.3% W/W DC (Cyclaniliprole 10.0% W/V DC)					
Rice	Stem borer & Leaf folder	35-40	350-400	500	40
Cyenopyrafen 30 % SC					
Apple	Mite	60 – 90	200 – 300	1000	15
Chilli	Mite	60 – 90	200 – 300	400 – 600	07
Cyflumetofen 20 % SC					
Tea	Red spider mite	125 – 150	625 – 750	400 – 500	05
Cypermethrin 00.25% DP					
Brinjal	Fruit & shoot borer	50 – 60	20000 – 24000	-	03
Cypermethrin 10 % EC					
Cotton	Spotted bollworm, American bollworm, Pink bollworm	50 – 70	550 – 760	150 – 1000	07
Cabbage	Diamond back moth	60 – 70	650 – 760	100 – 400	07
Okra (Bhindi)	Fruit borer	50 – 70	550 – 760	150 – 400	03
Brinjal	Fruit & shoot borer	50 – 70	550 – 760	150 – 400	03
Wheat	Shoot fly	50	550.0	500 – 800	14
Sunflower	Bihar hairy caterpillar	60 – 70	650 – 760	500 – 700	14
Cypermethrin 25 % EC					
Cotton	Bollworms	40 – 70	160 – 280	400 – 800	-

	Jassids, Thrips	20 – 30	80 – 120	200 – 300	-
Bhindi (Okra)	Shoot & fruit borer,Jassids	37 – 50	150 – 200	500	03
Brinjal	Shoot & fruit borer,Jassids, *Epilachna* grub (Hadda beetle)	37 – 50	150 – 200	500	01
Dazomet					
Tobacco (Nursery)	Root knot nematode,Stunt nematode, Reni-form nematode	30 – 40	30 – 40	-	-
Tomato nursery	Root knot nematode	30 – 40	30 – 40	-	
Floriculture (Carnation &Gerbera)	Root-knot nematode	30 – 40	30 – 40		-
Deltamethrin 11% w/w EC					
Cotton	Bollworms	12.50	125	400 – 600	30
Rice (Paddy)	Stem borer, Leaf folder, Green leafhopper, Whorl maggot	15	150	500	13
Tea	Tea Thrips	10	100	400	15
Rice	Leaf folder	15 – 18.75	150 – 187.5	500	13
Tomato	Fruit borers	10 – 12.5	100 – 125	375 – 500	3
Okra	Fruit Borers	10-12.5	100-125	375 – 500	3
Chilli	Fruit borers	17.5	175	500	5
Onion	Thrips	15	150	500	5
Deltamethrin 25 % Tablet					
Cotton	Bollworms	12.50	50	400 – 600	30
Deltamethrin 01.80 % EC					
Cotton	Bollworms	12.50	781	400 – 600	30
	Sucking insects	10	625	400 – 600	30

Rice (Paddy)	Stem borer, Leaffolder	10 – 12.50	625 – 780	500	07
Deltamethrin 02.50 % WP					
Wheat & Rice (Grain & seed in stacks)	Rice weevil, Leasergrain borer, Khaprabeetle, Red flour beetle, Saw toothed grain beetle, Rice moth, Almond moth	30	1200	1 litre/30 m2	-
Walls, ceilings floors of Godowns	Rice weevil, Leaser grain borer, Khaprabeetle, Red flour beetle, Saw toothed grain beetle, Rice moth, Almond moth	30	1200	1.5-2.5 litre/50 m2	-
Public health	Mosquito	625 – 1250	25000 – 50000	-	-
Deltamethrin 02.80 % EC					
Cotton	Bollworm	12.50	500	400 – 600	-
	Sucking Insects	10	400	400 – 600	-
Tea	Thrips, Caterpillar	3-4	120 – 150	400 – 600	03
	Leaf folder	10	400	400 – 600	03
	Lopper	2.50 – 3.75	100 – 150	400 – 600	03
Bhindi (Okra)	Shoot & fruit borer	10 – 15	400 – 600	400 – 600	01
	Jassid	10	400.0	400 – 600	01
Groundnut	Leaf miner	12.50	500.0	400 – 600	03
Mango	Hoppers	0.03 – 0.05%	0.33-0.5 ml/lit	As per spray field requirement	01
Chilli	Fruit borer	10 – 12.5	400 – 500	400 – 600	05
Brinjal	Shoot & Fruit Borer	10 – 12.5	400 – 500	500	03

Red Gram (Arhar/Tur)	Pod Borer & Pod Fly	12.50	500.0	500	10
Dicofol 18.50 % EC					
Tea	Red spider mite, Scarlet mite, Pinkmite, Purple mite,Yellow mite	230	1250.0	250	15-20
Okra (Bhindi)	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 & Bittergourd	Red spider mite	250 – 500	1350 – 2700	500 – 1000	15-20
Diafenthiuron 47.80 % 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	07
Chilli	Mites	300	600	500 – 750	03
Brinjal	Whitefly	300	600	500 – 750	03
Cardamom	Thrips, Capsule borer	400	800	1000	07
Citrus	Mites	1.0 g/l	2.0 g/l	2-3 liter/ha.	30
Cotton	Whiteflies, Aphids,Thrips, Jassids	239	500	500	30
watermelon	Whiteflies and Red spider mites	300	600	500	05

Okra	Whiteflies, Red Spider mites and Jassids	300	600	500	05
Tomato	Whiteflies and Redspider mites	300	600	500	05
Diflubenzuron 25 % WP					
Cotton	Tobacco Caterpillar	75 – 87.50	300 – 350	500 – 1000	-
	Bollworms	75	300	500 – 1000	-
Dimethoate 30 % EC					
Bajra	Milky weed bug	180-200	594-660	500 -1 000	-
Cotton	Aphis, Jassids, Thrips	200	660	500 - 1000	24
	Grey weevil	300	1000		
Apple	Stem borer	0.03%	1485-1980	1500 – 2000	In March April And June
Cabbage	Aphid	200	660	500 – 1000	-
Cauliflower	Painted bug, MustardAphid	200	660	500 – 1000	-
Chilli	Thrips	200	660	500 – 1000	-
	Mites	300	990	500 – 1000	-
Maize	Stem borer	200	660	500 – 1000	-
	Shoot fly	350	1155	500 – 1000	-
Sorghum	Midge	500	1650	500 – 1000	-
Castor	Jassids, Mites	250	825	500 – 1000	-
	Semi looper	350	1155	500 – 1000	-
Mustard	Leaf minor, Aphid,Sawfly	200	660	500 – 1000	-
Safflower	Aphid	200	660	500 – 1000	-
Onion	Thrips	200	660	500 – 1000	-
Potato	Thrips	200	660	500 – 1000	-

	Aphid	200	660	500 – 1000	-
Apricot	Aphid	0.03%	1485- 1980	1500 – 2000	Pre bloom
Banana	Aphid	0.03%	1485- 1980	1500 – 2000	At 3 mont hsold
	Lace wing bug	0.03%	1485- 1980	1500 – 2000	-
Citrus	Black citrus aphid	0.03%	1485- 1980	1500 – 2000	-
Bhindi (okra)	Aphid	700	2310	500 – 1000	-
	Leaf hopper, Jassids	600	1980	500 – 1000	-
Fig	Fig Jassid	0.03%	1485- 1980	1500 – 2000	-
Mango	Mealy bug	0.05%	2475- 3300	1500 – 2000	-
	Hopper	0.05%	2475- 3300	1500 – 2000	-
Tomato	Aphid, Whitefly	300	990	500 – 100	-
Brinjal	Jassids	600	1980	500 – 1000	-
	Shoot borer	200	660	500 – 1000	-
Rose	Scale	750	2475	500 – 1000	-
	Thrips	400	1320	500 – 1000	-
Dinotefuran 20 % SG					
Rice (Paddy)	Brown plant hopper	30 – 40	150 – 200	500	21
Cotton	Whitefly, Jassids,Aphids & Thrips	25 – 30	125 – 150	500	15
Emamectin benzoate 05 % SG					
Cotton	Boll worms	9.5 –11.0	190 – 220	500	10
Okra (Bhindi)	Fruit & Shoot Borer	6.75 –8.50	135 – 170	500	05
Cabbage	Diamond back moth	7.5 – 10	150 – 200	500	03
Chilli	Fruit borer, Thrips,Mites	10	200	500	03

Brinjal	Fruit and Shoot borer	10	200	500	03
Red gram (Arhar/Tur)	Pod borer	11	220	500 – 750	14
Chickpea	Pod borer	11	220	500	14
Grapes	Thrips	11	220	500 – 1000	05
Tea	Tea looper	10	200	500	01
Emamectin benzoate 01.90 % EC					
Cotton	Boll worms	11	580	500	15
Chilli	Fruit borer , Thrips	07.13	375	500	03
Chick pea	Pod borer	07.13	375	500	14
Paddy	Leaf folder & Hispa	8.08	425	500	48
Soybean	Green semi looper,pod borer, Girdle beetle & Tobacco caterpillar	8.08	425	500	20
Ethion 50 % EC					
Tea	Red spider mites, Purple mites, Yellowmite, Thrips, Scale	250	500	500 – 1000	03
Cotton	Whitefly	750–1000	1500 –2000	500 – 1000	-
	Bollworms	1000	2000	500 – 1000	25
Chilli	Mites & thrips	75 – 1000	1500 –2000	500 – 1000	05
Gram	Pod borer	500 –750	1000 –1500	500 – 1000	21
Pigeon pea orRedgram (Arhar/Tur)	Pod borer	500 – 750	1000 –1500	500 – 1000	21
Soybean	Girdle beetle & stemfly	750	1500	500 – 1000	30
Ethofenoprox 10 % EC					

Rice	Brown plant hopper,Green leaf hopper, Stem borer, Leaf folder, Gall midge, Whorl maggot, White backed plant hopper	50 – 75	500 – 750	500	15

Ethylene dichloride+Carbon tetrachloride (3:1)

Crop	Common name of the pest	Cond.	Weight of volume	Exposure period	Conc. In air (ppm)	Aeratio n / Waitin g
Stored whole cereals MilletsPulses	Rice weevil, Lesser grain Borer, Khapra Beetle, Rust red flour beetle, Pulse beetle, Dried fruit Beetle	Air tight cover	300 –400 gm/m^3 (230 – 307 ml)	48 – 72 Hr. forcover fumigation	10 ppm	Partial aeration Forat least 1 hr. followed by24 hr. complete Aeration waiting period of 24hr.

Godown fumigation	Rice weevil, Lesser grain Borer, Khapra Beetle, Rust red flour beetle, Pulse beetle, Dried fruit Beetle	Air tight cover	150 gm/m3	07 days	10 ppm	Partial aeration Forat least 1 hr. followed by24 hr. complete Aeration waiting period of 24hr.
Etoxazole 10 % SC						
Brinjal	Red spider mite		40	400	400 – 500	05
Tea	Red spider mite		40	400	400	05
Fenazaquin 10 % EC						
Tea	Red spider mite, PinkMite, Purple mite		100	1000	400 – 600	07
	Scarlet mite		125	1250	400 – 600	07
Chilli	Yellow mite		125	1250	400 – 600	10
Apple	Red spider mite, Twospotted mite		40	400	1000	30
Okra (Bhindi)	Red spider mite		125	1250	500	07
Brinjal	Red spider mite		125	1250	500	07
Tomato	Two spotted spidermite		125.0	1250	500	07
Fenazaquin 18.3 % SC						
Brinjal	Red spider mite		114.375	625	400 – 500	10
Fenobucarb (BPMC) 50 % EC						
Rice	Brown plant hopper,Green leaf hopper		250 – 750	500 – 1500	500	30

Fenpropathrin 10 % EC					
Cotton	Pink boll worm, Spotted boll worm, American boll worm	75 – 100	750 – 1000	750 –1000	14
Fenpropathrin 30 % EC					
Cotton	Pink boll worm, Spotted boll worm, American boll worm, White fly	75 - 100	250 – 340	750 – 1000	14
Chilli	Thrips, Whitefly,Mites	75 – 100	250 – 340	750 – 1000	07
Brinjal	Whitefly, Shoot andFruit borer, Mites	75 – 100	250 – 340	750 – 1000	10
Okra (Bhindi)	Whitefly, Shoot andFruit borer, Mites	75 – 100	250 – 340	750 – 1000	07
Tea	Mites	50 – 60	165 – 200	400 – 500	07
Paddy (Rice)	Yellow stem borer,Leaf folder	100	333	500	30
Fenpyroximate 05 % EC					
Tea	Red spider mite, PinkMite, Purple mite	15 – 30	300 – 600	400 – 500	07
Chilli	Yellow mite	15-30	300 – 600	300 – 500	07
Cotton	Jassids, Mites	37.50	750	500	15
Coconut	Eriophyid mites	0.50 gm/tree (Root feeding)	10ml/lit.	As required	-
	Eriophyid mites	0.056-0.075 gm/tree	0.75-01.0 ml/lit.	As required	-
Fenpyroximate 05 % SC					
Chilli	Yellow mite	15 – 30	300 – 600	500 – 750	03
Tea	Red spider mite, Pinkmite, Purple mite	30 – 60	600 – 1200	400	07
Fenpropathrin 10% EW					
Rice	Stem borer (Scirpophagaincertulas) and leaf folder (Cnaphalocrocismedinalis)	100	1000	5000	58

Fenvalerate 20 % EC					
Cauliflower	Diamond back moth,American boll worm,Aphids, Jassids	60 -75	300 – 375	600 – 750	07
Cotton	Boll worm	75 -100	375 – 500	700 – 900	07
	Aphids, Jassids,Thrips	25 -40	125 – 200	250 – 400	07
Brinjal	Shoot & fruit borer,Aphids	75 – 100	375 – 500	600 – 800	05
Okra (Bhindi)	Shoot & fruit borer,Jassids	60 – 75	300 – 375	600 – 750	07
Fenvalerate 02 % Conc.					
Cotton	Spotted & Spiny, Pink American, Egyptian boll worm	80 – 100	4000 – 5000	-	-
Fenvalerate 00.40 % DP					
Cotton	Spotted Bollworm,Pink Bollworm	80 – 100	20000-25000	-	07
Fipronil 05 % SC					
Rice	Stem borer, Brown plant hopper, Green leaf hopper, Rice leafhopper, Rice Gall midge, Whorl maggot, White backed plant hopper	50 – 75	1000 – 1500	500	32
Cabbage	Diamond back moth	40 – 50	800 – 1000	500	07
Chilli	Thrips, Aphids, Fruitborers	40 – 50	800 – 1000	500	07
Sugarcane	Early shoot borer &Root borer	75 – 100	1500 –2000	500	270
Cotton	Aphid, Jassid, Thrips, White fly	75 – 100	1500 –2000	500	06
	Boll worms	100	2000	500	07
Fipronil 18.87 % w/w SC					
Cotton	Thrips	75	375	375 – 500	21

Chilli	Thrips, Aphids, *Helicoverpa armigera*	50	250	500	5
Rice	Stem Borer, Leaf Folder , Brown Plant Hopper	50	250	500	46
Fipronil 02.92 % EC					
Pre-construction (Building)	Termite	0.25%	100	01	IS:6313-2001 (Part-2)
Post-construction (Building)	Termite	0.25%	100	01	IS:6313-2001 (Part-3)
Fipronil 00.30 % GR					
Rice	Stem borer, Brown plant hopper, Green leaf hopper Rice leafhopper, Rice gall midge, Whorl maggot, White backed plant hopper	50 – 75	16670 –25000	-	32
Sugarcane	Early shoot borer,Root borer	75.0 – 100	25000 –33300		09
Wheat	Termites	0.06	20 kg	-	91
Fipronil 00.60 % w/w GR					
Rice	Stem borer & Leaffolder	60	10	-	65
Sugarcane	Early shoot borer, Termite	75	12.5	-	229
Fipronil 80 % WG					
Rice	Stem borer, Leaf folder	40 – 50	50 – 62.50	375 – 500	19
Grapes	Thrips	40 – 50	50 – 62.5	750 – 1000	10
Onion	Thrips	60	75	500	15
Cabbage	Diamond back moth	75	93.75	500	15
Chilli	Thrips	40 – 50	50 – 62.5	500	5
Cotton	Thrips (*Thrips tabaci*)	60	75	375-500	14

Flocoumafen 0.005% Block Bait (Strom)

Usage	Common pest	a.i. (mg)	Formulation (g)	How to apply	Waiting Period

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

Bengal gram	Pod borer	50	250	500	15
Sugarcane	Early shoot borer	75	375	500 – 750	204
Flubendiamide 39.35 % w/w SC					
Rice	Stem borer, Leaffolder	24.0	50.0	375 – 500	40
Cotton	Bollworms (American & Spottedbollworm)	48 – 60	100 – 125	375 – 500	25
Pigeon pea	Pod borer	48	100	500	10
Black gram	Fruit borer	48	100	500	11
Chilli	Fruit borer	48 – 60	100 – 125	500	07
Tomato	Fruit borer	48	100	375 – 500	05
Cabbage	Diamond moth back	18.24	37.5 – 50	375 – 500	07
Brinjal	Shoot and fruit borer	72 – 90	150 – 187.5	500	05
Bengal gram	Pod Borer (*Helicoverpa armigera* & *Spodoptera* spp.)	48	100	500	05
Okra	Shoot & fruit borer	48 – 60	100 – 125	500	03
Soybean	Defoliators (*Helicoverpa armigera, Spodoptera litura*and Semilooper)	72	150	500	17
Flubendiamide 00.70 % GR					
Paddy(Rice)	Stem borer	85 – 100	12.14-14.28	NA	25
Fluensulfone 2% GR					
Tomato	Root knot nematode	0.02g/plant & 444 to 512 g/ha	1.0 g/plant & 22.2 to 25.6 Kg/ha	-	7
Cucumber		0.02 g/plant & 100 to 200 g/ha	1.0 g/plant & 8.0 to 10 Kg/ha	-	55
Okra		0.02 g/plant & 800 to 910 g/ha	1.0 g/plant & 40.0 to 45.5 Kg/ha	-	7
Flufenoxuron 10 % DC					

Rose	Mites	50	500	500 –1000	06
Flumite 20 % SC / Flufenzine 20 % SC					
Brinjal	Mite	80 – 100	400-500	500 – 1000	05
Tea	Pink mite, Purplemite	80 – 100	400-500	500 – 1000	07
	Red spider mite	100 – 120	500-600	500 – 1000	07
Fluopyram 34.48 % w/w SC					
Tomato	Root knot nematode (*Meloidogyne incognita*)	250 (2 application) or 500 (Single application)	625 (2 application) or 1250(Single application)	1000	05
Flupyradifurone 17.09 % w/w SL					
Okra (Bhindi)	Jassids, Whitefly	250	1250	500	03
Flupyrimin 2% GR					
Rice	Stem Borer, Brown Plant Hopper	100-150	5000-7500	NA	77
Flupyrimin 10 % SC					
Paddy	Brown Plant Hopper (*Nilparvata lugens*)	75-100	750-1000	500	7
Fluvalinate 25 % EC					
Cotton	Aphids, Jassids, Redcotton bug	50 – 100	200 -400	500 –1000	07
	Bollworm	50 – 100	200 -400	500 – 1000	07
Fluxametamide 10% w/w EC					
Brinjal	Leaf hopper, Thrips, Fruit and Shoot Borer	40	400	500	5
Cabbage	Diamond Back Moth, Tobacco caterpillar, Semi looper	40	400	500	5
Chilli	Thrips, Fruit Borer, Tobacco caterpillar	40	400	500	5
Okra	Leaf hopper, thrips, Fruit borer	40	400	500	5
Redgram	Spotted pod Borer, Pod Borer	40	400	500	5
Tomato	Thrips, Fruit borer	40	400	500	5
Hexythiazox 05.45 % w/w EC					

Tea	Scarlet mite (*Brevipalpus phoenicis*)Red spider mite (*Oligonychus cofeeaea*)	15-25	300 – 500	400/ha	05
Chilli	Yellow mites (*Polyphagotarsonemus latus*)	15 – 25	300 – 500	625/ha	03
Apple	European Red Mite (*Panonychus ulmi*)	0.002%	0.04%	10ltr./tree	15
Grapes	Red spider mite	25	500	1000	05
Rose	Red spider mite	20-25	400 – 500	500	05
Brinjal	Red spider mite	25	500	500	07
Okra	Red spider mite	25	500	500	07
Imidacloprid 70 % WG					
Cotton	Jassids, Aphids,Thrips	21 – 24.5	30 – 35	375 – 500	07
Rice (Paddy)	Brown plant hoppers,White backed plant hoppers	21 – 24.5	30 – 35	300 – 375	07
Okra (Bhindi)	Jassids, Aphids,Thrips	21 – 24.5	30 – 35	300 – 375	03
Cucumber	Aphids & Jassids	24.5	35.0	500	05
Tomato	Thrips & White fly	35	50	500	05
Potato	Aphids & White fly	63	90	500	30
Imidacloprid 48 % FS					
Cotton	Aphids, Whitefly,Jassids, Thrips	300 - 540	500 - 900	-	NR
Okra (Bhindi)	Jassid, Aphid	300 - 540	500 - 900	-	-
Sunflower	Jassid, Whitefly	300 - 540	500 - 900	-	-
Sorghum	Shoot fly	720	1200	-	-
Pearl millet	Shoot fly andtermites	720	1200	-	-

Soybean	Jassids	75	125	-	-
Maize	Shoot fly	0.6	1.0	-	-
Potato	Aphid & Jassids	0.0105	0.0175	-	-
Rice	Thrips	0.15	0.25	-	-
Wheat	Aphids, Termite	0.21	0.35	-	-
Imidacloprid 70 % WS					
Cotton	Aphids, Whitefly,Jassids, Thrips	350 - 700	500 - 1000	-	NR
Okra (Bhindi)	Jassid, Aphid	350 - 700	500 - 1000	-	-
Chilli	Jassid, Aphid, Thrips	700 - 1050	1000 - 1500	-	-
Sunflower	Jassid, Whitefly	490	700	-	-
Sugarcane	Termite	70 - 105	100 - 150	-	-
Sorghum	Shoot fly	700	1000	-	-
Pearl millet	Termites and shootfly	700	1000	-	-
Mustard	Mustard sawfly,Painted bug	490	700	-	-
Imidacloprid 30.50 % m/m SC					
Cotton	Aphid, Jassids,Thrips	21 - 26.25	60 - 75	500 - 750	26
Rice (Paddy)	Brown plant hopper,White backed plant hopper	21 - 26.25	60 - 75	500 - 750	37
Chilli	Aphids, Thrips	43.75 – 52.5	125 - 150	500	5
For non- agricultural use:- For protecting building from termite attack at pre and post construction stages,apply Imidacloprid 30.5% m/m SC @ 0.075% a.i. concentration.					
Imidacloprid 17.80 % SL					
Cotton	Aphid, Whitefly,Jassid, Thrips	20 - 25	100 - 125	500 - 700	40
Paddy (Rice)	Brown plant hopper,White backed plant hopper, Green leaf hopper	20 - 25	100 - 125	500 - 700	40
Chilli	Jassid, Aphid, Thrips	25 - 50	125 - 250	500 - 700	40

Sugarcane	Termite	70	350	1875	45
Mango	Hopper	0.40-0.80g/tree	2-4ml/tree	10 litre	45
Sunflower	Whitefly, Jassid,Thrips,	20	100	500	30
Okra (Bhindi)	Aphid, Jassid, Thrips	20	100	500	03
Citrus	Leaf miner, Psylla	10	50	Depending on size of tree & Protection equipment used	15
Groundnut	Aphid , Jassid	20 - 25	100 - 125	500	40
Tomato	Whitefly	30 - 35	150 - 175	500	03
Grapes	Flea beetle	0.06 - 0.08	300 - 400	1000	32
Imidacloprid 00.30 % GR					
Paddy(Rice)	Stem borer	0.045	15.0 kg	-	26
Imidacloprid 17.1 % w/w SL					
Cotton	Aphid, Whitefly, Jassids, Thrips	50	250	500	50
Rice	Brown Plant Hopper, White Backed Plant Hopper and Green Leaf Hopper	60	300	500	39
Indoxacarb 14.50 % SC					
Cotton	Bollworm	75	500.0	600 - 1000	16
Cabbage	Diamond back moth	30 - 40	200 - 266	400 - 750	07
Chilli	Fruit borer	50-60	333 - 400	300 - 600	05
Tomato	Fruit borer	60-75	400 - 500	300 - 600	05
Pigeon pea	Pod borer complex	50-60	333 - 400	500 - 1000	15
Indoxacarb 15.80 % EC					
Cotton	Bollworms (*Helicoverpaarmigera*)	75	500	500 - 1000	14
Cabbage	Diamond back moth(*Plutella xylostella*)	40	266	500 - 1000	05
Pigeon pea	Pod borer complex(*Helicoverpa*	50	333	500 - 700	12

	armigera), Pod fly				
Rice	Leaf folder (*Cnephalocrosis medinalis*), Green Semilooper, Stem fly	30	200	500	14
Soybean	Tobacco caterpillar (*Spodoptera litura*),Pod borer (*Heliothis armigera*), Green Semilooper (*Chrysodexis acuta*), stem fly (*Melanogromyza spp*.)	30	333	500	31
Chickpea	Pod borer *(Helicoverpa armigera)*	50	333	500	18
Isocycloseram 9.2% W/W Dc (10% W/V) DC					
Brinjal	Jassids and Red Spider mite	20	200	500	5
	Shoot and Fruit Borer	60	600		
Cabbage	Leaf Feeder, DBM	20-30	200-300	500	10
Chilli	Yellow Mites	20	200	500	7
	Thrips and Fruit borer	60	600		
Cotton	Jassids	20	200	500	37
	Thrips and Ball worm	60	600		
Red Gram	Gram Pod Borer and Spotted Pod borer	50-60	500-600	500	58
Groundnut	Leaf miner, Leaf feeder, thrips and Jassids	50-60	500-600	500	48
Soybean	Leaf worm, semi-looper, Gridle Beetle, Stem fly	60	600	500	35
Isocycloseram 18.1% W/W SC (20 % W/V Sc)					
Rice	Leaf Folder	20	100	500	29
	Stem Borer	60	300		
Maize	Fall Armyworm, Stem Borer	60	300	500	48
Lambda-cyhalothrin 04.90 % CS					
Cotton	Bollworms	25	500	500	21
Paddy (Rice)	Stem borer, Leaffolder	12.50	250	500	15
Brinjal	Shoot & fruit borer	15	300	500	05

Okra (Bhindi)	Fruit borer	15	300	500	05
Tomato	Fruit borer	15	300	500	05
Grapes	Thrips & Flea beetle	12.50	250	500 - 1000	07
Chilli	Thrips, Pod borer	25	500	500	05
Soybean	Stem fly, Semilooper	15	300	500	31
Pomegranate	Thrips & fruit borer	0.002	0.04	500-1000/ as per age of tree	5
Cardamom	Shoot and CapsuleBorer and Thrips	20	400	1000	34
Lambda-cyhalothrin 02.50 % EC					
Cotton	Bollworms, Jassids,Thrips	15 - 25	600 - 1000	400 - 600	21
Rice (Paddy)	Leaf folder, Stem borer, Green leaf hopper, Gall midge,Hispa, Thrips	12.50	500	400 - 600	15
Lambda-cyhalothrin 05 % EC					
Cotton	Bollworms, Jassids,Thrips	15 - 25	300 - 500	400 - 600	21
Rice (Paddy)	Leaf folder, Stem borer, Green leaf hopper, Gall Midge,Rice hispa, Thrips	12.50	250	400 -600	15
Brinjal	Shoot & fruit borer	15	300	400 - 600	04
Tomato	Fruit borer	15	300	400 - 600	04
Chilli	Thrips , mite, podborer	15	300	400 - 600	05
Pigeon pea	Pod borer, Pod fly	20 - 25	400-500	400 - 600	15
Onion	Thrips	15	300	300 - 400	05
Bhindi (Okra)	Jassids , Shoot borer	15	300	300 - 400	04
Chickpea	Pod borer	25	500	300 - 400	06
Groundnut	Thrips, Leaf hopper,Leaf miner	10 - 15	200 - 300	400 - 500	10
Mango	Hoppers	0.0025-0.005%	0.5-1.0 ml/lof water	-	07

Lufenuron 05.40 % EC					
Cabbage	Diamond back moth	30	600	500	14
Cauliflower	Diamond back moth	30	600	500	05
Pigeon pea	Pod borer, Pod fly	30	600	500 - 1000	65
Cotton	American bollworm	30	600	500 - 750	48
Black gram	Pod borer	30	600	500	10
Chilli	Fruit borer	30	600	500	05
Magnesium Phosphide Degesch plates recommended for fumigation of un-manufactured tobacco forexport, as per importing country requirement.					
Malathion 05 % DP					
Paddy (Rice)	Rice Hispa	1250	25000	-	-
Sorghum	Earhead midge	1000	20000	-	At 90% emergence of ear head
Malathion 50.00% EC					
Paddy (Rice)	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 (Okra)	Aphid	500	1000	500 - 1000	-
	Jassids	625	1250	500 - 1000	-
	Spotted Bollworm	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, Woolyaphid	0.05%	1500-2000	1500 - 2000	-
Mango	Mealy scale, Mangohoppers	0.075%	2250-3000	1500 - 2000	-
Grape	Beetle	500	1000	1500 - 2000	-
Metaflumizone 22 % SC					
Cabbage	Diamond back moth	165 - 220	750 - 1000	500	03
Metaldehyde 2.5% DP					
Citrus, Rubber, Paddy (Rice), Tea,Vegetables	Snails, Slugs, Giant,African snails	Available in ready to use 2.5% Dust			
Methomyl 40 % SP					
Cotton	Bollworms	300 - 450	750 – 1125	500 - 1000	10
Pigeon Pea	Pod borers	300 - 450	750 - 1125	500 - 1000	07
Tomato	Pod borers	300 - 450	750 - 1125	500 - 1000	5/6
Chilli	Pod borers & Thrips	300 - 400	750 - 1125	500 - 1000	05-06
Groundnut	*Spodoptera litura*	300 - 350	750 - 850	500	07
Grapes	Mealy bug	500.0	1250	500 - 1000	10
Methoxyfenozide 21.8 % w/w SC					
Groundnut	Leaf eating caterpillar (*Spodopotera litura*)	210	875	500	26
	Groundnut leaf minor (*Aproaerema modicella*)	210	875	500	

	Pod borer (*Helicoverpaarmigera*)	210	875	500	
Sugarcane	Early shoot borer (*Chilo infuscatellus*)	120-150	500-625 (depending upon stage of crop)	500	161
Methyl Bromide 98 % w/w					
Stored Whole Cereals and Seed,Millet, Pulses	Rice Weevil, LesserGrain Bore, KhapraBeetle, Rust Red Flour Beetle, Saw Drug Store Beetle	Air tight cover	24 gm/m3	6-8 hours waiting Period 24 hrs.	As when residues not to exceed 25 ppm
Milled Products:Flour	Khapra Beetle, RustRed Flour Beetle, Lesser grain borer	Air tight cover	24 -32 gm/m3	12-24 hrs waiting Period 72 hrs	As when residues not to exceed 25 ppm
Dry Fruits, Nuts Spices & Oil Seeds	Rust Red FlourBeetle	Air tight cover	24 -32 gm/m3	24 hrs waiting Period 72 hrs	As when residues not to exceed 25 ppm
Milbemectin 01 % EC					
Rose	Two spotted, Spidermite	04.50	450	1000	05
Chilli	Yellow , White mite	03.25	325	500	07
Monocrotophos 15 % SG					
Cotton	Aphids, Jassids, Thrips, Whiteflies	200	1333	500 - 1000	58
Monocrotophos 36 % SL					
Paddy (Rice)	Brown plant hopper,Yellow stem borer	500	1250	500 - 1000	-
	Green leaf hopper,Leaf roller/folder	250	625	500 - 1000	-
Maize	Shoot fly	250	625	500 - 1000	-
Black gram	Pod borer	250	625	500 - 1000	-

Green gram	Pod borer	175	437	500 - 1000	-
Pea	Leaf minor	400	1000	500 - 1000	-
Red gram	Plume mouth, Podfly	250	625	500 - 1000	-
	Pod borer	500	1250	500 - 1000	-
Sugarcane	Shoot borer	600-800	1500-2250	500 - 1000	-
	Mealy bug	600.0	1500	500 - 1000	-
	Pyrilla	200	500	500 - 1000	-
	Scale Insect	600	1500	500 - 1000	-
	Stalk borer	750	1875	500 - 1000	
Cotton	Bollworms	450 - 800	1125 -2250	500 - 1000	-
	Aphid, Leaf Hopper,Thrips	175	437	500 - 1000	-
	Grey weevil	500	1250	500 - 1000	-
	White fly	150	375	500 - 1000	-
Citrus	Black aphids	0.040%	1500 - 2000	500 - 2000	10 lit./trees
	Mite	0.025%	937 - 1250	500 - 2000	10 lit./trees
Mango	Bug mite	0.040%	1500 - 2000	500 - 2000	10 lit./trees
	Gall maker, Hopper,Mealy bug, Shoot borer	0.04%	1500 - 2000	500 - 2000	20 lit./trees
Coconut	Black headed Caterpillar	03.50-07.00 gm per tree	08.75-17.50 ml per tree	Lower dose to be applied on plants below 09 years & higher or more than 09 years of age.	-
Coffee	Green bug	625	1562	500 - 1000	-
Cardamom	Thrips	375	937	500 - 1000	-

Novaluron 10 % EC					
Cotton	American Bollworm	100	1000	500 - 1000	40
Cabbage	Diamond back moth	75	750	500 - 1000	05
Tomato	Fruit borer	75	750	500 - 1000	1-3
Chilli	Fruit borer, Tobacco Caterpillar	33.50	375	500	03
Bengal gram	Pod borer	75	750	500	07
Novaluron 08.80 % SC					
Cotton	American boll worm,Tobacco caterpillar	100	1000	500 -1000	20
Oxydemeton-methyl 25 % EC					
Paddy (Rice)	Blue leaf hopper	125	500	500 - 1000	-
	White leaf hopper	250	1000	500 - 1000	-
Maize	Shoot fly	250	1000	500 - 1000	-
Sorghum	Shoot fly	250	1000	500 - 1000	-
Cotton	Aphid, Jassid (leafhopper)	300	1200	500 - 1000	-
Ground nut	Aphid, Leaf minor	250	1000	500 - 1000	-
Mustard	Aphid	250	1000	500 - 1000	-
Sesamum	Leaf hopper	300	1200	500 - 1000	-
Bhindi (Okra)	White fly	250	1000	500 - 1000	-
	Jassid, Leaf beetle	400	1600	500 - 1000	-
Chilli	Aphid	400	1600	500 - 1000	-
	Mites	500	2000	500 - 1000	-
	Thrips	250	1000	500 - 1000	-
Onion	Thrips	300	1200	500 - 1000	-
Tomato	White fly	250	1000	500 - 1000	-

Potato	Aphids	250	1000	500 - 1000	-
Apple	Sanjose scale	0.07%	4200- 5600	1500 - 2000	-
	Wooly Aphid	0.025%	1500-2000	1500- 2000	-
Banana	Tingid bug	0.025%	1500-2000	1500- 2000	-
	Aphids	0.05%	3000-4000	1500- 2000	-
Mango	Hoppers	0.025%	1500-2000	1500- 2000	-
Peaches	Leaf curl aphids	0.025%	1500-2000	1500- 2000	-
Coffee	Green bug	625	2500	500-1000	-
	Leaf minor	1000	4000	500-1000	-
Tobacco	White fly, Aphids	250	1000	500-1000	-
Permethrin 25 % EC					
Cotton	Bollworms	100 - 125	400 - 500	500 - 1000	-
Phenthoate 02 % DP					
Sorghum	Red spider mite, Pinkmite, Purple mite, Scarlet mite	400	20000	-	90% Emergence of earhead
Safflower	Aphid	400	20000	-	-
Phenthoate 50 % EC					
Paddy (Rice)	Rice case worm	500	1000	500 -1000	-
Ground nut	Leaf Webber	500	1000	500 -1000	-
Phosalone 35 % EC					
Barely	Aphid	500	1428	500 - 1000	-
Sorghum	Ear head midge	400	1143	500 - 1000	-
Jute	Red spider mite	350	1000	500 - 1000	-
Brinjal	Fruit borer	500	1428	500 - 1000	-
Cabbage	Aphid	500	1428	500 - 1000	-
Tomato	Fruit borer	450	1285	500 - 1000	-

Tea	Aphid, Pink mite,Purple mite	360	1028	500 - 1000	-
Phosalone 04 % DP					
Sorghum	Earhead midge	1000	25000	-	-
Phosmet 50% WP					
Chilli	Aphids, Thrips & Fruit borer	500	1000	500	10
Rice	Yellow stem borer & Leaf folder	600	1200	500	45
Cotton	Jassid, Aphids, Whitefly & Bollworms	600	1200	500	47
Profenofos 50 % EC					
Cotton	Bollworm	750 – 1000	1500 – 2000	500 – 1000	15
	Jassids, Aphids, Thrips, Whiteflies	500	1000	500 – 1000	15
Soybean	Semi looper &Girdle beetle	500	1000	500	40
Propargite 57 % EC					
Tea	Red spider mite, Pinkmite, Purple mite, Scarlet mite	430-612	750-1250	400	0 7
Chilli	Mite	850	1500	500 – 625	07
Apple	European red mite,Two spotted mite	2.85-5.7/tree	5-10 ml/tree	10 lit/tree	09
Brinjal	Two spotted spidermite	570	1000	400	06
Pymetrozine 50 % WG					
Paddy (Rice)	Brown plant hopper	150	300	500	19
Pyrifluinazon 20% WG					
Cotton	White fly (Bemisia tabaci)	100	375-500	500	30
Pyriproxyfen 10 % EC					
Brinjal	White fly & Jassids	50	500	300	07

Cotton	Whitefly	100	1000	500	31
Cotton	Whitefly	50-60	500-700	500	50
Chilli	Whitefly, Aphids	50	500	300	07
Okra	White fly & Jassids	50	500	300	07
Pyriproxyfen 10% EW					
Cotton	Whitefly (Bemisiatabaci), Jassid (Amrascadevastans) and thrips (Thrips tabaci)	100-125	1000-2500	500	38
Pyridaben 20 % w/w WP					
Tea	Red spider mite	100	500	500	07
Cotton	White fly	100	500	500	28
Chilli	Yellow mite	75 – 100	375 – 500	500	5
Pyridalyl 10 % EC					
Cotton	Bollworms	75 – 100	750 – 1000	500 – 750	07
Okra	Fruit & shoot borer	50 – 75	500 – 750	500 – 750	03
Cabbage	Diamond back moth	50 – 75	500 – 750	500 – 750	03
Quinalphos 25 % Gel					
Chilli	Aphid	250	1000	500 – 1000	-
Paddy (Rice)	Brown plant hopper,Leaf folder, Stem borer, Hispa	250	1000	500 – 1000	-
Quinalphos 05 % Granules					
Sorghum	Stem borer	750	15000	-	-
Paddy (Rice)	Gall midge, Stemborer	250	5000	-	-
Quinalphos 20 % AF					
Rice (Paddy)	Brown plant hopper,Green leaf hopper, Leaf folder, Stem borer	250 – 300	1250 – 1500	750 – 1000	40
Okra (Bhindi)	Shoot /Fruit borer	250 – 300	1250 – 1500	750 – 1000	07

Cotton	American bollworm,Pink Bollworm, Spotted bollworm	350 – 500	1750 – 2500	750 – 1000	07
Tomato	Fruit borer	300 – 350	1500 – 1750	750 – 1000	07
Tea	Hopper caterpillar	0.05%	1000	400	07
Pigeon pea	Pod borer	500.	2500	750 – 1000	30
Groundnut	Spodoptera	250 – 375	1250 – 1775	750 – 1000	30
Quinalphos 25 % EC					
Paddy (Rice)	Brown plant hopper	375	1500	500 – 1000	40
	Hispa/blue beetle	500	2000	500 – 1000	40
	Leaf folder	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,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, Semi looper, Yellow mite	375	1500	500 – 1000	-
Groundnut	Leaf Hopper, Thrips	350	1400	500 – 1000	30
	Leaf miner	250	1000	500 – 1000	30
Mustard	Sawfly	300	1200	500 – 1000	-

Sesamum	Leaf Webber, Jassids	500	2000	500 – 1000	-
Bhindi (Okra)	Fruit borer	200	800	500-1000	-
	Leaf hopper, Mite	250	1000	500-1000	-
Cauliflower	Stem borer	500	2000	500 – 1000	-
Chilli	Aphid	250	1000	500 – 1000	-
	Mite	375	1500	500 – 1000	-
Tomato	Fruit borer	250	1000	500 – 1000	-
Apple	Wooly Aphid	0.05%	3000 – 4000	500 – 1000	-
Banana	Tingid bug	0.05%	3000 – 4000	500 – 1000	-
Citrus	Scale	0.07%	4200 – 5600	500 – 1000	-
	Citrus butterfly	0.025%	1500 – 2000	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	07
Quinalphos 01.50 % DP					
Sorghum	Earhead bug	375	25000	At milk stage	
	Earhead midge	400	26600	At milk stage	
Paddy (Rice)	Brown plant hopper	300	20000	-	40
Gram	Pod borer	350	23300	At pod formation	
Red gram	Pod borer	350	23300	-	30
Soybean	Leaf weevil	250	16600	-	-
French bean	Stem fly	30	20000	-	-
Cotton	Aphid, Jassids,Thrips	300	20000	From square formation onwards	
	Bollworms	450	30000	From square formation onwards	

Ground nut	Thrips, Jassids	350	23300	-	30
	Red hairy caterpillar	375	25000	-	30
Safflower	Aphid	300	20000	-	-
Chilli	Aphid	300	20000	-	-
Spinetoram 11.70 % SC					
Cotton	Thrips	50	420	500 – 1000	30
	Tobacco caterpillar	50-56	420 – 470	500 – 1000	30
	Spotted boll worm				
Soybean	Tobacco caterpillar	54	450	500 – 625	30
Chilli	Thrips, Fruit borer,Tobacco caterpillar	56-60	470-500	400 – 500	07
Spinosad 45 % SC					
Cotton	American bollworm	75-100	165-220	500	10
Chilli	Fruit borer, Thrips	73	160	500	03
Chilli	Fruit borer (*H.armigera*) (*Scirtothripsdorsalis*)	56-73	124-162	500	03
Red gram	Pod borer	56 – 73	125 – 162	800 – 1000	47
Brinjal	Fruit & Shoot borer	73 – 84	162 – 187	500	03
Grapes	Thrips	25 ml/100 lit	250	1000	15
Spinosad 02.50 % SC					
Cabbage & Cauliflower	Diamond back moth	15 – 17.50	600 – 700	500	03
Spiromesifen 22.90 % SC					
Brinjal	Red spider mite	96	400	500	05
Cotton	White fly & mite	144	600	500	10
Apple	European Red Mite& Red spider mite	72 (0.03%)	300	1000	30
Chilli	Chilli Yellow Mite	96	400	500 – 750	07

Tea	Red spider mite	96	400	400	07
Okra (Bhindi)	Red spider mite	96 – 120	400 – 500	500	03
Tomato	Whiteflies & Mites	150	625	500	03
Cotton	White fly & mite	144	600	500	10
Spirotetramat 15.31 % w/w OD					
Chilli	Thrips & Aphids	60	400	500	05
Okra	Aphid, Whitefly, Mites	90	600	500	03
Grapes	Mealy bug, Mites	105	700	500 – 1000	60
Tetraniliprole 18.18 SC					
Rice	Yellow stem borer (*Scripophaga incertulus*) Leaf folder (*Cnaphalocrocis medinalis*)	50 – 60	250 – 300	500	43
Soybean	Girdle beetle (*Oberea brevis*) *Spodoptera spp.* Semilooper (*Chrysodeixis acuta*)	50 – 60	250 – 300	500	35
Tetraniliprole 40.34% FS					
Rice	Stem borer and leaf folder	4.8-6.0	10.0-12.5	NA	NA
Maize	Stem borer	2.4-3.6	5.0-7.5	NA	NA
Thiacloprid 21.70 % SC					
Cotton	Aphid, Thrips, Jassid	24 – 30	100 – 125	500	52
	Whitefly	120-144	500 – 600	500	52
Paddy (Rice)	Stem borer	120	500	500	30
Chilli	Thrips	54 – 72	225 – 300	500	05
Tea	Mosquito bug	90	375	400	07
Brinjal	Shoot & fruit borer	180	750	500	05
Soybean	Girdle beetle	180	750	500	17

Apple	Thrips	0.01-0.012%	0.04-0.05%	As per size of tree	30
Thiocyclam Hydrogen Oxalate 50% SP					
Rice	Stem borer, Leaffolder	500	1000	500	30
Thiodicarb 75 % WP					
Cabbage	Diamond back moth	750 – 1000	1000 – 1330	500	07
Cotton	Bollworms	750	1000	500	30
Brinjal	Shoot & Fruit borer	470 – 750	625 – 1000	500	06
Chilli	Fruit borer	470 – 750	626 – 1000	500	06
Black gram	Pod borer (*Maruca* spp.) & (*Helicoverpa*spp.)	468 – 562	625 – 750	375 – 500	17
Pigeon Pea	Pod Borer	470 – 750	625 – 1000	500	30
Thiamethoxam 30 % FS					
Cotton	Aphid, whiteflies,Jassids	03	10	This is used as seed dresser	
Sorghum	Shoot fly	03	10	This is used as seed dresser	
Wheat	Termites	01	3.3	This is used as seed dresser	
Soybean	Shoot fly	03	10	This is used as seed dresser	
Chilli	Thrips	02.1	7.0	This is used as seed dresser	
Okra (Bhindi)	Jassids	01.7	5.7	This is used as seed dresser	
Maize	Stem Fly	02.4	8	This is used as seed dresser	
Sunflower	Jassids, Thrips	03	10	This is used as seed dresser	

Thiamethoxam 70 % WS					
Cotton	Aphid, Thrips, Whitefly, Jassids	300	430	Use as seed dresser at the time of sowing	
Okra (Bhindi)	Aphids, Jassids	200	286	Use as seed dresser at the time of sowing	
Tomato	Aphids, Thrips	420	600	Use as seed dresser at the time of sowing	
Sunflower	Jassids, Thrips	280	400	Use as seed dresser at the time of sowing	
Wheat	Termite, Aphids	121	175	Use as seed dresser at the time of sowing	
Maize	Shoot fly, Aphids	245	350	Use as seed dresser at the time of sowing	
Rice (Paddy)	Thrips, Green leafhopper	105	150	Use as seed dresser at the time of sowing	
Thiamethoxam 75 % w/w SG					
Groundnut	Termite	94	125	500 – 1000	57
Sugarcane	Termite, Early shootborer	120	160	500 – 1000	230
Rice (Paddy)	Green leaf hopper, Brown plant hopper	113	150	Dissolve in500 ml water and mix with 20 kg sand/ha.	60
Cotton	Jassids & Thrips	94	125	50 – 100 ml/plant	109
Thiamethoxam 25 % WG					
Rice (Paddy)	Stem borer, Gall midge, Leaf folder, White backed plant hopper, Brown planthopper, Green leaf hopper, Thrips	25	100	500 – 750	14
Cotton	Jassid, Aphid,Thrips	25	100	500 – 750	21
	Whitefly	50	200	500 – 750	21

Okra (Bhindi)	Jassid, Aphid, Whitefly	25	100	500 – 1000	05
Mango	Hoppers	25	100	1000	30
Wheat	Aphid	12.5	50	500	21
Mustard	Aphid	12.5 – 25	50-100	500 – 1000	21
Tomato Foliar application	Whitefly	50	200	500	05
	(Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 10 – 15 days interval depending on the level of pest intensity)				
Brinjal Foliar application	Whitefly	50	200	500	03
	(Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 15 – 21 days interval depending on the level of pest intensity)				
Tea	Mosquito bug	25	100	400 – 500	07
Potato	Aphids: Foliar Application Soil drench	 25 50	 100 200	 500 400 – 500	 77 77
Citrus	Psylla	25	100	1000	20
	(Apply first spray during initial appearance of pest and repeat 2 – 3 sprays at 15 – 21 days interval depending on the level of pest intensity)				
Rice-Nursery (SoilDrenching)	Green leaf hopper, Thrips, Whorl Maggot	500	2000	250 ml/sq.mtr	86
Tomato Soil drench	White flies	100	400	500	05
	(Apply root zone after transplanting as soil drench once during crop season.)				
Cumin	Aphids	25	100	500	05
Thiamethoxam 0.4% + Bifenthrin 0.8% GR					
Groundnut	White grub & Termite	48+96	12	-	105

Tolfenpyrad 15 % EC					
Cabbage	Diamond back moth,Aphids	150	1000	500	05
Okra (Bhindi)	Aphids, Jassids,Thrips, Whitefly	150	1000	500	03
Cotton	Aphids, Jassids,Thrips, Whitefly	150	1000	500	26
Cumin	Aphids, Thrips	150	1000	500	29
Chilli	Aphids, Thrips	150	1000	500	7
Mango	Hoppers, Thrips	150.0	1000	500	7
Onion	Thrips	150.0	1000	500	10
Triflumezopyrim 10% w/w SC					
Paddy	Brown plant hopper & White backed plant hopper	25	236	500	21
Triflumezopyrim 20% w/w WG					
Rice	Brown Plant Hopper (*Nilaparvata lugens*), White Backed Plant Hopper (*Sogatella furcifera*)	25	125	500	21
Zinc Phosphide 80 % Powder					
Crop	**Pest organism**	**Dosage**		**Technical**	
For rodent control in field and residential premises(to be used under the supervision of trained personal)	*Rattus rattus, Bandicota bengalensis, Rattus meltade , Tatera indica, Meriones hurrianae, Mus platythrix, Mus musculus, Rattus norvegicus, Musbooduga, Suncus caeruleus*	1.5-2.5% active ingredient inbait		Mix 10 g of Zinc phosphide with 10g of edible oil and then mix with 380g of food material. Keep 10g of poisoned bait at each points.	

Combination Product					
Acephate 50 % + Bifenthrin 10 % WDG					
Cotton	Leaf hopper, Thrips,Bollworms	400 + 80.	800	500 – 750	20
Acephate 45 % + Cypermethrin 5 % DF					
Cotton	Aphid, Jassids, Thrips& White fly.	425	850	500 – 600	22
Acephate 25 % + Fenvalerate 03 % w/w EC					
Cotton	American bollworm,Sucking pest	500 + 60.	2000	500	15
Acephate 50 % + Fipronil 5% WDG					
Paddy	Stem borer, Leaf folder, Brown Plant Hopper	500 + 50	1000	500	27
Acephate 50 % + Imidacloprid 01.80 % SP					
Cotton	Aphid, Jassids, Thrips, Whitefly, Bollworms	518	1000	500	40
Paddy (Rice)	Brown Plant Hopper,Green Leaf Hopper, Stem borer & Leaf folder	518	1000	500	--
Acetamiprid 00.40 % + Chlorpyriphos 20 % EC					
Paddy (Rice)	Stem borer, Brown plant hopper, Whitebacked plant hopper	10 + 500	2.50	500 – 800	10
Acetamiprid 01.10 % + Cypermethrin 05.50 % EC					

Cotton	Aphids, Jassids, Thrips, Bollworms	10 + 50	1000	400 – 1000	30
Azoxystrobin 10.0% + Fipronil 5% SC					
Chilli	Thrips and fruit borer	50+100	1000	500	5
Rice	Yellow stem borer, leaf folder, brown plant hopper	62.5+ 125	1250	500	53
Azoxysrobin 1.3% + Tebuconazole 0.22% + Thaiamethoxam 25.9% FS					
Okra (seed treatment)	Aphids and Jassids	0.9+0.15+18.0	60	NA	NA
Beta-cyfluthrin 08.49 % + Imidacloprid 19.81 % w/w OD					
Brinjal	Aphids, Jassids, Shoot & fruit borer	15.75 + 36.75- 18 + 42	175 – 200	500	07
Soybean	Girdle beetle Semilooper	31.5 + 73.5	350	500	17
Cotton	Jassid Whitefly	18 + 42	200	500	21
Bifenthrin 03 % + Chlorpyriphos 30 % w/w EC					
Paddy (Rice)	Stem borer, Leaffolder	24 + 240- 30 + 300	800 – 1000	500	21
Bifenthrin 8% + Clothianidin 10% SC					
Ground nut	Whitegrub, thrips and aphids	80+100	1000	1000	83
Cotton	Grey weevil, mealy bug, 54jassids, whitefly, aphids and thrips	80+100	1000	1000	73
Sugarcane	Termites and early shoot borer	80+100	1000	1000	300

Buprofezin 09 % + Acephate 24 % w/w WP					
Rice (Paddy)	Brown plant hopper	54 + 144	600	500	20
Buprofezin 15 % + Acephate 35 % w/w WP					
Cotton	Jassids, Thrips &White fly	187.5 + 437.5	1250	500	--
Okra	Jassids & White fly	112.5 + 262.5	750	500	07
Paddy (Rice)	Brown plant hopper,White backed plant hopper	187.5 + 437.5	1250	500	20
Buprofezin 20 % + Acephate 50 % w/w WP					
Paddy (Rice)	Stem Borer, Leaf folder, Brown planthopper	200 + 500	1000	500	20
Cotton	Thrips, Jassids,Mealy bug	250 + 625	1250	500	15
Buprofezin 20 % + Acetamiprid 2% w/w WP					
Rice	Brown plant hopper, White backed plant hopper, Leaf Folder, Green Leaf Hopper, Stem Borer	176	800	400	15
Buprofezin 22 0% + Fipronil 3 % SC					
Rice (Paddy)	Brown plant hopper	110 + 15	500	400 – 500	32
Buprofezin 23.10 % + Fipronil 03.85 % w/w SC					
Rice	Brown plant hopper	173.25 + 28.88	750	500	30
Cartap Hydrochloride 50 % + Buprofezin 10 % w/w WP					

Rice	Yellow stem borer, Brown plant hopper,Leaf folder, Green leaf hopper, White backed plant hopper	480	800	500	20
Cartap Hydrochloride 7.5 % w/w + Emamectin benzoate 0.25 %w/w GR					
Rice	Yellow stem borer (*Scirpophaga incertulus*)	18.75 + 562.5	7.5	-	35
Cartap Hydrochloride 04 % + Fipronil 00.50 % CG					
Paddy (Rice)	Stem borer, Leaffolder	675 – 900	15 – 20	-	27
Cyantraniliprole 7.3% w/w + Diafenthiuron 36.4% w/w SC (Cyantraniliprole 8% w/v + Diafenthiuron 40% w/v SC) (Cyantraniliprole 80 g/L + Diafenthiuron 400 g/L – 480 SC)					
Cotton	Jassids, Whitefly, Thrips, Aphids, Pink bollworm	300 (50 + 250)	625	500	29
Chilli	Thrips, Mites, Whitefly, Fruit borer	300 (50 + 250)	625	500	5
Cyantraniliprole 16.9% + Lufenuron 16.9% w/w SC					
Rice	Stem borer, Leaf folder	20 (10+10)	50	500	39
Cypermethrin 10 % + Indoxacarb 10 % w/w SC					
Cotton	Jassids, Thrips, Bollworms	50 +50	500	400 – 1000	07
Rice	Yellow stem Borer	25 + 25	250	500	37
	Leaf Folder	37.5+37.5	375		
Cypermethrin 3 % + Quinalphos 20 % EC					
Brinjal	Shoot & Fruit borer	-	350 – 400	500 – 600	07

Cotton	American bollworm,Spotted bollworm, Jassids	-	1000 – 1250	500 – 600	15
Chlorpyrifos 50 % + Cypermethrin 05 % EC					
Cotton	Aphid, Jassids, Thrips,Whitefly, *Spodoptera litura*, Spotted bollworm, Pink bollworm, American bollworm	500 + 50	1000	500 - 1000	15
Rice (Paddy)	Stem borer, Leaf folder	312 + 32- 375 + 38	625 – 750	500 – 700	15
Brinjal	Shoot & Fruit Borer	500+50	1000	500	7
Cabbage	Diamond Back Moth	375+37.5	750	500	5
Chlorpyriphos 16 % + Alphacypermethrin 01 % EC					
Cotton	Spotted bollworm, Pink bollworm, American bollworm	425	2500	500 – 750	15
Clothianidin 3.5%+Pyriproxyfen 8% SE					
Brinjal	Whitefly, Jassid, Thrips and Aphids	44+100	1250	500	3
Cotton	Whitefly, Jassid, Thrips and Aphids	44+100 – 52.5+120	1250-1500	500	60
Deltamethrin 00.72 % + Buprofezin 05.65 % w/w EC					
Rice (Paddy)	Brown plant hopper, Leaf folder	0.78 + 62.50- 0.94 + 75.00	1250 + 1500	500	30
Diafenthiuron 30 % + Pyriproxyfen 8% w/w SC					
Chilli	Mites & Whitefly	300+80	1000	500	3
Cotton	Whitefly	300+80	1000	500	35

Diafenthiuron 47 % + Bifenthrin 09.40 % w/w SC					
Cotton	Thrips (*Thrips tabaci*), Leaf hopper (*Amrasca devastans*),Whitefly (*Bemisia tabaci*), Aphid (*Aphis gossypii*)	293.75 + 58.7	625	500	30
Chilli	Thrips (*Scirtothrips dorsalis*), Aphids (*Aphis gossypii*)	293.75 + 58.7	625	500	07
Dinotefuran 4 % + Acephate 50% w/w/ SG					
Rice	Brown Plant Hopper & whiteBacked Plant Hopper	35 + 400	500	500	28
Cotton	Aphids, Jassids, Thrips & Whiteflies.	22 + 275	880	500	10
Dinotefuran 5% + Ethion 50% EC					
Rice	Brown plant hopper, White backed Plant hopper, Green leaf hopper and Leaf folder	50 + 500	1000	500	33
Dinotefuran 11% + Pymetrozine 36% WG					
Paddy	Brown plant hopper *(Nilparvata lugens)*, White backed plant hoppers (*Sogatella furcifera*)	164.5	350	500	36
Dinotefuran 15 % + Pymetrozine 45% WG					
Rice	Brown Plant Hopper, white Backed Plant	200	333	500	24

	Hopper, Green Leaf Hopper, Rice Ear Head Bug				
Emamectin Benzoate 01.50 % + Fipronil 03.50 % SC					
Chilli	Thrips, Fruit borer	07.5 + 17.5-11.25 + 26.25	500 – 750	500	03 (day) or 48 (Hrs) Re-entry period after each application
Emamectin benzoate 5 % w/w + Lufenuron 40 % w/w WG					
Cauliflower	Diamond Back Moth (*Plutella xylostella*) Fruit borer (*Spodoptera litura & Helicoverpa armigera*)	27(Emamectin benzoate 3.0 + Lufenuron 24.0)	60	500	03
Chilli	Fruit borer (*Spodoptera litura & Helicoverpa armigera*) Thrips (*Scritothrips dorsalis*) Mites (*Polypagotarsone muslatus*)	27(Emamectin benzoate 3.0 + Lufenuron 24.0)	60	500	03
Emamectin Benzoate 1.5% + Profenofos 35% w/w WDG					
Cotton	Whiteflies, Jassids, Thrips, Aphids and Pink Boll Worm	10.5 + 245	700	500	15
Chilli	Yellow Mites, Thrips and Fruit Borer	10.5+245	700	500	7

Maize	Fall armyworm	11.25+262.5	750	500	35
Ethion 40 % + Cypermethrin 05 % w/w EC					
Cotton	American bollworm	400 + 50	1000	500	15
Ethiprole 40% + Imidacloprid 40 % WG					
Rice (Paddy)	Brown plant hopper	37.50 + 37.50	93.75	375	15
	White backed planthopper	50 + 50	125	375	15
Ethiprole 10.7% + Pymetrozine 40% WG					
Rice	Brown plant hopper & White backed plant hopper	40.12+150 to 45.48+170	375-425	375	27
Fenazquin 10% + Bifenthrin 4% EC					
Tomato	Red Spider mite (*Tetranychus urticae*) Whutefly (*Bemisia tabaci*)	125+50	1250	500	5
Tea	Red Spider mite (*Oligonychus coffeae*) Mosquito Bug (*Helopeltis theivora*)	100+40	1000	400	7
Fenobucarb 20 % + Buprofezin 05 % w/w SE					
Paddy (Rice)	Brown plant hopper,Green leaf hopper	400 + 100	2000	500	30
Fipronil 5% + Buprofezin 20% SC					
Chilli	Thrips	37.5+150	750	500	5
	Fruit Borer	50+200	1000		
Cotton	Jassids, Thrips. Aphid & Whitefly	50+200	1000	500	6

Rice	Brown Plant Hopper	25 + 100	500	500	20
	Yellow Stem Borer, Leaf Folder	50 + 200	1000	500	
Flubendiamide 04 % + Buprofezin 20 % w/w SC					
Paddy (Rice)	Yellow stem borer, Leaf folder, Brown plant hopper	35 + 175	175 + 700	500	30
Flubendiamide 8.33 % + Deltamethrin 5.56 % w/w SC					
Chickpea	Pod borer	22.50 + 15	250	500	07
Cucumber	Cucumber beetle,Fruit fly	18 + 12- 22.50 + 15	200 – 250	500	05
Flubendiamide 03.50 % + Hexaconazole 05 % w/w WG					
Paddy (Rice)	Stem borer, Leaf folder	35 + 50	1000	500	20
Groundnut	*Spodoptera litura*	52.5 + 75	1500	500	31
Chilli	*Spodoptera litura* *Helicoverpa armigera*	52.5 + 75	1500	500	10
Flubendiamide 07.5 % + Kresoxim Methyl 37.5 % w/w SC					
Rice	Stem borer & Leaffolder	50 + 250	667	500	30
Tomato	Fruit borer (*Helicoverpa armigera*) Leaf eating caterpillar/Fruit borer (*Spodoptera litura*)	50 + 250	667	500	07
Flubendiamide 19.92 % + Thiacloprid 19.92 % w/w SC					

Chilli	Thrips, Fruit borer	48 + 48- 60 + 60	200 – 250	500	05
Rice	Yellow stem borerLeaf folder	60 + 60	250	500	33
Tea	Mosquito Bug and Semi looper	60 + 60	250	400	7
Fipronil 40 % + Imidacloprid 40 % WG					
Sugarcane	White grub (*Holotrichia consanguinea*)	175 + 175- 200 + 200	437.5-500	1000 – 1250	296
Groundnut	White Grubs (*Holotrichia serrata*)	100 + 100 to 120 + 120	250 – 300	1000	106
Cotton	Jassids and Thrips	50 + 50	125	500	36
Fipronil 04 % + Acetamiprid 04 % w/w SC					
Cotton	Aphid, Jassids, Whitefly	40 + 40	1000	500	30
Fipronil 04 % + Thiamethoxam 04 % w/w SC					
Rice	Brown Plant Hopper,Green Leaf Hopper & White Backed Plant Hopper	44 + 44	1100	500	45
Pyraclostrobin 10% + Fipronil 5% w/v SC					
Rice	Yellow stem borer, Leaf folder, Brown Plant Hopper (BPH), Sheath Blight, Leaf blast	50+100	1000	500	53
Chilli	Thrips, Chilli fruit Borer, Powdery Mildew, Anthracnose/Fruit Rot	50+100	1000	500	7

Fipronil 07 % + Hexythiazox 02 % w/w SC					
Chilli	Mites and Thrips	70 + 20	1000	500	07
Fipronil 15% + Flonicamid 15% WDG					
Cotton	Aphid, Jassid, thrip, whitefly, mealy bug and bollworm	60 + 60	400	500	33
Paddy	Brown plant hopper, green leaf hopper, stem borer and leaf folder	60 + 60	400	500	30
Hexythiazox 3.5% + Diafenthiuron 42% WDG					
Chilli	Mites, Thrips, Jassids, Aphids & White fly	22.75 + 273	650	500	07
Imidacloprid 18.50 % + Hexaconazole 01.50 % FS					
Groundnut	Termites, Thrips, Jassids, Root grubs,Collar rot, Stem rot,Tikka leaf spot & Rust	37 + 3	200	Not applicable	This is used as seed dresser
Wheat	Termites, Aphids,Smut, Rust	37 + 3	200	Not applicable	This is used as seed dresser
Imidacloprid 06 % + Lambda-cyhalothrin 04 % SL					
Paddy (Rice)	Stem borer, Hispa, Plant hopper, Gundhibug	18 + 12	300	500	10
Indoxacarb 5% + Fipronil 5 % W/w SC					
Chilli	Thrips	37.5+37.5 – 50+50	750-1000	500	5
Cabbage	Diamond back Moth	37.5+37.5 – 50+50	750-1000	500	7
Indoxacarb 14.50 % + Acetamiprid 07.70 % w/w SC					

Cotton	Jassids, Whitefly, Bollworms	88.8 – 111	400 – 500	500	30
Chilli	Thrips, Fruit borer	88.8 – 111	400 – 500	500	05
Indoxacarb 10.0% + Thiamethoxam 10.0% WG					
Tomato	Whitefly and fruit borer	75 + 75	750	500	5
Paddy	Brown plant hopper, yellow stem borer and leaf folder	50 + 50	500	50	14
Isoprothiolane 28% + Fipronil 5% EC					
Rice	Stem borer, Brown plant hopper, Green leaf hopper, Whorl maggot	280+50	1000	500	58
Novaluron 05.25 % + Indoxacarb 04.50 % SC					
Tomato	Fruit borer (*Helicoverpa armigera*) & Leaf eating caterpillar (*Spodoptera litura*)	43.31 + 37.13-45.94 + 39.38	825 – 875	500	05
Chickpea	Gram pod borer (*Helicoverpa armigera*)	43.31 + 37.13-45.94 + 39.38	825 – 875	500	9
Soybean	*Spodoptera* spp., *Helicoverpa armigera* and *Semilooper*	43.31 + 37.13-45.94 + 39.38	825 – 875	500	14
Pigeon pea (Red Gram/Arhar/Tur)	Pod borer complex (*Helicoverpa armigera& Maruca ossyp)*	43.31 + 37.13-45.94 + 39.38	825 – 875	500	25

Chilli	Fruit borer complex (*Helicoverpa armigera, Spodoptera litura)*	43.31 + 37.13-45.94 + 39.38	825 – 875	500	7
Black gram	Black gram pod borer complex (*Etiella zinckenella*, *Spodoptera litura* and *Maruca vitrata*)	43.31 + 37.13-45.94 + 39.38	825 – 875	500	14
Rice (Paddy)	Rice leaf folder (*Cnaphalocrosi smedinalis*)	22.97 + 19.69	437.5	500	40
Groundnut	*Helicoverpa armigera & Spodoptera litura*	45.94 + 39.38	875	500	34
Phenthoate 45% + Cypermethrin 6% EC					
Paddy	Yellow Stem Borer, Leaf Folder and Brown Plant Hopper	450+60	1000	500	At the end of the Harvest
Profenofos 40 % + Cypermethrin 04 % EC					
Cotton	Bollworm complex	440 – 660	1000 – 1500	500 – 1000	14
Profenofos 40 % + Fenpyroximate 02.50 % w/w EC					
Chilli	Thrips, Mites, Fruitborer	0.4 + 0.025	1000	500	07
Propargite 50 % + Bifenthrin 5 % w/w SE					
Okra	Mite , White fly &	594 + 59.4 –	1100 – 1150	500	05
	Jassids	621 + 62.1			
Tomato	Mite , White fly & Jassids	594 + 59.4 – 621 + 62.1	1100 – 1150	500	05
Propargite 42 % + Hexythiazox 2 % EC					

Tea	**Red spider Mites**	525 + 25	1250	400 – 500	07
Chilli	Yellow Mite	525 + 25	1250	500	7
Apple	European Red Mite	4.2 + 0.2 (g/10 L water)	10 (ml/10 L water)	10-15 L/tree depending on tree canopy	15
Pyraclostrobin 3.5% + Thiram 15.0% + Clothianidin 22.5% FS					
Ground nut (Seed Treatment)	Aphids, Jassids, termites and white grub	2.45 + 10.5 + 15.75	70 ml / 10 Kg of seed	Not applicable for seed treatment	
Pyriproxyfen 05 % + Fenpropathrin 15 % EC					
Cotton	Bollworms	25 + 75- 37.5 + 112.5	500-750	500-750	14
	Whitefly	60 + 60	600	500	19
Brinjal	Whitefly, Shoot & fruit borer	25 + 75- 37.5 + 112.5	500 -750	500 – 750	07
Okra (Bhindi)	Whitefly, Fruit borer	25 + 75- 37.5 + 112.5	500 – 750	500 – 750	07
Chilli	Whitefly, Fruit borer	25 + 75- 37.5 + 112.5	500 – 750	500 – 750	07
Pyriproxyfen 05 % + Diafenthiuron 25 % SE					
Cotton	Whitefly (*Bemisia tabaci*), Thrips (*Thrips tabaci*), Jassid (*Amrasca biguttula biguttula*), Aphid (*Aphis ossypi*)	250 + 50- 312.5 + 62.50	1000 – 1250	500	35
Pyriproxyfen 10 % + Bifenthrin10 % w/w EC					
Cotton	Whitefly	60 + 60	600	500	19

Pyriproxyfen 8% + Dinotefuran 5% + Diafenthiuron 18% SC					
Brinjal	Whitefly, Jassid, Thrips and Aphids	48+30+108 to 66+41.25+148.5	600-825	500	8-10
Cotton	Whitefly, Jassids, Thrips and Aphids	48 + 30 + 108	600	500	48
Spirotetramat 11.01 % + Imidacloprid 11.01 % w/w SC					
Okra (Bhindi)	Red spider mites	60 + 60	500	500	03
Brinjal	Whitefly, Red spidermites	60 + 60	500	500	05
Mango	Mealy bug	0.018%	0.075%	Spray fluid as required dependin g upon size of tree.	15
Cotton	Mealy bug	75+75	625	500	22
Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC					
Cotton	Jassids, Aphids, Thrips, Bollworms	44	200	500	26
Maize	Aphid, Shoot fly,Stem borer	27.50	125	500	42
Groundnut	Leaf hopper, Leafeating caterpillar	27.5	150	500	28
Soybean	Stem fly, Semilooper,Girdle beetle	27.50	125	500	48
Chilli	Thrips, Fruit borer	33	150	500	03

Tea	Tea mosquito bug, Thrips, Semilooper	33	150	400	01
Tomato	Thrips, Whiteflies &Fruit borer	27.5	125	500	05
Acetamiprid 00.40 % + Chlorpyriphos 20 % EC					
Paddy (Rice)	Stem Borer, Brownplant hopper & White backed plant hopper	10 + 500	2.5	500 - 800	10
Cypermethrin 10 % + Indoxacarb 10 % SC					
Cotton	Jassids, Thrips, Bollworms	50 + 50	500	400 - 1000	07
Chlorantraniliprole 09.30 % + Lambda-cyhalothrin 04.60 % ZC					
Pigeon pea	Pod borer	30	200	500	18
Cotton	Bollworms complex	37.50	250	500	20
Brinjal	Shoot and fruit borer,Jassids	28	200	500	05
Okra	Shoot and fruit borer,Jassids	28	200	500	03
Rice	Stem borer, Leaf folder & Green leafhopper	28 – 35	200 – 250	500	53
Soybean	Leaf worm, Girdle beetle, Semilooper, Stem fly	28	200	500	41
Chlorantraniliprole 00.50 % + Thiamethoxam 01 % w/w GR					
Rice	Stem borer, Leaf folder, Brown plant hopper, Green leafhopper	30.0 + 60.0	6 kg/ha	-	60

Chlorantraniliprole 08.80 % + Thiamethoxam 17.50 % w/w SC					
Tomato	Leaf Miner, Whitefly, Fruit borer	150 (50+100)	500 **Application method-**Soil drench (Single application), **Application time-**8-10 days after transplanting	50-100 ml/plant	36
Rice Nursery	Stem borer, Leaf folder, Green leaf Hopper	180 (60+ 120)	600 **Application method-**Soil drench (Single application), **Applicationtime-** At the time of sowing to before transplanting	100L/ha	116
Thiamethoxam 00.90 % + Fipronil 00.20 % w/w GR					
Ground nut	White grub, Termite	108 + 24- 135 + 30	12.15	106	48
Sugarcane	White grub (*Holotrichia consanguineo*) and Termite (*adontotermes obesus*)	135+30	15	-	296
PUBLIC HEALTH USE					
Pest	**Habitat**	**a.i. (mg/m^2)**	**Formulation (gm)**		**Dilution (Ltr.)**
Alphacypermethrin 05 % WP					
Adult Mosquito	-	25 (2 cycles application to repeat after 3 month)	Dilute 250 gm of Alphacypermethrin5% WP in 10 litres of water tocover 500 sq m area.		250

	-	40 (single cycle application)	Dilute 250 gm of Alphacypermethrin 5% WP in 10 litres of water tocover 500 sq m area.		400
Alphacypermethrin Impregnated long lasting nets 00.667 % w/w (200 mg/m^2) (For Import only)					
Ready to use Impregnated Bed Net		To control mosquitoes under Public Health			
Bifenthrin 10.00%WP					
Adult Mosquito	-	25 (2 rounds of spraying 3 months apart	125	Dilute 125 gm of Bifenthr in 10% WP in 10 liters of water to cover 500m^2 areas.	-
Chlorpyriphos Methyl 40 % EC					
-	Used to control of adult vector mosquitoes				
Cyfluthrin 10 % WP					
Under Public Health Programme (Adult Mosquitoes)	-	25 (2 cycles application to be Repeated after 3 months.	250	Dilute 250 gm of Cyfluthrin 10% WP in 10litres of water to cover 500 m^2 areas.	
	-	40 (single cycles application)	400	Dilute 400 gm of Cyfluthrin 10% WP in 10litres of water to cover 500 m^2 areas.	
DDT 50 % WP					
Adult mosquitoes	-	1-2gm	-	-	-
Deltamethrin 00.15 % + Piperonyl 00.55 % EC					

Adult mosquitoes	-	Mosquitoes control under Public Health	-	-	-
Deltamethrin 01.25 % w/w or 01.00 % w/v EC					
Insect	**Method of Applicatio n**	**Dosage/ha.**			
		a.i. (gm)	**rmulation (ml)**	**Dilution in diesel Oil(Litre)**	
Adult Mosquitoes	Thermal fogging	0.50	50	10	
	Ultra low volume application	0.50	50	0.50	
Deltamethrin 02.50 % WP					
Adult Mosquitoes	For public healthpurpose only	625-1250 mg/50 m^2	25-50 g/50 m^2	1.5-2.5 Ltr./50 m^2	
Deltamethrin impregnated Bed Net 55 mg/m^2 (For Import only)					
Ready to use insecticide Impregnated Bed net			Mosquitoes control under Public Health		
Diflubenzuron 02 % GR					
Name of the insect pest	**Habitat**	**Dosage/ha (Kg.)**	**-**	**Waiting period**	
Mosquito larvae	Water bodies (Cess pits, Drains, Disused wells and Pools)	1.25-3.0	-	-	
Fenitrothion 40 % WP					
Common name ofpest	**a.i. (gm)**	**Formulation**	**-**	**Dilution in water (litres)**	
Mosquitoes & files	400	1000	-	80	
Lambda Cyhalothrin 9.7% w/w CS					
Purpose and Target Pest	**Spray Deposit Rate**	**Gram a.i dose**		**Dose per 500 sq.m. meter surface area**	

	(mg a.i./ sq.m meter)	Spray Deposit Rate (g.a.i/sq. meter)	g. a.i per 500 sq. mtrs	Formulation Dose (ml)	Water Volume (litre)
For public health use for controlling mosquitoes transmit malaria *(Anopheles culicifacies)*	25	0.025	12.5	1.25	10

Lambda-cyhalothrin 10 % WP

Pest	Use	Dosage 500 m^3 floor area		Dilution in water (Litre)
		a.i. (gm)	Formulation (gm)	
Mosquitoes	For public health only	7.50 - 15	75 - 150	10
Mosquito, housefly,cockroach	For household use	10	100	10

Malathion 25 % WP

Crop	Common name of the pest	Dosage/m^2			Waiting Period (days)
		a.i. (gm)	Formulation (gm)	Dilution in water (Liter)	
-	Adult mosquitoes	02/m2	08/m^2	100	Repeat after 6-8 weeks

Novaluron 10 % EC

Place of Application	Insect	Dosages		Waiting Period
		a.i. (gm)	Formulation (ml)	
Clean surface water	*Anopheles stephensi, Aedes aegypti*	30	0.03 ml/m^2	Every 12 weeks
Polluted surface water	*Culex quinquefasciatus, Anopheles subpictus*	60	0.06 ml/m^2	Every 6th week and 12th week

Pyriproxyfen 00.50 % GR

Breeding habitats	Dosage/ha	Interval between

	a.i. (gm)	Formulation (Kg.)	application
Clean water/Domestic containers	10 (0.01ppm)	2	08 weeks
Polluted/ Peri-domestic breeding habitat	20 (0.02ppm)	4	08 weeks

Pirimiphos methyl 50 % EC

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

Sulfoxaflor 21.8 % w/w SC

Crop	Target pest	Dosage/ha		Water (l/ha)	Waiting period
		a.i. (gm/ha)	Formulation (ml/ha)		
Rice	Brown Plant Hopper (*Nilaparvatha Lugens*)	90	375	500	14
	White backed plant hopper (*Sogatella furcifera*)	90	375	500	
Cotton	Jassids (*Amarasca bigutella*),	75	313	500	
	Aphid (*Aphis gossypi*)	75	313	500	
	Whitefly (*Bemmissia tabaci*)	90	375	500	
	Cotton mealy bug (*Phenococcus spp.*)	90	375	500	

Temephos 50 % EC

Regime of application	Common name of pest	Dosage/ha		Waiting period (days)
		a.i. (g)	Formulation (ml)	

Mosquito larval treatment area, ponds, swamps, drainage, ditches,canals and other, Breeding areas.	Mosquitoes larvae	37.5 - 125	75 - 250	200
HOUSEHOLD INSECTICIDES				
Alphacypermethrin 0.1 % w/w (RTU)				
Common name of pest		**Dose/m^2 (a.i./mg)**		**Formulation (ml)**
Cockroaches, Adult mosquitoes, Adulthouseflies		25 - 50		25 - 50
Alphacypermethrin 00.50 % Chalk				
Ready to use household insecticides			To control cockroaches	
Allethrin 00.50 % Coil				
Ready to use household insecticides			Used to control of house hold flying insect like houseflies and mosquitoes	
Allethrin 00.50 % Mosquito Coil				
Ready to use household insecticides			To control of adult mosquitoes	
Allethrin 00.20 % Coil Adult Mosquitoes				
Ready to use household insecticide			To control of mosquito	
Allethrin 00.50 % Coil Adult Mosquitoes				
Ready to use household insecticide			To control of mosquito	
Allethrin 04 % Mat Adult Mosquitoes				
Ready to use household insecticide			To control of mosquito	
Allethrin 05 % Aerosol				
Ready to use household insecticide			To control of mosquito	
Allethrin 03.60 % LV				
Ready to use household insecticide			To control of mosquito	

Bifenthrin 00.05 % Mosquito coil (8 hours Min.)			
Ready to use household insecticide		Used to control adult mosquitoes	
Cyfluthrin 10 % WP			
Common name of pest	**Dosage**		**Use**
	a.i. in mg/m^2	**Formulation (gm/m^2)**	
Adult mosquitoes, Cockroaches, Houseflies & Mosquitoes in house	25	0.250 for each spray	100 gm of Cyfluthrin 10% WP to be diluted in 8 liters of potable water 40 gm of Cyfluthrin 10% WP to be diluted in 10% litres water.
	20	0.200 for each spray	100 gm of Cyfluthrin 10% WP to be diluted in 8 liters of potable water 40 gm of Cyfluthrin 10%WP to be diluted in 10% litres water.
Cyfluthrin 10 % WP			
For house hold use Cockroach HouseflyMosquitoes	25-40	250 - 400	Dilute 250-400 gm of Cyfluthrin 10% WP in10 litres of water to cover 500 m^2 areas.
Chlorpyriphos 02 % w/w EC			
Ready to use household insecticides		Used for protecting wood from the attack of termites & borers.	
Chlorpyriphos Methyl 40 % EC			
Used to control adult mosquitoes			
Cyphenothrin 07.20 % VP w/w (For use by pest control operator only)			
American Cockroaches & German Cockroaches		To control of American Cockroaches & German Cockroaches (In house)	
Cypermethrin 03 % Smoke Generator			

Ready to use household insecticide.			To control Cockroaches in house, hotels & warehouse.	
Cypermethrin 01.00% Dust				
Ready to use household insecticide.			To control Cockroaches in house.	
Cypermethrin 01 % Chalk				
Ready to use household insecticide.			To control Cockroaches in house.	
Cyfluthrin 05 % EW				
Ready to use	Cockroaches, Houseflies, mosquitoes, in-house. Bed net impregnation	8.0 ml	1.0	50 ml diluted solution/m^2
Cyfluthrin 00.025 % + Transfluthrin 00.04 % Aerosol				
Ready to use			Used for controlling /repelling Mosquitoes.	
			Houseflies & cockroaches in homes.	
Transfluthrin 1 % w/w + Cypermethrin 0.2 % w/w Spray				
Ready to use house hold			Mosquitoes (*Culex quinquefasciatus, Aedes aegypti*), Houseflies (*Musca domestica*), Cockroaches (*Periplaneta americana, Blatella germenica)* and Ants(Red ants)	
Deltamethrin 02.50 % Flow				
Name of insectpest	**Type of use**	**Dosage /m^2 area of bed net**		**-** **-**
		a.i.	**Formulation**	
Adult Mosquitoes	For impregnation of polyester , nylon and cotton bed net	25 mg	1 ml	- -
Deltamethrin 02.50 % WP				
Name of insectpest	**Habitat**	**Dosage /m^2 area of bed net**		**-**
		a.i.	**Formulation**	**Dilution in water (Liter)**

Lesser grain borerRice moth, Saw toothed grain beetle, Red flour beetle, Khapra beetle, Almond moth	Grain and seeds instacks	30 mg/m^2	1.2 g/m^2	1 Liter for 30 m^2	-
Rice weevil	Grain and seeds instacks	30 mg/m^2	1.2 g/m^2	1 Liter for 30 m^2	-
	Walls, Ceilings &Floor	30 mg/m^2	1.2 g/m^2	1 Liter for 30 m^2	-
Diflubenzuron 02 % Tablets					
Name of pest	**Habitat**	**Dosage**		**Dilution in water**	
Mosquitoes larvae	Unused Coolers	0.5-1.0 ppm		0.5-1.0 tablet in 40 liter water	
Diflubenzuron 0.1% W/W Termite Bait to be used by pest control operators only					
Termites	-	-		Bait mixed with water in 1:2 ratio	
Diflubenzuron 20 % + Deltamethrin 02% SC					
Name of the insectpest	**Habitat**	**Dosage/ha (kg.)**		**Waiting period**	
House fly maggot	Poultry Manure & kitchen garbage	1.50-2.00 ml/liter water (5 litreof water /10 m^2		-	
Diflubenzuron 25 % WP					
Name of pest	**Habitat**	**Dosage**		**Dilution in water**	
Mosquitoes larvae	Clean surface water	25 - 50 g a.i./ha		-	
	Polluted surfacewater	50 - 100 g a.i./ha		-	
	Sewage pits, Soak pits, Latrines, Septictanks	01.0 mg a.i./liter		-	

House fly maggots control	In poultry manuregarbage, filth & dumping areas	5.0 gm/10 m^2	05 liters water/10m^2
Dinotefuran 0.5% RB Gel			
Ready to use house hold		Used for controlling American cockroach (*Periplaneta americana*) and German Cockroach (*Blattella germanica*)	
Deltamethrin 00.05 % + Allethrin 00.04 % w/w EC			
Common name of house hold insect		**Dosage/ha**	
		g a.i.	**Formulation (ml)**
Cockroaches, House flies, Mosquitoes		12.5 - 25.0	25 - 50
Deltamethrin 02.50 % + D-trans allethrin 02 % w/w EC			
Insects		**Dosage/m^2**	
		a.i. (mg)	**ity of solution(ml)**
Cockroach, Houseflies, Mosquitoes		12.5 - 25.0 + 10 - 20	25 - 50
Deltamethrin 00.02 % + Allethrin 00.13 % w/w			
Ready to use		To control cockroaches, mosquitoes andflies	
Deltamethrin 00.50 % w/w Chalk			
Ready to use household insecticide		To control Cockroaches, ants and bedbugs	
D-Trans Allethrin 00.10 % + Permethrin 00.03 % + Imiprothrin 00.02 % Aerosol w/w (all InsectKiller Aerosol)			
Ready to use		ockroaches, mosquitoes andhouse flies	
Deltamethrin 01 % RTU			

Ready to use household insecticide	To control Cockroaches in house. One litre of insect control of paints sufficient for an area of 22 sq. meters. Two coats of insect control paint are recommended giving 18 hours of drying between the coats.
D-Trans Allethrin 02% Mosquito Mat	
Ready to use household insecticide.	To control Adult Mosquitoes in house.
D-Trans Allethrin 00.10 % w/w Mosquito Coil	
Ready to use household insecticide.	To control and repel of Adult Mosquitoes in the house.
D-Allethrin 21.97 % w/w Mosquito Mat.	
Used to control Adult Mosquitoes	ea like Park, Garden and FarmHouses etc. only.

Benzoate 00.10 % w/w Gel

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

German Cockroach (*Blattella germanica*)	0.001 g a.i./m^2	1.0 gm of Gel Bait/m^2 (1-2 spots)	Place "Ready to Use Gel Bait" (RB) foruse as spot or cracks and crevices treatment in residential institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners, areaswhere cockroaches forage or crack andcrevices, holes, hidden surfaces, any otherplaces where cockroaches are typically known to hide etc. for the control of cockroaches.

Fenitrothion 20 % OL			
Name of Pest	**Dose (g a.i.)**	**rmulation (ml)**	**Instruction for use**
edbug (*Cimex* spp.)	2	10	Take 10 ml of BILFOL 20 and dilute in 200 ml of kerosene. Apply spot spray thoroughly in all bed bug infested areas like charpoy furniture etc. taking care that the spray is the directed into cracks and crevices where bedbugs are hiding. 200 ml of spray wash will approx cover 10 m^2 it can also be applied with a brush where ever bedbugsoccur.

Fipronil 00.03 % & 0.5 % Gel	
Ready to use household insecticide	ntrol of German & AmericanCockroaches.

Fipronil 00.05 % GEL		
House hold	**Common name of the pest**	**Dosage/m^2**

House hold	American Cockroach (*Periplanata mericana*), German cockroach (*Blattella germanica*)	0.03 g (in a bait gun), 3-4 spot/m^2
House hold	German cockroach (*Blattella germanica*)	*(100 mg spot= approx 5 mm diameter)* Low Density – 1 spot / M^2 High Density – 2 spots / M^2
	American Cockroach (*Periplanata mericana*)	Low Density – 2 spots / M^2 High Density – 3 spots / M^2
Imiprothrin 00.10 % + Cyphenothrin 00.13 % w/w		
Ready to use		Used for controlling cockroaches in homes.
Imiprothrin 00.70 % + Cypermethrin 00.20 % w/w Aerosol		
Ready to use household insecticides		Used against Cockroaches.
Imiprothrin 00.05 % + Cypermethrin 01 % CL		
Ready to use		Used for controlling cockroaches in houses.
Imidacloprid 00.03 % w/w Gel		
Species		**Recommended Dose**
Pharaoh ant (*Monomorium pharaonis*), Small black ant (*Monomorium indicum*), Crazy ant (*Paratrechina longicomis*),Ghost ant (*Tapinoma melanocephalum*)		Low infestation level (one spot of 200 mg/m^2 of infested area). Moderate to high infestation level (one spot of 300 mg/m^2 of infested area).
Scoring of ant activity will be done based on the following: Low activity=1-50 ants passing from a given point in the time period of one minute. Medium activity=51-200 ants passing from a given point in the time period of one minute. High activity= 201 ants passing from a given point in the time period of one minute.		
Imidacloprid 02.15 % w/w Gel		

Ready to use household insecticide		trol of German & AmericanCockroaches
Imidacloprid 21 % + Beta-cyfluthrin 10.50 % w/w SC		
Name of Insect pests	**Places**	**Dosage**
American Cockroaches,German Cockroaches	Private Houses, Factories, Offices, Market places, Restaurants, Hotels, Shops, Ships, Hospital etc.	Diluter 04 ml of Imidacloprid 21.0% w/w + Beta-cyfluthrin 10.5% w/w SC with 01L of water. Apply 50 ml of this solution to spray per square meter area or apply 01 L of this solution to cover 20 square meter area
Bed Bug	Hospitals, Houses, Commercial establishments, Hotels, Dormitories, Old age Homes, Hostels, etc.	
Lambda-cyhalothrin 00.50 % Chalk		
Ready to use household insecticides		Used to control Cockroaches.
Lambda-cyhalothrin 02.43 % CS		

Purpose and target pest	**Dosage/m^2 ofnetting**		
	a.i. (mg)	**Concentration of spray fluid**	**Quantity of spray fluid(ml)**
Impregnation of bed nets to prevent attack from mosquitoes	10.0	0.05%	1000 (depending on the type of the net)

Lambda-cyhalothrin 02.43 % CS		
Common Name of pest	**Dosage**	
Adult mosquitoes, Adult house flies,Cockroaches	20 - 30 mg/m^2	10-15 ml/litres of water to cover 50 m^2 area
Lambda-cyhalothrin 02.43 % CS		
Target insect	**Dosage**	
	Mg a.i./m^2	**Method of application**

Non-porous surfaces – Mosquitoes, Houseflies & Cockroaches	12.50	Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m^2 on non porous & @ 50 ml/m^2 on porous surfaces.
Porous surfaces – Mosquitoes House flies& Cockroaches	25	Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m^2 on non porous & @ 50 ml/m^2 on porous surfaces.

Lambda-cyhalothrin 02.43 % CS				
Name of pest	**Dosage/m^2**			
	a.i. (mg)	**rmulation (ml)**	**Dilution in water**	
Cockroaches	50	1	Dissolve 500 ml of formulated material in 10 litre water to cover 500 square meter area.	
Housefly, Adult mosquitoes	0.2	0.004	Dissolve 4 ml of formulated material in 20 litre water to cover 1000 square meter area.	
Indoor				
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				
Anopheles stephensi, Culex quinquefasciatus, Aedes aegypti	3.5	70	Dissolve 70 ml Formulation inkerosene to cover 1 hectare area.	
Target Pest	**Active Ingredient Dose (g a.i.)**	**Formulation Dose (ml)**	**Method of application (water volume)**	**Application Usage**
Houseflies (*Musca domestica*)	0.375 – 0.5 g a.	15 – 20 per	**For Low Pest**	For use as

Mosquito (*Anopheles* spp.) American Cockroaches (*Periplaneta Americana*) German Cockroaches (*Blattella germanica*)	i. per Litre water (15 – 20 mg. a. i.per square meter)	litre water	**Infestation (Maintenance Rate)** Mix 15 ml of the product in one litre ofwater and spray the solution uniformly @40 ml per square meter. **For High Rate Infestation** **(Cleanout Rate)** Mix 20 ml of the product in one litre of water and spraythe solution uniformly @ 40 ml per square meter.	indoor or outdoor as asurface crackand crevice or spot spray treatment in residential, institutional, commercial and industrial areas / establishments etc.

Anopheles stephensi, *Culex* q*uinquefasciatus*, *Aedes aegypti*	0.5	0.01	Dissolve 5 ml of formulated material in kerosene to cover 500 square meter area.
Outdoor			
Anopheles stephensi, Culex quinquefasciatus, Aedes aegypti	3.5	70	Dissolve 70 ml Formulation in kerosene to cover 1 hectare area.
Malathion 02 % House Hold Spray			
Ready to use		To control of Bed, Bugs, Flies, Ants, Gnats,Mosquitoes, Moths and Cockroaches in houses.	
Metofluthrin 00.005 % (Mosquito Coil)-Min. 07 Hrs. Burning time			
Ready to use household insecticide.		To control of mosquitoes in houses.	
Metofluthrin 00.005 % (Mosquito Coil)-Min.12 Hrs.			
Ready to use household insecticide.		To control of mosquitoes in houses.	

Metofluthrin 0.32 % Liquid Vaporizer				
House hold		for Mosquitoes		
Novaluron 10 % EC				
Clean surface water	*Anopheles stephensi* *Aedes aegypti*	30	0.03 ml/m^2	-
Polluted water	*Culex quinquefasciatus* *Anopheles subpictus*	60	0.06 ml/m^2	-
Permethrin 02.00% (Olyset@ Net) w/w for Import only				
Ready to use household insecticides		For control of mosquitoes both indoors andoutdoors. After unpacking and before usingthe new bed net, keep it in and open place for 12 hrs away from the sunlight.		
Propetamphos 01 % Spray				
Ready to use household insecticide		To control of Cockroaches, Bed bugs, Flies,fleas, Mosquitoes & Silverfish.		
Propoxur 00.75 % + Cyfluthrin 00.025 % Aerosol				
Ready to use household insecticide		Cockroaches, Mosquitoes & Houseflies		
Propoxur 20 % EC				
Common name of pest	**Dose (g a.i.)**	**rmulation (ml)**	**Dilution in water (litres)**	
Flying insect- Mosquitoes, Files, Cockroaches , Bed bugs, Flash, Tickscrickets , Woodlice , Mite, Silver fish,Spider, Ants etc.	200	1000	40	
Pirimiphos-methyl 01 % Spray				
Location	**Pest**	**Dosage**	**re period (min.hrs.)**	
Spot spray inhouses	Cockroaches , bed bugs, flea etc.	100 ml/1 m^2	01	
Space spray inhouses	Mosquitoes, houseflies	50 ml/100 m^3	01	

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

Prallethrin 02.40 % w/w Liquid Vaporizer	
Ready to use household insecticide.	Used to control of Mosquitoes.
Renofluthrin 0.025% w/w Mosquito Coil	Used to control adult mosquitoes of *Aedes aegypti*, *Anopheles stephensi* & *Culex quinquefasciatus*
S-Bioallethrin 02.40 % Mosquitoes Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes.

Thiamethoxam 00.01 % w/w Gel Bait			
Common Name of the Insect/Pest	**Dose (g a.i.)**	**ɔrmulation Dose**	**Application/Usage**
Black Carpenter Ants (*Camponotus* spp.)	0.0001 g.a.i. per spot (2-4 spots per square meter)	1.0 gm of gel bait per spot (2-4 spots per square meter)	Locate the ant trails or location where ants are most active. Place" Ready to Use Gel Bait" (RB) for controlling ants for use as spot or cracks and crevices treatment in residential, Institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners areas where antsforage or crack and crevices, holes, hiddensurfaces any other places where ants are typically known to hide.

Transfluthrin 0.08 % w/w Aerosol	
Ready to use household insecticide	Used to control in household Mosquitoes(*Aedes aegypti, Culex quinquefasciatus*) and Housefly (*Musca domestica*).
Transfluthrin 0.15 % w/w Mosquito Coil	
Ready to use household insecticide	To control / repel mosquitoes in houses
Transfluthrin 00.88 % & 01.60 % Liquid Vaporizer	

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

Ad-hoc approval of molecules for Fall Army Worm (FAW) up to 30.06.2023

Sr. No.	Molecule	Dose/ha (ml/g a.i.)
1	Chlorantraniliprole 9.3 % + Lambda-cyhalothrin 4.6 %ZC	35 (23.42 + 11.58) g.a.i/ha
2	Cyantraniliprole 19.8 % + Thiamethoxam 19.8 % FS	2.38 g.a.i/kg seed (1.19+1.19)
3	Spinetoram 11.7 % w/w SC	30 g.a.i/ha
4	Chlorantraniliprole 18.5 % SC	40 g.a.i/ha
5	Emamectin benzoate 5 % SG	200 g a.i./ha
6	Emamectin benzoate 5 % + Lufenuron 40% WG	36 g.a.i/ha
7	Thiodicarb 75 % WP	750 g.a.i/ha
8	Novaluron 5.25 % + Emamectin benzoate 0.9 % w/wSC	78.75+13.5 g.a.i/ha
9	**Bio-pesticide as below** *Metarhizium anisopliae, Metarhizium rileyi* *(Nomuraea rileyi), Beauveria bassiana, Verticilliumlecanii*	1 × 108 CFU/g @ 5 g/litre whorl application. Repeat after 10 days if required.
10	*Bacillus thuringiensis* ver. *Kurstaki*, NPV	@ 2 g/l (or) 400 g/acre.

Recommended chemicals by FAO for Locust Control

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

Ad-hoc approval of molecules for Pink Stem Borer/Army worm in Wheat for (N – W India) Punjab state only

(Valid up to 31.10.2023)

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

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Major Uses of Pesticides

(Registered under the Insecticides Act, 1968)

(Based on certificate issued)

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

PLANT GROWTH REGULATORS (PGR)

Plant Growth Regulators (PGR)

APPROVED USES OF REGISTERED PGR

PLANT GROWTH REGULATORS (PGR)

Name of PGR & approved Crops	Time of application / purpose	Dosage /ha		Dilution In Water (Litres) / Preparation of solution	Waiting period / PHI between last application & harvest (days)
		a.i. (ppm/gm/ %)	Formu-lation (ml/gm/Ltr/kg/%)		
Alpha Naphthyl Acetic Acid 4.5% SL (Na salt)					
Tomato	At the time of flowering two spray.	45ppm	-	-	-
Chillies	1st spray during flowering & 2nd spray 20 -30 days later.	10ppm	-	-	-
Mango	1st spray when tender fruits one of pea size. 2nd spray when fruits one of marble size (about 2 cm diameter) To control Mango malformulation- Before fruit bud differentiations approx.3 months before flowering	20ppm 200ppm	- -	2 ml in 4.5litre. 20 ml in 4.5 ltrs.	- -
Grapes	(a)To increase size & weight of berries. – I st sprays at pruning time. – 2nd spray when flowering shoot appear (b)To control berry drop (spray on matured grape bunches) 10-15 days before harvesting.	10ppm 100ppm	- -	2 ml in 49 ltrs. 20 ml. in 49 ltrs.	- -

Pineapple	**(a)**To induce flowering and uniform growth (b)To increase fruit size. I To delay maturity - Two weeks before harvest.	10ppm (In dry weather half strength solution i.e. 5 ppm may be used) 199ppm 100ppm	- - -	1 ml in 4.5 ltrs (pour 30-50 ml of solution in to the head of each plant) 10 ml in 4.5 ltrs. (spray to wet the whole plant) 10 ml in 4.5 ltrs.(Wet the whole fruit 2 weeks before harvest.)	- - -
Cotton	To prevent shedding of flower squares & bolls (3 sprays at 15 days interval from square formation stage	10-20 ppm.	222-444 ml	1000 ltr.	
Chlormequat Chloride 50% SL					
Cotton (American)	Square formation of early flowering (one spray)	20-40 gm a.i/ha	40-80 ml/ha	High Volume 375-600 Low volume 125-187	-
Cotton (Deshi)	Square formation of early flowering (one spray)	75 a.i. gm/ha	150 ml/ha	High volume 375-600	-
Brinjal	Seed soaking for 24 hours (before sowing)	50ppm	100ppm	1ml/ 10L water	-
Potato	Dipping of cut pieces for 10 minutes	100ppm	200ppm	2.0ml/ 10 L water	
Grapes 1st spray: 2nd Spray: 3rd Spray:	3-5 leaf stage after April pruning 5-7 leaf stage after April Pruning 3-5 leaf stage after October Pruning	500 g a.i./ha 1000 g a.i./ha	1000ml 2000 ml	1000L	91

		250 g a.i./ha	500ml		
Chlorpropham 50% HN					
Potato	Antisprouting agent for stocked potatoes under cold storage condition Temp= 10±2°C R.H.= 90±5%	18-20 gm/MT	36-40 ml/MT	Formulation is to be applied as such with fogging applicator	20
Chlorpropham 55.37% w/w (624 g/l) HN (Gro-Stop Electro)					
Potato	Anti-sprouting agent for stocked potatoes under cold storage condition Temp= 10±2°C R.H.= 90±5%	18-20 gm/MT	29-32 ml/MT	Formulation is to be applied as such with fogging applicator	20
Ethephon 10% Paste					
Rubber	For renewed bark 4 times bark swabbing. During March, August, September & November below the tapping panel after 4 cm scrap of the bark /above the tapping panel/on the tapping cut after removing the lace.	10%	50 ml. formulation per tree directly used without dilution.	-	-
Ethephon 39 % SL					
Mango	a)For breaking alternate bearing tendencies	200 ppm	770-1025	1500-2000	26 ml in 10 lit of water
	b)For Flower induction in juvenile mango	1000 ppm	3846-5128	1500-2000	5ml in 10 lit of water
	c)Post-harvest treatment (For Uniform Ripening)	500 ppm	1923-2564	1500-2000	26 ml in 10 lit of water
Pine apple	For flower induction	100 ppm	385-513	1500-2000	13 ml in 10 lit of water
Coffee (Arabica)	For uniform ripening of berries, One spray at fly pricking stage, when 10-15% berries are ripened.	192 ppm	738-985	1500-2000	5 ml in 10 lit of water
Coffee (Robusta)	For uniform ripening of berries, one spray at fly pricking stage, when 10-15% berries are ripened.	96 ppm	215-287	1500-2000	2.5 ml in 10 lit of water

Tomato	Post-harvest treatment (for Uniform Ripening)	2500 ppm	-	-	65 ml in 10 lit of water
Rubber	Yielding rubber latex	1000 ppm	0	1500-2000	2.5 ml in 10 lit of water
Pomegranate	Defoliation for better flowering and fruit yield	390-48.5 gm	1000-1250 ml	500	135 days (2-2.5 ml/lit water)
Forchlorfenuron 0.1% L (w/v)					
Grapes	Two dipping applications. 1st When size of berry is 3-4 mm diameter and 2nd When size of berry is 6-7 mm diameter,	2ppm.	1 ltrs.	500	60 days
Forchlorfenuron 0.12% EC w/w					
Grapes	To enhance the fruit size in seedless grapes single directed spray on berries at 4-6 mm berry size	3 ppm	1.5 liter	500 liter/ha.	20
Pigeonpea (Tur)	Single directed spray at the time of 100% flowering	2.5ppm	1.125 Litres/ha	Spray Volume-450 l/ha. Mix 250 ml of Sitofex in 100 l water	30 days
Gibberellic Acid Technical (90% w/w)					
Grape fruit	a) At full bloom (for fruit set)-single spray b) Ist week of May (For June fruit drop) –single spray c) Ist week of October (For pre-harvest drop)-single spray	500-1000 ppm	-	-	-
Sweet cherry	When more than 60% buds opened fully.	40-80ppm	-	-	-
Grapes	Two directed spray Ist at full bloom & 2nd at fruit set stages.	100ppm.	-	-	-
Grape (Seedless)	Two blanket spray at Ist full	15-60ppm	-	-	-

	bloom & 2nd at post bloom stage.				
Brinjal	a) seed treatment (dipping) b) When 4 weeks old -weekly spray	10ppm 50ppm	- -	- -	- -
Gibberellic Acid 0.001% L					
	To increase the yield and quality of the crop produce				
Paddy	Short duration varieties 20-25DAT Medium duration varieties 30-35 DAT Long duration varieties 40-45 DAT	0.018gm	180 ml	450-500	-
Sugarcane (Planted crops)	a) First spray 40-45 DAP b) Second spray 70-80 DAS	0.018gm	180 ml	450-500	-
Cotton	a) First spray 40-45 DAP b) Second spray: At the time of ball formation	0.018gm	180 ml	450-500	-
Groundnut	a) First spray at flowering (30-35 AS) b) Second spray at the time of flowering	0.018gm	180 ml	450-500	-
Banana	a) First spray 3rd month b) Second spray 5th month Third spray at the time of fruit formation	0.027gm	270 ml.	450-500	-
Tomato / Potato / Cabbage / Cauliflower	a) First spray 45 DAS b) Second spray 65 DAS	0.018gm	180 ml.	450-500	-
Grapes	**a)** First spray 30-35 days after pruning **b)** Second during the match head stage	0.018gm	180 ml.	450-500	-

Brinjal, Bhindi	a) First spray 34 DAP b) Second spray 70 DAP c)Third spray 105 DAP	0.045 gm	450 ml.	450-500	-
Tea	Five spray at monthly interval.	-	270ml	450-500	-
Mulberry	First spray: 15-20 days after harvest	0.045	450	450-500	
Gibberellic Acid 0.1% GR					
Rice	Broadcast (Manual by hand with rubber gloves or through mechanical dispenser) at 15-20 days after transplanting	12.5-15 g	12.5-15.0 kg	-	76
Gibberellic Acid 0.186% SP					
Cotton	to improve fiber quality one spray at square formation or early flowering stage	142ppm.	71 gm	450-500	-
Gibberellic Acid 40% WSG					
Grape	Pre Bloom- Elongation	40	50	500	-
	Fruit Setting Thinning				
	6-7mm berry size-enlargement				
Rice	20-25 Days After Transplanting	20-25	20-62.5	500	
	At Panicle emergence	20-25	50-62.5	500	
Wheat	20-25 Days After sowing	10-15	25-37.5	500	-
	10% ear emergence				
Maize	Knee high stage (25-30 DAS)	20	50	500	-
Hydrogen Cynamide 50% SL (Import)					
Grapes	For breaking bud dormancy Single application as spray Just after pruning ,	1-1.5%	2-3%	375-500	90-120 days
Hydrogen Cynamide 50% SL (Indigenous manufacture)					
Grapes	For breaking dormancy of fruiting buds Just after pruning, single application by swabbing.	1.5%	1.5 ltrs.	Mix with 200-300 ml. of product in 10 litres of water.	120 days

Hydrogen Cyanamide 49% AS (Import)					
Grapes	For breaking bud dormancy One directed spray, just after pruning.	1.0-1.5%	2-3%	50 ltrs.	110 days
Sugarcane	Dipping of setts	0.50	1.00%	Mix 1000 ml of the product per 100 litres of water	319 days
Mepiquat chloride 5% AS					
Potato	One spray 45 DAP To restrict the excessive vegetative growth of potato and increasing its yield	62.5-75 g	1.25-1.50 ltr	500-600	60-90 days
Cotton	Single spray at flowering stage to control of excessive vegetative growth and to increase crop yield in cotton	50-62.5 g	1.00-1.25 ltr	500-600	57
Groundnut	Single spray at flowering stage to control of excessive vegetative growth and to increase crop yield in groundnut	50-62.5 g	1.00-1.25 ltr	500	60
Chickpea	Single spray at flowering stage to control of excessive vegetative growth and to increase crop yield in chickpea	62.5 g	1.25 ltr	500	56
Soybean	Single spray at flowering stage to control of excessive vegetative growth and to increase crop yield in soybean	62.5 g	1.25 ltr	500	54
Brinjal	Single spray at flowering stage to control of excessive vegetative growth and to increase crop yield in brinjal	62.5 g	1.25 ltr	500	7
Onion	Single spray at flowering stage to control of excessive	62.5 g	1.25 ltr	500	48 (bulb) 7 (green leaves)

	vegetative growth and to increase crop yield in onion				
1-Methylcyclopropene 3.3% VP (Vapour Releasing Product)					
Apple fruit (Under ambient and cold condition)	Applied as soon as possible after harvest, within a maximum of 7 days after harvest on fruits kept at ambient and cold temperature away from source of external ethylene.	2.24 mg	68 mg (1000 PPB)	-	1
Paclobutrazol 23% w/w (25% w/v) SC (Import Source:- ZENECA Agrochemicals, Fernhurst, Haslemere, Surrey, UK)					
Mango	To reduce the inter node length of new shoots and earlier formation of terminal bud. Favourably, influence the fruit bud production, fruit colour and harvest yield 7-15yrs old 16-25 yrs.old >25 yrs old Application after the harvest of fruits (Any time from July to Oct)	 - - -	 15 ml. Per tree 20 ml. Per tree. 25-40 ml. Per tree (Note: If the soil is sandy the rate of application may be reduced to 75 % of the recommended. For repeat use the rate of application can be 50 to 75 % of	Recommended quantity diluted in clean water of 5-10 lit. and applied in furrow 5 to 10 cm deep about 30 cm away from the trunk. Fill up with soil after application or apply as soil – collar drench.	-

			the rate used in the 1st year)		
Paclobutrazol 23% SC (W/W) / (25% W/V) **(Import Source:- PGR International Pty. Ltd., 4 Dairy road, Werribee Vic. 3030 Australia)**					
Mango	To reduce the inter node length of new shoots and earlier formation of terminal bud. increase fruit bud production, and improve fruit yield texture 16-25 yrs old Application after the harvest of fruits (Any time from July to Oct)	4.0 gm per tree - -	16 ml. Per tree (Note: If the soil is sandy the rate of application be reduced to 75 % of the recommended. For repeat use the rate of application can be 50 to 75 % of the rate used in 1st year)	Make a round furrow about 5 to 10 cms deep at least 30cm away from the trunk. Mix the recommended dose with about 5-10 litres of clean water and apply to the furrow. Fill up with soil after application and irrigate once or twice a month subsequently	Waiting Period-NIL as the chemical is applied 8 months before harvest of fruits
Paclobutrazol 23% SC (w/w) / (25% w/v) (Indigenous manufacture)					
Mango	To reduce the inter node length of new shoots and earlier formation of terminal bud. Favourably, influence the fruit bud production, fruit colour and harvest yield 7-15 yrs old 16-25 yrs old	 3.45 4.6	 15 ml per tree 20 ml per tree	Recommended quantity diluted in clean water of 5 litres and applied in furrow 5 to 10 cm deep about 30 cm away from the trunk. Fill up with soil after application or apply as soil – collar drench.	-

	>25 yrs old Application after the harvest of fruits (Any time from July to Oct)	5.75-9.2	30 ml per tree (Note: If the soil is sandy the rate of application may be reduced to 75 % of the recommended. For repeat use the rate of application can be 50 to 75 % of the rate used in the 1st year)		
Pomegranate	To induce flowering and enhance yield	0.69 g.ai./ha	3.0 ml/tree	2L Recommended as soil drench (single application) ring form furrow to be made at a depth of 5-7 cm around plants and soil drenching to be done in active root zone and covered with soil.	83
Apple	To induce flowering and enhance yield	2.3 g.a.i./tree	10 ml/tree	5L Recommended as soil drench (single application) Treatment should be drenched in soil in circular area 25 cm away from tree stem. (Dormant stage)	155
	To induce flowering and enhance yield	0.46 g.a.i/ Litre water (460 ppm)	2 ml/Litre (2000 ppm)	3L Recommended as foliar spray (single application) with	134

				the help of high volume knap sack sprayer (at green tip stage)	
Cotton	To restrict vegetative growth prevent shedding of squares/bolls & enhance yield	34.50 g a.i./ha	150ml/ha	500 L/ha	42
Groundnut	To enhance yield by restricting vegetative growth	28.75 g a.i./ha	125 ml/ha	500 L/ha	70
Paclobutrazol 40% SC					
Pigeon Pea	At Flowering initiation stage	30	75	500	48
Prohexadione-Ca 10% WG					
Apple	Two split applications: 1st application: at 3-5 leaves/ shoot 2nd application 4 weeks after 1st application	125 150	50 gm per 100 liter 60 gm per 100 liter	2500 2500	94
Sodium Para –Nitrophenolate 0.3% SL					
Cotton	Flower bud initiated stage and fruit set stage	0.5%	5 ml	800	16
Tomato	Flowering and fruit stages	0.5%	4 ml	200	7
Triacontanol 0.05% EC					
Cotton	To increase the yield Three sprays at 45, 65 and 85 days after planting	0.125 gm	0.25ltr	400-500	
Rice	Three sprays at 25, 45 and 65 days after transplanting	0.125 gm	0.25ltr	400-500	
Chilli	Three sprays at 25, 45 and 65 days after planting	0.125 gm	0.25ltr	400-500	
Tomato	Three sprays at 25, 45 and 65 days after planting	0.125gm	0.25 ltr	400-500	
Groundnut	Three sprays at 25, 45 and 65	0.125 gm	0.25 ltr	400-500	-

	days after planting				
Potato	Two sprays at 30 and 45 days after planting	0.250 gm	0.50 ltr	500-600	-
Triacontanol 0.05%w/w min. GR					
Cotton	To increase the yield Broadcast & mix the desired quantity of granules in soil 2-3 days before sowing.	12.5 gm	25 kg.	-	-
Rice	Broadcast & mix the desired quantity of granules in soil 2-3 days before transplanting.	12.5 gm	25 kg.	-	-
Chilli	Broadcast & mix the desired quantity of granules in soil 2-3 days before sowing.	12.5 gm	25 kg.	-	-
Tomato	Broadcast & mix the desired quantity of granules in soil 2-3 days before sowing.	12.5 gm	25 kg.	-	-
Groundnut	Broadcast & mix the desired quantity of granules in soil 2-3 days before sowing.	12.5 gm	25 kg.	-	-
Triacontanol 0.1% EW					
Cotton	To increase the yield Three sprays at 45, 65 and 85 days after sowing	0.25 g	0.25 ltr.	400-500	-
Rice	Three sprays at 25, 45 and 65 days after transplanting	0.25 g	0.25 ltr.	400-500	-
Chilli	Three sprays at 25, 45 and 65 days after transplanting	0.25 g	0.25 ltr.	400-500	-
Tomato	Three sprays at 25, 45 and 65 days after transplanting	0.25 g	0.25 ltr.	400-500	-
Groundnut	Three sprays at 25, 45 and 65 days after sowing	0.25 g	0.25 ltr.	400-500	-

Tea	Three sprays: 1st spray on mature plants, 2nd spray one month after 1st spray, 3rd spray one month after 2nd spray	0.25 g	0.25 ltr	400-500	-
Cyclanilide 2.10% w/w +Mepiquat Chloride 8.40% w/w SC					
Cotton	First spray should be applied at square formation stage or after 45-55 days of sowing. 2nd and 3rd spray should be applied at an interval of 15 days.	4.40 +17.60 to 4.95 +19.80 gm	200 - 225	500	21
Gibberellic acid 1.8% + 6-Benzyladenine 1.8% L					
Apple	To increase the yield through enhancement of fruit size and weight, to improve the shape and development of prominent calyx lobes (typiness). To increase lateral bud break and shoot growth (branching) & improving branch angle of nursery stock young apple trees	30-60 ppm	840-1680 ppm	1000	-

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Insecticides / Pesticides Registered under section 9(3) of the Insecticides Act, 1968 for use in the Country:

Sl. No.	Name of the Pesticide
1.	1-Methyl Cyclopropene
2.	6-Benzyladenine
3.	2,4-D Amine salt
4.	2,4-D- Ethyl Ester
5.	2,4-D Sodium Salt
6.	2,4-Dichlorophenoxy Acetic Acid
7.	Abamectin
8.	Acephate
9.	Acetamiprid
10.	Afidopyropen
11.	Allethrin
12.	Alphacypermethrin
13.	Alphanaphthyl Acetic Acid
14.	Aluminium Phosphide
15.	Ametroctradin
16.	Ametryn
17.	Amisulbrom (FI-WRT)
18.	*Ampelomyces quisqualis*
19.	Anilophos
20.	Atrazine
21.	Aureofungin
22.	Azadirachtin (Neem Products)
23.	Azimsulfuron
24.	Azoxystrobin
25.	*Bacillus sphaericus*
26.	*Bacillus subtillus*
27.	*Bacillus thuringiensis* var. galleriae
28.	*Bacillus thuringiensis* var. israelensis

29.	*Bacillus thuringiensis* var. kurstaki
30.	Barium Carbonate
31.	*Beauveria bassiana*
32.	Benalaxyl
33.	Benalaxyl M
34.	Bendiocarb
35.	Benfuracarb
36.	Bensulfuron Methyl
37.	Bentazone
38.	Benzpyrimoxam
39.	Beta Cyfluthrin
40.	Bifenazate
41.	Bifenthrin
42.	Bispyribac Sodium
43.	Bitertanol
44.	Boscalid
45.	Brodifacoum
46.	Broflanilide
47.	Bromadiolone
48.	Buprimate
49.	Buprofezin
50.	Butachlor
51.	Captan
52.	Carbendazim
53.	Carbofuran
54.	Carbosulfan
55.	Carboxin
56.	Carfentrazone Ethyl
57.	Carpropamid
58.	Cartap Hydrochloride
59.	Chlorantraniliprole
60.	Chlorfenopyr
61.	Chlorfluazuron

62.	Chlorimuron ethyl
63.	Chlormequat Chloride (CCC)
64.	Chlorothalonil
65.	Chlorpropham
66.	Chlorpyriphos
67.	Chlorpyriphos Methyl
68.	Chromafenozide
69.	Cinmethylene
70.	Clethodim
71.	Clodinafop-propargyl
72.	Clomazone
73.	Clothianidin
74.	Copper Hydroxide
75.	Copper Oxychloride
76.	Copper Sulphate
77.	Copper Sulphate Pentahydrate
78.	Coumachlor
79.	Coumatetralyl
80.	Cuprous Oxide
81.	Cyantraniliprole
82.	Cyazofamid
83.	Cyclanilide
84.	Cyclaniliprole
85.	Cyenopyrafen
86.	Cyflufenamide
87.	Cyflumetofen
88.	Cyfluthrin
89.	Cyhalofop-butyl
90.	Cymoxanil
91.	Cypermethrin
92.	Cyphenothrin
93.	Cyproconazole
94.	Cyzofamide
95.	Dazomet
96.	Deltamethrin (Decamethrin)

97.	Diafenthiuron
98.	Dichloro Diphenyl Trichloroethane (DDT)
99.	Dichloropropene and Dichloropropane mixture (DD mixture)
100.	Diclofop-Methyl
101.	Diclosulam
102.	Dicofol
103.	Difenoconazole
104.	Diflubenzuron
105.	Dimethoate
106.	Dimethomorph
107.	Dinocap
108.	Dinotefuron
109.	Dithianon
110.	Diuron
111.	Dodine
112.	D-trans Allethrin
113.	Edifenphos
114.	Emamectin Benzoate
115.	Epoxyconazole
116.	Ethephon
117.	Ethion
118.	Ethiprole
119.	Ethofenprox (Etofenprox)
120.	Ethoxysulfuron
121.	Ethylene Dichloride and Carbon Tetrachloride mixture
122.	Etoxazole
123.	Famoxadone
124.	Fenamidone
125.	Fenazaquin
126.	Fenitrothion
127.	Fenobucarb (BPMC)
128.	Fenoxanil
129.	Fenoxaprop-p-ethyl
130.	Fenpropathrin
131.	Fenpyroximate

132.	Fenvalerate
133.	Fipronil
134.	Flocoumafen
135.	Flonicamid
136.	Florasulam
137.	Florpyrauxifen-benzyl
138.	Fluazifop-p-butyl
139.	Fluazaindolizine
140.	Flubendiamide
141.	Flucetosulfuron
142.	Fluchloralin
143.	Fluensulfone
144.	Flufenacet
145.	Flufenoxuron
146.	Flufenzine
147.	Flumioxazin
148.	Fluopicolide
149.	Fluopyram
150.	Flupyradifurone
151.	Flupyrimin
152.	Flurochloridone
153.	Fluroxypyr meptyl
154.	Flusilazole
155.	Fluthiacet methyl
156.	Fluvalinate
157.	Fluxametamide
158.	Fluxapyroxad
159.	Fomesafen
160.	Forchlorfenuron
161.	Fosetyl-Al
162.	Gibberellic Acid
163.	Glufosinate Ammonium
164.	Glyphosate (IPA Salt)
165.	Glyphosate Ammonium Salt

166.	Glyphosate Potassium salt
167.	Gossyplure
168.	Halauxifen-methyl
169.	Haloxyfop-R-methyl
170.	Helosulfuron methyl
171.	Hexaconazole
172.	Hexazinone
173.	Hexythiazox
174.	Hydrogen Cyanamide
175.	Imazamox
176.	Imazethapyr
177.	Imidacloprid
178.	Imiprothrin
179.	Indaziflam
180.	Indoxacarb
181.	Iodosulfuron methyl sodium
182.	Iprobenfos (Kitazin)
183.	Iprodione
184.	Iprovalicarb
185.	Isocycloseram
186.	Isoprothiolane
187.	Isoproturon
188.	Kasugamycin
189.	Kresoxim Methyl
190.	Lambdacyhalothrin
191.	Lime Sulphur
192.	Lufenuron
193.	Magnesium Phosphide Plates
194.	Malathion
195.	Mancozeb
196.	Mandipropamid
197.	MCPA, Amine salt
198.	Mefentrifluaconazole
199.	Mepiquate Chloride

200.	Meptyldiinocop
201.	Mesosulfuron Methyl
202.	Mesotrione
203.	Metaflumizone
204.	Metalaxyl
205.	Metalaxyl-M
206.	Metaldehyde
207.	Metamifop
208.	Metamitron
209.	*Metarhizium anisopliae*
210.	Methabenzthiazuron
211.	Methomyl
212.	Methoxyfenazide
213.	Methyl Bromide
214.	Methyl Chlorophenoxy Acetic Acid (MCPA)
215.	Metiram
216.	Metofluthrin
217.	Metolachlor
218.	Metrafenone
219.	Metribuzin
220.	Metsulfuron Methyl
221.	Milbemectin
222.	Monocrotophos
223.	Myclobutanil
224.	Novaluron
225.	Nuclear polyhyderosis virus of *Helicoverpaarmigera*
226.	Nuclear polyhyderosis virus of *Spodopteralitura*
227.	Orthosulfamuron
228.	Oxadiargyl
229.	Oxadiazon
230.	Oxathiapipron
231.	Oxycarboxin
232.	Oxydemeton-Methyl
233.	Oxyfluorfen

234.	Paclobutrazol
235.	Paraquat dichloride
236.	Penconazole
237.	Pencycuron
238.	Pendimethalin
239.	Penflufen*
240.	Penoxsulam
241.	Permethrin
242.	Phenthoate
243.	Phosalone
244.	Phosmet
245.	Picoxystrobin
246.	Pinoxaden
247.	Polyoxin D Zinc salt
248.	Prallethrin
249.	Pretilachlor
250.	Primiphos-methyl
251.	Prochloraz
252.	Profenophos
253.	Prohexadione Calcium
254.	Propamocarb hydrochloride
255.	Propanil
256.	Propaquizafop
257.	Propergite
258.	Propetamphos
259.	Propiconazole
260.	Propineb
261.	Propoxur
262.	*Pseudomonas fluorescens*
263.	Pymetrozin
264.	Pyraclostrobin
265.	Pyrazosulfuron ethyl
266.	Pyrethrin (pyrethrum)
267.	Pyridaben
268.	Pyridalyl

269.	Pyrifluquinazon
270.	Pyriftalid
271.	Pyriproxyfen
272.	Pyrithiobac sodium
273.	Pyroxasulfon
274.	Quinalphos
275.	Quinclorac
276.	Quizalofop ethyl
277.	Quizalofop-P-tefuryl
278.	Renofluthrin
279.	Saflufenacil
280.	S-bioallethrin
281.	Sedaxane
282.	Sodium acifluorfen
283.	Sodium paranitrophinolate
284.	Spinetoram
285.	Spinosad
286.	Spiromesifen
287.	Spirotetramat
288.	Streptomycin
289.	Sulfentrazone
290.	Sulfosulfuron
291.	Sulfoxaflor
292.	Sulphur
293.	Tebuconazole
294.	Tembotrione
295.	Temephos
296.	Tetraconazole
297.	Tetracycline
298.	Tetraniliprole
299.	Thiacloprid
300.	Thifluzamide
301.	Thiobencarb (Benthiocarb)
302.	Thiocyclam Hydrogen oxalate

303.	Thiodicarb
304.	Thiomethoxam
305.	Thiophanate-Methyl
306.	Thiram
307.	Tolfenpyrad
308.	Topramezone
309.	Transfluthrin
310.	Triacontanol
311.	Triadimefon
312.	Triafamone
313.	Triallate
314.	Triasulfuron
315.	Tribasic Copper Sulfate
316.	Trichoderma harzianum
317.	Trichoderma viride
318.	Tricyclazole
319.	Trifloxistrobin
320.	Trifloxysulfuron Sodium
321.	Triflumezopyrim
322.	Triflumizole
323.	Trifluralin{The registration, import, manufacture , formulation, transport, sell and its all uses except use in wheat shall prohibited and completely banned vide S.O. 3951(E) dated 8th August 2018}
324.	Validamycin
325.	Valifenalate
326.	*Verticillium lecanii*
327.	*Verticillium chlamydosporium*
328.	Zinc Phosphide
329.	Zineb
330.	Ziram

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PESTICIDE FORMULATIONS REGISTERED FOR USE IN THE COUNTRY UNDER THE INSECTICIDES ACT, 1968:

APPROVED FORMULATION OF SOLO PESTICIDES	
A. INSECTICIDES	
Sr No.	**Formulation registered**
1.	Abamectin 1.9 % EC
2.	Acephate 75 % SP
3.	Acephate 95 % SG
4.	Acephate 97 % DF
5.	Acetamiprid 20 % SP
6.	Afidopyropen 50 g/L DC
7.	Allerthrin 0.02 % Coil
8.	Allerthrin 0.05% Coil
9.	Allerthrin 0.2 % Coil
10.	Allerthrin 0.5% Aerosol
11.	Allerthrin 0.5% Coil
12.	Allerthrin 3.6% LV
13.	Allerthrin 4% Mat
14.	Alphacypermethrin 0.1 % RTU
15.	Alphacypermethrin 0.5% Chalk
16.	Alphacypermethrin 0.667 % LLIN
17.	Alphacypermethrin 05 % WP
18.	Alphacypermethrin 10.00% EC
19.	Alphacypermethrin 10.00% SC
20.	Aluminium phosphide 15%Tab (12 gm)
21.	Aluminium phosphide 56% Powder
22.	Aluminium phosphide 56% Tab
23.	Aluminium phosphide 6 % Tab
24.	Aluminium phosphide 77.5% GR
25.	Barium Carbonate 1% P
26.	Benfuracarb 03 % GR
27.	Benfuracarb 40 % EC
28.	Benzoate 00.10 % w/w Gel
29.	Benzpyrimoxan 10% SC
30.	Beta-cyfluthrin 02.45 % SC

31.	Bifenazate 22.60 % SC
32.	Bifenazate 50 % WP
33.	Bifenthrin 0.05 % MC (8 hrs)
34.	Bifenthrin 02.50 % EC
35.	Bifenthrin 08 % SC
36.	Bifenthrin 08.80 % CS
37.	Bifenthrin 10 % EC
38.	Bifenthrin 10% WP
39.	Brodifacoum 0.005 %w/w BB
40.	Broflanilide 20% SC
41.	Broflanilide 300 g/l SC
42.	Bromadiolone 00.005 % RB
43.	Bromadiolone 00.25 % CB
44.	Buprofezin 25 % SC
45.	Buprofezin 70 % DF
46.	Carbofuran 03 % CG
47.	Carbosulfan 06 % Granules
48.	Carbosulfan 25 % DS
49.	Carbosulfan 25 % EC
50.	Cartap Hydrochloride 04 % Granules
51.	Cartap Hydrochloride 50 % SP
52.	Cartap Hydrochloride 75 % SG
53.	Chlorantraniliprole 00.40 % GR
54.	Chlorantraniliprole 18.50 % SC
55.	Chlorantraniliprole 35 % WG
56.	Chlorantraniliprole 50% FS
57.	Chlorfenapyr 10 % SC
58.	Chlorfenapyr 240 g/l SC
59.	Chlorfluazuron 05.40 % EC
60.	Chlorpyrifos 01.50 % DP
61.	Chlorpyrifos 10 % Granules
62.	Chlorpyrifos 20 % EC
63.	Chlorpyrifos 50 % EC
64.	Chlorpyriphos 02 % w/w EC
65.	Chlorpyriphos 75 % w/w WG
66.	Chlorpyriphos Methyl 40 % EC
67.	Chromafenozide 80 % WP

68.	Clothianidin 0.5 % GR
69.	Clothianidin 50 % WDG
70.	Coumatetralyl 0.037% Bait
71.	Coumatetralyl 0.75% Gel
72.	Cyantraniliprole 10.26% OD
73.	Cyclaniliprole 100 DC
74.	Cyenopyrafen 30 % SC
75.	Cyflumetofen 20 % SC
76.	Cyfluthrin 05 % EW
77.	Cyfluthrin 10 % WP
78.	Cypermethrin 0.1% Aqueous
79.	Cypermethrin 0.25%DP
80.	Cypermethrin 03 % Smoke Generator
81.	Cypermethrin 1% Chalk
82.	Cypermethrin 1% Dust
83.	Cypermethrin 10% EC
84.	Cypermethrin 25% EC
85.	Cyphenothrin 7.2% VP w/w (For use by pest control operator only)
86.	DDT 50 % WP
87.	DDT 75 % WP
88.	Deltamethrin 00.50 % w/w Chalk
89.	Deltamethrin 01 % RTU
90.	Deltamethrin 01.25 % w/w (01.00 % w/v) EC
91.	Deltamethrin 01.80 % EC
92.	Deltamethrin 02.50 % Flow
93.	Deltamethrin 02.50 % WP
94.	Deltamethrin 02.80 % EC
95.	Deltamethrin 1.25 % ULV
96.	Deltamethrin 11% w/w EC
97.	Deltamethrin 25 % Tablet
98.	Deltamethrin 55% mg/m2 (impregnated bed net)
99.	Diafenthiuron 47.80 % SC
100.	Diafenthiuron 50 % WP
101.	Dicofol 18.50 % EC
102.	Diflubenzuron 0.1% w/w (Termite bait)
103.	Diflubenzuron 02 % GR
104.	Diflubenzuron 02 % Tablets

105.	Diflubenzuron 25 % WP
106.	Dimethoate 30 % EC
107.	Dinotefuran 0.5% RB Gel
108.	Dinotefuran 20 % SG
109.	Dinotefuran 70% WG
110.	D-trans allethrin 0.1% Coil
111.	D-trans allethrin 2% Mat
112.	D-trans allethrin 21.97% Mos. Mat
113.	Emamectin benzoate 01.90 % EC
114.	Emamectin benzoate 05 % SG
115.	Ethion 50 % EC
116.	Ethofenoprox 10 % EC
117.	Ethylene Dichloride and Carbon Tetrachloride mixture (EDCT mixture 3: 1)
118.	Etoxazole 10 % SC
119.	Fenazaquin 10 % EC
120.	Fenazaquin 18.3 % SC
121.	Fenitrothion 2% spray
122.	Fenitrothion 20 % OL
123.	Fenitrothion 40 % WP
124.	Fenobucarb (BPMC) 50 % EC
125.	Fenpropathrin 10 % EC
126.	Fenpropathrin 10% EW
127.	Fenpropathrin 30 % EC
128.	Fenpyroximate 05 % EC
129.	Fenpyroximate 05 % SC
130.	Fenvalerate 00.40 % DP
131.	Fenvalerate 02 % Conc.
132.	Fenvalerate 20 % EC
133.	Fipronil 00.03 % & 0.5 % Gel
134.	Fipronil 00.05 % GEL
135.	Fipronil 00.30 % GR
136.	Fipronil 00.60 % w/w GR
137.	Fipronil 0.8% WG
138.	Fipronil 02.92 % EC
139.	Fipronil 05 % SC
140.	Fipronil 18.87 % w/w SC
141.	Fipronil 80 % WG

142.	Flocoumafen 0.005% Block Bait (Strom)
143.	Flonicamid 50 % WG
144.	Fluazandolizine 41.15% SC
145.	Flubendiamide 00.70 % GR
146.	Flubendiamide 20 % WG
147.	Flubendiamide 39.35 % w/w SC
148.	Flufenoxuron 10 % DC
149.	Flumite 20 % SC / Flufenzine 20 % SC
150.	Fluopyram 34.48 % w/w SC
151.	Flupyradifurone 17.09 % w/w SL
152.	Flupyrimin 10% EC
153.	Flupyrimin 2% GR
154.	Fluvalinate 25 % EC
155.	Fluxametamide 10% EC
156.	Hexythiazox 05.45 % w/w EC
157.	Imidacloprid 00.03 % w/w Gel
158.	Imidacloprid 00.30 % GR
159.	Imidacloprid 02.15 % w/w Gel
160.	Imidacloprid 17.1 % w/w SL
161.	Imidacloprid 17.80 % SL
162.	Imidacloprid 30.50 % m/m SC
163.	Imidacloprid 48 % FS
164.	Imidacloprid 70 % WG
165.	Imidacloprid 70 % WS
166.	Indoxacarb 14.50 % SC
167.	Indoxacarb 15.80 % EC
168.	Isocycloseram 9.2% DC (10% DC)
169.	Isocycloseram 18.1% SC
170.	Lambda-cyhalothrin 00.50 % Chalk
171.	Lambda-cyhalothrin 02.43 % CS
172.	Lambda-cyhalothrin 02.50 % EC
173.	Lambda-cyhalothrin 04.90 % CS
174.	Lambda-cyhalothrin 05 % EC
175.	Lambda-cyhalothrin 10 % WP
176.	Lufenuron 05.40 % EC
177.	Malathion 02 % House Hold Spray
178.	Malathion 05 % DP
179.	Malathion 25 % WP

180.	Malathion 50 % EC
181.	Malathion 96 % ULV
182.	Metaflumizone 22 % SC
183.	Metaldehyde 2.5% DP
184.	Methomyl 40 % SP
185.	Methoxyfenozide 21.8 % w/w SC
186.	Methyl Bromide 98 % w/w
187.	Metofluthrin 0.005% Mosquito coil (12 Hrs)
188.	Metofluthrin 0.005% Mosquito coil (7 Hrs)
189.	Metofluthrin 0.32% LV
190.	Milbemectin 01 % EC
191.	Monocrotophos 15 % SG
192.	Monocrotophos 36 % SL
193.	Novaluron 08.80 % SC
194.	Novaluron 10 % EC
195.	Oxydemeton-methyl 25 % EC
196.	Permethrin 02.00% (Olyset@ Net) w/w for Import only
197.	Permethrin 2.0% Aerosol
198.	Permethrin 25 % EC
199.	Phenthoate 02 % DP
200.	Phenthoate 50 % EC
201.	Phosalone 04 % DP
202.	Phosalone 35 % EC
203.	Phosmet 50% WP
204.	Pirimiphos methyl 50 % EC
205.	Pirimiphos-methyl 01 % Spray
206.	Prallethrin 0.04% Mosquito coil (11 Hrs)
207.	Prallethrin 0.04% Mosquito coil (12 Hrs)
208.	Prallethrin 0.04% Mosquito coil (6 Hrs)
209.	Prallethrin 0.5% Mosquito coil
210.	Prallethrin 0.8% Red mosquito mat
211.	Prallethrin 0.8% Vaporizer
212.	Prallethrin 1.2% Mat
213.	Prallethrin 19 % w/w VP
214.	Profenofos 50 % EC
215.	Propargite 57 % EC

216.	Propetamphos 01 % Spray
217.	Propoxur 01 % Spray
218.	Propoxur 02 % Bait
219.	Propoxur 20 % EC
220.	Pymetrozine 50 % WG
221.	Pyrethrin 00.20 % Spray
222.	Pyridaben 20 % w/w WP
223.	Pyridalyl 10 % EC
224.	Pyrifluinazon 20% WG
225.	Pyriproxyfen 00.50 % GR
226.	Pyriproxyfen 10 % EC
227.	Pyriproxyfen 10% EW
228.	Quinalphos 01.50 % DP
229.	Quinalphos 05 % Granules
230.	Quinalphos 20 % AF
231.	Quinalphos 25 % EC
232.	Quinalphos 25 % Gel
233.	Renofluthrin 0.025% w/w Mosquito Coil
234.	Renofluthrin 5% MUP
235.	S-Bioallethrin 2.4% Mat
236.	Spinetoram 11.70 % SC
237.	Spinosad 02.50 % SC
238.	Spinosad 45 % SC
239.	Spiromesifen 22.90 % SC
240.	Spirotetramat 15.31 % w/w OD
241.	Sulfoxaflor 11.4% SC
242.	Sulfoxaflor 21.8 % w/w SC
243.	Temephos 50 % EC
244.	Tetraniliprole 18.18 SC
245.	Tetraniliprole 40.34% FS
246.	Thiacloprid 21.70 % SC
247.	Thiamethoxam 00.01 % w/w Gel Bait
248.	Thiamethoxam 25 % WG
249.	Thiamethoxam 30 % FS
250.	Thiamethoxam 70 % WS
251.	Thiamethoxam 75 % w/w SG

252.	Thiocyclam Hydrogen Oxalate 50% SP
253.	Thiodicarb 75 % WP
254.	Tolfenpyrad 15 % EC
255.	Transfluthrin 0.15% Mosquito Coil
256.	Transfluthrin 0.03% Mos. Coil
257.	Transfluthrin 0.08% Aerosol
258.	Transfluthrin 0.88% Liquid Vaporiser
259.	Transfluthrin 1% EU
260.	Transfluthrin 1.2% LV
261.	Transfluthrin 1.6% LV
262.	Transfluthrin 12.0% AE
263.	Transfluthrin 20% MV Gel (30 days mat tray)
264.	Triflumezopyrim 10.6% SC
265.	Triflumezopyrim 20% WG
266.	Zinc Phosphide 01 % bait (Household Product)
267.	Zinc Phosphide 80 % Powder
	HERBICIDE
268.	2,4-D Amine Salt 58% SL
269.	2,4-D Ethyl Ester 20% WP
270.	2,4-D Ethyl Ester 38% EC
271.	2,4-D Ethyl Ester 4.5% GR
272.	2,4-D Sodium Salt 80% min.
273.	Ametryn 80% WG
274.	Anilofos 18% EC
275.	Anilofos 2% G
276.	Anilofos 30% EC
277.	Atrazine 50% WP
278.	Azimsulfuron 50% DF
279.	Bensulfuron Methyl 60% DF
280.	Bentazone 480 g/l SL
281.	Bispyribac Sodium 10% SC
282.	Butachlor 5% GR
283.	Butachlor 50% EC
284.	Butachlor 50% EW
285.	Carfentrazone ethyl 40% DF
286.	Chlorimuron Ethyl 25% WP + Surfactant
287.	Cinmethylin 10% EC
288.	Clethodim 25% EC

289.	Clodinafop- propargyl 12.5% EC
290.	Clodinafop- propargyl 15% DF
291.	Clodinafop- propargyl 15% WP
292.	Clomazone 50% EC
293.	Cyhalofop-butyl 10% EC
294.	Diclofop-methyl 28% EC
295.	Diclosulam 84% WDG
296.	Diuron 80% WP
297.	Ethoxysulfuron 15% WDG
298.	Fenoxaprop-p-ethyl 10% EC
299.	Fenoxaprop-p-ethyl 6.7% w/w EC
300.	Fenoxaprop-p-ethyl 9% w/w DF
301.	Fenoxaprop-p-ethyl 9.3% w/w EC
302.	Florpyrauxifen-benzyl 2.7% w/w EC
303.	Fluazifop-p-butyl 13.4% EC
304.	Flucetosulfuron 10% WG
305.	Fluchloralin 45% EC
306.	Flufenacet 60% DF
307.	Flumioxazin 50% SC
308.	Flurochloridone 18.3% CS
309.	Fluroxypyr meptyl 48% w/v (45.5% w/w) EC
310.	Fluthiacet methyl 10.3% EC
311.	Glufosinate Ammonium 13.5% SL
312.	Glyphosate 20.2% SL (IPA Salt)
313.	Glyphosate 41% SL (IPA Salt)
314.	Glyphosate 54% SL (IPA Salt)
315.	Glyphosate Ammonium Salt 20 % SL
316.	Glyphosate Ammonium Salt 5% SL
317.	Glyphosate Ammonium Salt 71% SG
318.	Glyphosate Potassium Salt 41.60 % w/w SL (Equivalent to 54% w/v)
319.	Halosulfuron methyl 75% WG
320.	Haloxyfop R Methyl 10.5% w/w EC
321.	Imazethapyr 10% SL
322.	Imazethapyr 10% SL + Surfactant
323.	Imazethapyr 70% WG + Surfactant
324.	Isoproturon 50% WP
325.	Isoproturon 75% WP
326.	MCPA, Amine salt 40% WSC

327.	Metamifop 10% EC
328.	Metamitron 70% SC
329.	Methabenzthiazuron 70% WP
330.	Metolachlor 50% EC
331.	Metribuzin 70% WG
332.	Metribuzin 70% WP
333.	Metsulfuron-methyl 20% WG
334.	Metsulfuron-methyl 20% WP
335.	Orthosulfamuron 50% WG
336.	Oxadiargyl 6% EC
337.	Oxadiargyl 80% WP
338.	Oxadiazon 25% EC
339.	Oxyflourfen 0.35% GR
340.	Oxyflourfen 23.5% EC
341.	Oxyfluorfen 20% DF
342.	Paraquat dichloride 24% SL
343.	Pendimethalin 30% EC
344.	Pendimethalin 38.7% CS
345.	Pendimethalin 5% GR
346.	Penoxsulam 2.67% OD
347.	Penoxsulam 21.7% SC
348.	Pinoxaden 5.1% EC
349.	Pretilachlor 30.7% EC
350.	Pretilachlor 37% EW
351.	Pretilachlor 50% EC
352.	Propanil 35% EC
353.	Propanil 80% DF
354.	Propaquizafop 10% EC
355.	Pyrazosulfuron-ethyl 10% WP
356.	Pyrazosulfuron-ethyl 70% WDG
357.	Pyrithiobac Sodium 10% EC
358.	Pyroxasulfone 85% WG
359.	Quinclorac 250 g/l SC
360.	Quizalofop-ethyl 10% EC
361.	Quizalofop-ethyl 5% EC
362.	Quizalofop-p-tefuryl 4.41% EC
363.	Saflufenacil 70.0% WG
364.	Sulfentrazone 39.6% SC

365.	Sulfosulfuron 75% WG
366.	Tembotrione 34.4% SC
367.	Topramezone 336 g/l w/v SC
368.	Triallate 50% EC
369.	Triasulfuron 20% WG
	PLANT GROWTH REGULATORS
370.	1-Methylcyclopropene 3.3% VP (Vapour Releasing Product)
371.	Alpha Naphthyl Acetic Acid 4.5% SL (Na salt)
372.	Chlormequat Chloride 50% SL
373.	Chlorpropham 50% HN
374.	Chlorpropham 55.37% w/w (624 g/l) HN
375.	Ethephon 10% Paste
376.	Ethephon 39% SL
377.	Forchlorfenuron (CPPU) 0.1% L
378.	Forchlorfenuron 0.12% EC
379.	Gibberellic Acid 0.001% L
380.	Gibberellic Acid 0.1% GR
381.	Gibberellic Acid 0.186% SP
382.	Gibberellic Acid 40% WSG
383.	Gibberellic Acid technical 90% w/w
384.	Hydrogen Cynamide 49% AS
385.	Hydrogen Cynamide 50% SL
386.	Mepiquat chloride 5% AS
387.	Paclobutrazol 23% SC
388.	Paclobutrazol 40% SC
389.	Prohexadione-Ca 10% WG
390.	Sodium para-nitrophenolate 0.3% SL
391.	Sodium para-nitrophenolate 1.8% SL
392.	Triacontanol 0.05% EC
393.	Triacontanol 0.05% w/w min. GR
394.	Triacontanol 0.1% EW
	FUNGICIDES
395.	Amisulbrom 17.7% (20% w/v) SC
396.	Aureofungin 46.15% SP
397.	Azoxystrobin 23% SC
398.	Bitertanol 25% WP
399.	Buprimate 26.7 % EC
400.	Captan 50% WG

401.	Captan 50% WP
402.	Captan 75% WS
403.	Captan 75%WP
404.	Carbendazim 25% DS
405.	Carbendazim 46.27% SC
406.	Carbendazim 5% Gr
407.	Carbendazim 50% WP
408.	Carboxin 75% WP
409.	Carpropamid 27.8 % SC
410.	Chlorothalonil 75% WP
411.	Copper Hydroxide 46.1% WG
412.	Copper Hydroxide 53.8% DF
413.	Copper Hydroxide 77% WP
414.	Copper Oxychloride 40% paste
415.	Copper Oxychloride 50% WP
416.	Copper Oxychloride 50%WG
417.	Copper Oxychloride 56% OP
418.	Copper Sulphate 2.62% SC
419.	Copper Sulphate Pentahydrate 6% w/v SC
420.	Cyazofamid 34.5% SC
421.	Cyflufenamide 5% EW
422.	Cymoxanil 50% WP
423.	Difenoconazole 25% EC
424.	Difenoconazole 3% WS
425.	Dimethomorph 50% WP
426.	Dinocap 48% EC
427.	Dithianon 75% WP
428.	Dodine 40% SC
429.	Dodine 65% WP
430.	Edifenphos 50% EC
431.	Ethaboxam 40% SC
432.	Fluopyram 34.48% SC
433.	Flusilazole 40% EC
434.	Fluxapyroxad 333g/l FS
435.	Fosetyl-Al 80% WP
436.	Hexaconazole 0.5% GR
437.	Hexaconazole 2% SC
438.	Hexaconazole 5% EC

439.	Hexaconazole 5% SC
440.	Hexaconazole 75% WG
441.	Iprobenfos (Kitazin) 17% Gr.
442.	Iprobenfos (Kitazin) 48% EC
443.	Iprodione 50% WP
444.	Isoprothiolane 40% EC
445.	Kasugamycin 3% SL
446.	Kresoxim-methyl 44.3%(500 g/l)SC
447.	Lime Sulphur 22% SC
448.	Mancozeb 35% SC
449.	Mancozeb 75% WP
450.	Mancozeb 75%WG
451.	Mandipropamid 23.4% SC
452.	Meptyldinocap 35.7% EC
453.	Metalaxyl – M 31.8% ES
454.	Metalaxyl 35% WS
455.	Metiram 70% WG
456.	Metrafenone 500g/l SC
457.	Myclobutanil 10%WP
458.	Oxathiapipron 10.1% OD
459.	Oxycarboxin 20% EC
460.	Paclobutarzole 23% SC
461.	Paclobutrazole 40% SC
462.	Penconazole 10% EC
463.	Pencycuron 22.9% SC
464.	Penflufen 22.43% FS
465.	Picoxystrobin 22.52% SC
466.	Polyoxin D Zinc salt 5% SC
467.	Prochloraz 39.6% EC
468.	Propiconazole 25% EC
469.	Propineb 70% WP
470.	Pyraclostrobin 100 g/l CS
471.	Pyraclostrobin 20% WG
472.	Sulphur 40% SC
473.	Sulphur 52% Flowable
474.	Sulphur 55.16% SC (800 gm/L)
475.	Sulphur 80% WG
476.	Sulphur 80% WP

477.	Sulphur 85% DP
478.	Tebuconazole 2% DS
479.	Tebuconazole 25% WG
480.	Tebuconazole 25.9% EC
481.	Tebuconazole 38.39% SC
482.	Tebuconazole 5.36% FS
483.	Tebuconazole 5.4% (6.0%w/v) FS
484.	Tetraconazole 11.6% w/w
485.	Tetraconazole 3.8% EW
486.	Thifluzamide 24% SC
487.	Thiophanate-methyl 41.7% SC
488.	Thiophanate-methyl 70% WG
489.	Thiophanate-methyl 70% WP
490.	Thiram 40% FS
491.	Thiram 75% WS
492.	Thiram 80% WP
493.	Triadimefon 25% WP
494.	Tricyclazole 70% WG
495.	Tricyclazole 75% WP
496.	Triflumizole 42.14% w/w SC
497.	Tribasic copper sulfate 34.5% w/v SC
498.	Validamycin 3% L
499.	Zineb 75% WP
500.	Zineb 80% WP
501.	Ziram 27% SC
502.	Ziram 80% WP
E: BIO-INSECTICIDES	
Sr No.	**Formulation registered**
503.	Azadirachtin 0.15% EC w/w Min. Neem Seed Kernel Based
504.	Azadirachtin 0.15% EC
505.	Azadirachtin 00.30% EC (3000 PPM) Min. Neem Seed Kernel Based
506.	Azadirachtin 01.00% EC Min. Neem Based
507.	Azadirachtin 01.00% EC (10000 PPM) Min. Neem Based
508.	Azadirachtin 00.03% EC Min. Neem Oil Based
509.	Azadirachtin 00.03% WSP (300 PPM) Neem Oil Based
510.	Azadirachtin 05.00% w/w Min. Neem Extract Concentrates
511.	*Bacillus thuringiensis* var. galleriae 1593 M sero type H 59 5b, 1.3%
512.	*Bacillus thuringiensis* var. *4rustaki*

513.	*Bacillus thuringiensis* var. *4rustaki*, serotype H-39, 3B, Strain Z-52
514.	*Bacillus thuringiensis* serovar 4rustaki (3a, 3b, 3c) 5.0% WP Potency 55000 SU
515.	*Bacillus thuringiensis* var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mgmin. U/s 9(3b)
516.	*Bacillus thuringiensis* var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1 NAIMCC-B-01118,Potency 13329 IU/mg min. U/s 9(3b)
517.	*Bacillus thuringiensis* var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 16000IU/mg min.
518.	*Bacillus thuringiensis* var. 5rustaki 2.5% AS
519.	*Bacillus thuringiensis* var. 6rustaki Strain HD-1, serotype 3a, 3b, 3.5% ES for Import &repack. Potency 17600 IU/mg
520.	*Bacillus thuringiensis* var. 6rustaki Serotype 3a, 3b, SA II WG Potency:- 53000 SU/mg, 32000 IU/mg
521.	*Bacillus thuringiensis* var. israelensis WP
522.	*Bacillus thuringiensis* var. israelensis , Serotype H-14 (VECTOBAC 12 AS)
523.	Potency 1200 ITU / MG
524.	*Bacillus thuringiensis* var. israelensis, Serotyp H-14 (Vectobac 12 AS) potency 1200 ITU/mg
525.	*Bacillus thuringiensis* var. israelensis 5.0% AS (Strain VCRC-B-17, Serotype H-14, Accession No.-MTCC 5596
526.	*Bacillus thuringiensis* var. israelensis (H-14) 5.0% AS
527.	*Bacillus thuringiensis* var. israelensis, Serotyp H-14, 5% WP Potency 2000 ITU/mg
528.	*Bacillus thuringiensis* var. israelensis, Strain Designation- ABIL, Accession No. NAMICC-B01318 (CFUCount- 4.8 x 10^8) Serotyp H-14, 5% WP Potency 7000 ITU/mg
529.	*Bacillus thuringiensis* var. sphaericus1593 M sero type H 59 5b
530.	*Bacillus thuringiensis* var. israelensis 12% AS (Vectobac)
531.	*Bacillus thuringiensis* var. israelensis 00.50%WP
532.	*Bacillus thuringiensis* var. israelensis 05.00%WP
533.	*Bacillus sphaericus* 1593 M sero type H 59 5b, 1.3% flowable concentrate Potency 13000 IU/mg
534.	*Beauveria bassiana* 1.15% WP
535.	*Beauveria bassiana* 1.15% WP. (1x10^8 /gm min) Strain BB-ICAR-RJP, Accession No – MCC 1022
536.	*Beauveria bassiana* 1.15% WP (Strain : BB – 5372, own R & D Isolate)
537.	*Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Strain ICAR, Research Complex, Umiam, Meghalaya,Accession No – NAIMCC-F-03045
538.	*Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Accession No – NAIMCC-F-03045, Strain No. NBAIM,MAU.

539.	*Beauveria bassiana* 1.15% WP (1x10^8 /spores/ml) Strain BCRL, Accession No – BCRL Bbpx-6892
540.	*Beauveria bassiana* 1.0% WP, Strain No: NBRI – 9947 (1x10^8 CFU/gm Min.)
541.	*Beauveria bassiana* 1.0% WP (1x10^9 CFU/gm min), Strain No. IPL/BB/MI/01
542.	*Beauveria bassiana* 1.0% WP (1x10^8 CFU/gm min), Strain No. SVBPU/CSP/Bb-10, Accession No. ITCC-7520
543.	*Beauveria bassiana* 5.0% WP, (1x10^8 CFU/gm min) Strain IARI, Accession No. ITCC-7353
544.	*Beauveria bassiana* 5.0% SC, Strain: NBAII , Bangalore , Accession No. ITCC-7102
545.	*Beauveria bassiana* 5.0% AS Strain : BB-AAU-RJP Accession No. MCC – 1024
546.	*Beauveria bassiana* 1.15% WP (1x10^8 /gm min) Accession No – NAIMCC-F-03048
547.	*Beauveria bassiana* 10.00% SC
548.	*Beauveria bassiana 1.5%* Liquid Formulation (CFU count 10X10^8) Accession No.MTCC-5171
549.	*Beauveria bassiana* 1.15% WP (1X10^6 CFU /gm min)
550.	*Metarhizium anisopliae* 1.0% WP (1x10^8 CFU/gm min) Strain No. IPL/KC/44 (Own R & D Isolate),Accession No. 6895
551.	*Metarhizium anisopliae* 1.15% WP (1x10^8 CFU/gm min) Accession No. MTCC – 5173
552.	*Metarhizium anisopliae* 1.15% WP (1x10^8 CFU/gm min) Strain No. AAI, Allahabad, Accession No.NAIMCC-F-03037.
553.	*Metarhizium anisopliae* 10% GR (CFU count 1 X 10^8 /gm. min.) Strain BCRL–Me,Accession No. ITCC 6911
554.	NPV of *Helicoverpa armigera* 0.5%AS, (1x109 POB/ml Min.)
555.	NPV of Helicoverpa armigera 2.0%AS, (1x109 POBs count / ml min) Biological Insecticide
556.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 0.43% AS (1x109 POB/ml)
557.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 0.43% AS, Strain No. BIL/HV-9 (1x109 POB/mlMin.)
558.	Nuclear Polyhedrosis Virus of Helicoverpa armigera 2.0% AS, Strain No. GBS/HNPV -01 (1x109POB/ml Min.)
559.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. NBRI-8821 (1x109 POB/mlMin.)
560.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. IBH-17268 (1x109 POB/mlMin.)

561.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. BIL/HV-9 POB(1x109 POB/mlMin.)
562.	Nuclear Polyhedrosis Virus of *Helicoverpa armigera* 2.0% AS, Strain No. IBL-17268
563.	Nuclear Polyhedrosis Virus of *Spodoptera litura* 0.5% AS, (1x109 POB/ml Min.)
564.	*Paecilomyces lilacinus* 01.15% WP
565.	PB Rope L
566.	*Pseudomonas fluorescens* 1.0% WP (Strain No. IIHR-PF-2, Accession No. ITCC-B0034)
567.	*Trichoderma harzianum* 1.0% WP (Strain No. IIHR-TH-2 Accessions No. ITCC 6888)
568.	*Trichoderma harzianum* 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)
569.	*Trichoderma viride* 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)
570.	*Verticillium chlamydosporium* 1.0% WP, (2x106 CFU/gm min) Strain – IIHR-VC-3 Accession No –ITCC-6898
571.	*Verticillium lecanii* 1.15%WP, (1x10^8 CFU/gm min) Strain – AS MEGH-VL Accession No – MCC-1028
572.	*Verticillium Lecanii* 1.50% Liquid Formulation, (1x10^8 CFU/ml. min.) Strain – T Stanes VI-1,Accession No – MTCC-5172
573.	*Verticillium lecanii* 3.0% AS, (strain: Accession No. MCC-1127, Strain No. MPKV / Biocontrol/ RVN/VL-01
574.	*Verticillium lecanii* 5.0% SC, (1x10^8 CFU/gm Min.) Strain – Own Red Isolate, Strain No. VI-17874,MTCC No.5716
575.	*Verticillium lecanii* 5.0% SC, (Strain: Accession No. NFCCI - 2638
	BIO-FUNGICIDES
576.	*Ampelomycesquisqualis*2.0%WP(Aq-1MTCC-5683)
577.	*Bacillussubtilis*1.0%WP(CPBT15,MTCC5527)
578.	*Bacillussubtilis*1.15%A.S
579.	*Bacillussubtilis*1.5%LF(Bs-1,MTCC25072)
580.	*Bacillussubtilis* 1.5%A.S.(BIL,BS-168)
581.	*Bacillussubtilis* 1.5%A.S.(KTSBMTCC5786)
582.	*Bacillussubtilis*2.0%A.S.(IPL/BS/09,MTCC-5728)
583.	*Pseudomonasflourescens*1.5%LF(PF-1,MTCCNo.5671)
584.	*Pseudomonasfluorescens*0.5%W.P.(TNAUPF1ITCCBE-0005)
585.	*Pseudomonasfluorescens*1.0%W.P.(IIHR-PF-2, ITCCB-0034)
586.	*Pseudomonasfluorescens* 1.0%W.P.(IPL/PS-01,MTCC-5727)
587.	*Pseudomonasfluorescens* 1.5%A.S.(AS-AAIF,MCC2539)

588.	*Pseudomonasfluorescens*1.5%WP
589.	*Pseudomonasfluorescens*1.75%WP(PF-1MTCCNo.5671)
590.	*Pseudomonasfluorescens*2.0%A.S.(IPL/PS-01)
591.	*Trichodermaharzianum*0.5%WS(T-39)
592.	*Trichodermaharzianum*1.0%WP(Th3,ITCC-5593)
593.	*Trichodermaharzianum*1.0%W.P.(IIHR-Th-2,ITCC-6888)
594.	*Trichodermaharzianum*2.0%A.S.(IPL/VT/1026893)
595.	*Trichodermaharzianum*2.0%WP (NBRI-1055)
596.	*Trichodermaharzianum*5.0%SC(ITCC-7111)
597.	*Trichoderma harzianum*5.0%WP
598.	*Trichodermaressei*3.0%WP(CSR-T-3,NAIMCC-SF-0030)
599.	*Trichodermaviride*0.50%W.P.
600.	*Trichodermaviride*1.0%AS(TV-AAU-RJP,MCC-1013)
601.	*Trichodermaviride*1.0%W.P.(Tv-1,ITCC-6914)
602.	*Trichodermaviride*1.00%W.P.(IPL/VT/101)
603.	*Trichodermaviride*1.00%W.P.(T-14)
604.	*Trichodermaviride*1.5%LF(Tv-1,MTCC-5170)
605.	*Trichodermaviride*1.5%W.P.(IIHR-Tv-5,ITCC-6889)
606.	*Trichodermaviride*2%W.P.(BHU, NAIMCC-F-02976)
607.	*Trichodermaviride*5%LF(NAIM-F-03034)
FORMULATIONS OF COMBINATION OF PESTICIDES	
A. INSECTICIDES	
Sr No.	**Formulation registered**
608.	Acephate 25% + Fenvalerate 3% EC
609.	Acephate 45% + Cypermethrin 5% DF
610.	Acephate 50% + Bifenthrin 10% WDG
611.	Acephate 50% + Fipronil 5% WDG
612.	Acephate 50% + Imidacloprid 1.8% SP
613.	Acetamiprid 25% + Bifenthrin 25% WG
614.	Acetamiprid 0.4% + Chlorpyriphos 20% EC
615.	Acetamiprid 1.1% + Cypermethrin 5.5% EC
616.	Beta cyfluthrin 8.49% + Imidacloprid 19.81% OD
617.	Bifenthrin 3% + Chlorpyriphos 30% EC
618.	Bifenthrin 8% + Clothianidin 10% SC
619.	Buprofezin 20% + Acephate 50% WP
620.	Buprofezin 20% + Acetamiprid 2% WP
621.	Buprofezin 22.0% + Fipronil 3.0% SC
622.	Buprofezin 23.1% + Fipronil 3.85% SC

623.	Buprofezin 9.0% + Acephate 24.0% WP
624.	Buprofezin15% + Acephate35% WP
625.	Cartap Hydrochloride 4.0% + Fipronil 0.50% GC
626.	Cartap hydrochloride 50% + Buprofezin 10% WP
627.	Cartap Hydrochloride 7.5% w/w + Emamectine Benzoate 0.25% w/w GR
628.	Cartap Hydrochloride 25% + Emamectine Benzoate 1.0% SG
629.	Chlorantraniliprole 0.50% + Thiamethoxam 1% GR
630.	Chlorantraniliprole 4.3% + Abamectin 1.7% SC
631.	Chlorantraniliprole 8.8% + Thiamethoxam 17.5% SC
632.	Chlorantraniliprole 9.3% + Lambdacyhalothrin 4.6% ZC
633.	Chloropyriphos 16% + Alphacypermethrin 1% EC
634.	Chlorpyriphos 50% + Cypermethrin 5% EC
635.	Chlorpyriphos 50% + Cypermethrin 5% WG
636.	Clothianidin 3.5% + Pyriproxyfen 8% SE
637.	Cyantraniliprole 16.9% + Lufenuron 16.9% SC
638.	Cyantraniliprole 7.3% + Diafenthiuron 36.4% SC
639.	Cyantraniliprole19.8%+Thiamethoxam1 9.8% FS
640.	Cyclanilide 2.10% + Mepiquat Chloride 8.40% SC
641.	Cyfluthrin0.025% + Tranfluthrin0.04% Aerosol
642.	Cypermethrin 10% +Indoxacarb 10% SC
643.	Cypermethrin 3% + Quinalphos 20% EC
644.	Deltamethrin 0.02% + Allethrin 0.13% EC
645.	Deltamethrin 0.05% + Allethrin 0.04%EC
646.	Deltamethrin 0.15 % + Piperonyl 0.55 % EC
647.	Deltamethrin 0.15% + Fipronil 0.55% EC
648.	Deltamethrin 0.72% + Buprofezin 5.65% EC
649.	Deltamethrin 2.5% + D-trans-allethrin 2.0% EC
650.	Diafenthiuron 30% + Pyriproxyfen 8% SE
651.	Difenthiuron 47.0% + Bifenthrin 9.4% SC
652.	Diflubenzuron 20%+ Deltamethrin 2% SC
653.	Dinotefuran 15% + Pymetrozine 45% WG
654.	Dinotefuran 11% + Pymetrozine 36% WG
655.	Dinotefuran 4% + Acephate 50% SG
656.	Dinotefuran 5% + Ethion 50% EC
657.	D-trans-allethrin 0.1% + Permethrin 0.03% + Imiprothroin 0.02% Aerosol
658.	Emamectin Benzoate 1.5% + Fipronil 3.5% SC
659.	Emamectin Benzoate 1.5% + Profenofos 35% WDG
660.	Emamectin Benzoate 5% + Lufenuron 40% WG

661.	Ethion 40% + Cypermethrin 5% EC
662.	Ethiprole 10.7% + Pymetrozine 40% WG
663.	Ethiprole 40% + Imidacloprid 40% WG
664.	Etofenprox 6% + Diafenthiuron 25% WG
665.	Fenazaquin 10% + Bifenthrin 4% EC
666.	Fenobucarb 20% + Buprofezin 5% SE
667.	Fipronil 15% + Flonicamid 15% WDG
668.	Fipronil 4% + Acetamiprid 4% w/w SC
669.	Fipronil 4% + Thiamethoxam 4% w/w SC
670.	Fipronil 40% + Imidacloprid 40% WG
671.	Fipronil 5% + Buprofenzin 20% SC
672.	Fipronil 7% + Hexythiazox 2% w/w SC
673.	Fipronil 8% + Pymetrozine 35% WG
674.	Flubendiamide 19.92% + Thiacloprid 19.92% SC
675.	Flubendiamide 3.50% + Hexaconazole 5% WG
676.	Flubendiamide 4%+ Buprofezin 20% SC
677.	Flubendiamide 7.5% + Kresoxim methyl 37.5% SC
678.	Flubendiamide 8.33% + Deltamethrin 5.56% SC
679.	Hexythiazox 3.5 + Diafenthiuron 42% WDG
680.	Imidacloprid 18.50% + Hexaconazole 1.50% FS
681.	Imidacloprid 20% + Bifenthrin 8% SL
682.	Imidacloprid 21% + Beta-cyfluthrin 10.5% SC
683.	Imidacloprid 6.0% + Lambdacyhalothrin 4.0% SL
684.	Imiprothrin 0.05% + Cypermethrin 1.0% CL
685.	Imiprothrin 0.07% + Cypermethrin 0.20% Aerosol
686.	Imiprothrin 0.1% + Cyphenothrin0.15%
687.	Indoxacarb 14.5% + Acetamiprid7.7% SC
688.	Indoxacarb 5% + Fipronil 5% SC
689.	Indoxacarb 10% + Thiamethoxam 10% WG
690.	Isoprothiolane 28% + Fipronil 5% EC
691.	Novaluron 5.25% + Emamectin benzoate 0.9% w/w SC
692.	Novaluron 5.25% + Indoxacarb 4.5% SC
693.	Phenthoate 45 % + Cypermethrin 6% EC
694.	Profenofos 40% + Cypermethrin 4% EC
695.	Profenofos 40% + Fenpyroximate 2.50%EC
696.	Propargite 42% + Hexythiazox 2% EC
697.	Propargite 50% + Bifenthrin 5% SE
698.	Propoxur 0.5% + Cyfluthrin 0.025% Spray

699.	Propoxur 0.75% + Cyfluthrin 0.025% Aerosol
700.	Pyrethrin 0.05% + Malathion 1% Household
701.	Pyriproxyfen 10% + Bifenthrin 10% EC
702.	Pyriproxyfen 5% + Fenpropathrin 15%EC
703.	Pyriproxyfen 5.0% + Diafenthiuron 25% SE
704.	Pyriproxyfen 8% + Dinotefuran 5% + Diafenthiuron 18% SC
705.	Thiamethoxam 0.4% + Bifenthrin 0.8% GR
706.	Spinetoram 5.66% + Methoxyfenozide 28.3% SC
707.	Spirotetramat 11.01% + Imidacloprid 11.01% SC
708.	Thiamethoxam 0.9% + Fipronil 0.2% GR
709.	Thiamethoxam 1.0% + Chlorantraniliprole 0.5% GR
710.	Thiamethoxam 12.6% + Lambda-cyhalothrin 9.5% ZC
711.	Tolfenpyrad 15% + Bifenthrin 17.5% SE
712.	Transfluthrin 1.0% + Cypermethrin 0.25 % Spray
	A. FUNGICIDES
Sr. No.	**Formulations registered**
713.	Ametoctradin 27% + Dimethomorph 20.27 %SC
714.	Azoxystrobin 11.0%+ Tebuconazole 18.3% SC
715.	Azoxystrobin 11.5% + Mancozeb 30.0%WP
716.	Azoxystrobin 12.5% + Tebuconazole 12.5% SC
717.	Azoxystrobin 120 g/l + Tebuconazole 240 g/l SC
718.	Azoxystrobin 14% + Epoxiconazole 09% SC
719.	Azoxystrobin 16.7% + Tricyclazole 33.3% SC
720.	Azoxystrobin 18.2% + Cyproconazole 7.3% SC
721.	Azoxystrobin 18.2% + Difenoconazole 11.4% SC
722.	Azoxystrobin 4.7% + Mancozeb 59.7% + Tebuconazole 5.6% WG
723.	Azoxystrobin 4.8% + Chlorothalonil 40.0% SC
724.	Azoxystrobin 5.1 % + Tebuconazole 9.1 % + Prochloraz 18.2 % EC
725.	Azoxystrobin 7.1 % + Propiconazole 11.9% SE
726.	Azoxystrobin 8.3% + Mancozeb 66.7%WG
727.	Azoxystrobin 10% + Fipronil 5% w/v SC
728.	Benalaxyl 8.0 % + Mancozeb 65% WP
729.	Benalaxyl-M 4.0% + Mancozeb 65.0% WP
730.	Boscalid 25.2 + Pyraclostrobin 12.8% WG
731.	Captan 70% + Hexaconazole5%WP
732.	Carbendazim 1.92% + Mancozeb 10.08% GR
733.	Carbendazim 12% + Mancozeb 63% WP
734.	Carbendazim 12% + Mancozeb 63% WS

735.	Carbendazim 25% + Flusilazole 12.5% SE
736.	Carbendazim 25% + Mancozeb 50%WS
737.	Carboxin 17.5% + Thiram 17.5% FF
738.	Carboxin 37.5% + Thiram 37.5% WS
739.	Chlorothalonil 40% + Difenconazole 4% w/w SC
740.	Copper Sulphate 47.15 % + Mancozeb30 % WDG
741.	Cymoxanil 8% + Mancozeb 64% WP
742.	Difenconazole 10% + Mancozeb 50 % WDG
743.	Dimethomorph 12% + Pyraclostrobin 6.7% WG
744.	Difenoconazole 6% + Validamycin 6% SC
745.	Famoxadone 16.6% + Cymoxanil 22.1% SC
746.	Fenamidone 10% + Mancozeb 50%WDG
747.	Fenamidone 4.44% + Fosetyl-Al 66.66% WDG
748.	Fenoxanil 5% + Isoprothiolane 30% EC
749.	Fluopicolide 5.56% + Propamocarb hydrochloride 55.6% SC
750.	Fluopyram 17.7 % + Tebuconazole 17.7%SC
751.	Fluxapyroxad 167 g/L + Pyraclostrobin 333g/l SC
752.	Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC
753.	Fluxapyroxad 62.5 g/l + Epoxiconazole 62.5 g/l EC
754.	Fluxapyroxad 75 g/l + Difenconazole 50g/l SC
755.	Hexaconazole 4% + Carbendazim 16%w/w SC
756.	Hexaconazole 4% + Zineb 68% WP
757.	Hexaconazole 5% + Validamycin 2.5%SC
758.	Iprodion 25% + Carbendazim 25% WP
759.	Iprovalicarb 5.5% + Propineb 61.25%WP
760.	Kasugamycin 5% + Copper Oxychloride 45% WP
761.	Kasugamycin 6% + Thiafluzamide 26% SC
762.	Kresoxim methyl 15% + chlorothalonil56% WG
763.	Kresoxim methyl 18% + Mancozeb 54%w/w WP
764.	Kresoxim methyl 40%+ Hexaconazole 8%w/w WG
765.	Mancozeb 40% + Azoxytrobin 7.0% w/w OS
766.	Mancozeb 50% + Thiophanate methyl 25% WG
767.	Mancozeb 60% + Pyraclostrobin 5% WG
768.	Mandipropamid 5.0% + Mancozeb 60.0% WG
769.	Mefentrifluaconazole 133 g/l + Fluxapyroxad 89 g/l + Pyraclostrobin 178 g/l SC
770.	Metalaxyl –M 3.3% + Chlorothalonil 33.1% SC
771.	Metalaxyl -M 3.9% + Mancozeb 64% WG
772.	Metalaxyl -M 8% + Mancozeb 64% WP

773.	Metalaxyl-M 4% + Mancozeb 64% WP
774.	Metiram 44% + Dimethomorph 9% WG
775.	Metiram 55% + Pyraclostrobin 5% WG
776.	Penflufen l3.28% + Trifloxystrobin13.28 FS
777.	Picoxystrobin 6.78 %+ Tricyclazole 20.33% SC
778.	Picoxystrobin 7.05 % + Propiconazole 11.7%SC
779.	Prochloraz 23.5% + Tricyclazole 20% SE
780.	Prochloraz 24.4% + Tebuconazole 12.1% EW
781.	Prochloraz 34.8% + Propiconazole 7.8% EC
782.	Prochloraz 5.7% + Tebuconazole 1.4% ES
783.	Propiconazole 10.7% + Tricyclazole34.2% SE
784.	Propiconazole 13.9% + Difenoconazole13.9% EC
785.	Propineb 54.2%+ Tricyclazole 15.0%WP
786.	Pyroclostrobin 133g/l+ Epoxiconazole50 g/l (w/v) SE
787.	Pyraclostrobin 10% + Fipronil 5% w/v SC
788.	Sedaxane 12.61% + Azoxystrobin 3.15% + Thiamethoxam 22.06% FS
789.	Streptomycin + Tetracycline (90+10)
790.	Tebuconazole 10% + Sulphur 65% WG
791.	Tebuconazole 15% + Zineb 57% WDG
792.	Tebuconazole 50% + Trifloxystrobin 25% WG
793.	Tebuconazole 6.7% + Captan 26.9% SC
794.	Thiophanate Methyl 38 % + Kasugamycin 2.23 SC
795.	Thiophanate Methyl 450g/L+ Pyroclostrobin 50 g/L FS
796.	Tricyclazole 18% + Mancozeb 62% WP
797.	Tricyclazole 18.0 + Tebuconazole 14.4% SC
798.	Tricyclazole 20.4 % + Azoxystrobin6.8% SC
799.	Tricyclazole 45% + Hexaconazole 10% WG
800.	Triticonazole 80 g/l + Pyraclostrobin 40% g/l FS
801.	Valifenalate 6% + Mancozeb 60% WG

	HERBICIDES
Sr. No.	**Formulations registered**
802.	2, 4-D Sodium Salt 44% + Metribuzin 35% + Pyrazosulfuron ethyl 1.0% WDG
803.	Ametryn 73.1% + Trifloxysulfuron Sodium 1.8% WG
804.	Anilofos 24% + 2,4-D Ethyl Ester 32% EC
805.	Bensulfuron methyl 0.6% + Pretilachlor 6% GR
806.	Bensulfuron methyl 4.8% + Pretilachlor 48% OD
807.	Bispyribac Sodium 20% + Pyrazosulfuron Ethyl 15% WDG
808.	Bispyribac Sodium 38% + Chlorimuron ethyl 2.5%+ Metsulfuron Methyl 2.5% (w/w) WG
809.	Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW
810.	Carfentrazone ethyl 20% + Sulfosulfuron 25% WG
811.	Clodinafop propargyl 15% + Metsulfuron methyl 1% WP
812.	Clodinafop propargyl 9% + Metribuzin 20% WP (w/w)
813.	Clomazone 20% + 2,4-D Ethyl Ester 30% EC
814.	Clomazone 22.5% + Metribuzin 21% WP
815.	Fenoxaprop-p-ethyl 7.77% + Metribuzin 13.6% EC
816.	Florpyrauxifen- benzyl 1.31% + Penoxsulam 2.1% OD
817.	Florpyrauxifen-benzyl 2.13% w/w + Cyhalofop-butyl 10.64% w/w EC
818.	Fluazifop-p-butyl 11.1% + Fomesafen 11.1% SL
819.	Fluthiacet-methyl 2.5% + Quizalofop-ethyl 10% EC
820.	Fomesafen 12% + Quizalofop ethyl 3% SC
821.	Glufosinate ammonium 13.4% + Oxyfluorfen 4.8% w/w EW
822.	Halauxifen methyl 20.8% + Florasulam 20.0% w/w WG (With Surfactant Polyglycol 26-2 N)
823.	Halosulfuron methyl 12% + Metribuzin 55% WG
824.	Halosulfuron methyl 5% + Atrazine 48% WG
825.	Hexazinone 13.2% + Diuron 46.8 % WP
826.	Imazethapyr 35% + Imazamox 35% WG
827.	Indaziflam 1.65% + Glyphosate Isopropyl Ammonium 44.63% SC
828.	Mesosulfuron methyl 3% + Iodosulfuron methyl sodium 0.6% WG
829.	Mesotrione 2.27% + Atrazine 22.7% SC
830.	Metribuzin 42% + Clodinafop propargyl 12% WG
831.	Metsulfuron methyl 10% + Carfentrazone ethyl 40% DF
832.	Metsulfuron methyl 10% + Chlorimuron ethyl 10% WP
833.	Oxadiargyl 1% + Pretilachlor 6% GR
834.	Oxyfluorfen 2.5% + Glyphosate (Isopropyl amine salt) 41% SC
835.	Pendimethalin 30% + Imazethapyr 2% EC
836.	Pendimethalin 35% + Metribuzin 3.5% SE
837.	Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC

838.	Pendimethalin 40% + Metribuzin 8% EC
839.	Penoxsulam 0.97% + Butachlor 38.8% SE
840.	Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD
841.	Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG
842.	Pretilachlor 6% + Pyrazosulfuron Ethyl 0.15% (H)
843.	Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR
844.	Propaquizafop 2.5% + Imazethapyr 3.75% w/w ME
845.	Propaquizafop 5% + Oxyfluorfen 12% w/w EC
846.	Pyriftalid 31.0% w/w + Bensulfuron methyl 15.7% w/w SC
847.	Pyrithiobac Sodium 3.1 % w /w + Pendimethalin 34.0 % w/w ZC
848.	Pyrithiobac Sodium 6% EC w/w + Quizalofop-ethyl 4% w/w EC
849.	Quizalofop ethyl 10% EC + Chlorimuron ethyl 25% WP + Surfactant (0.2) (Herbicide) (Twin pack)
850.	Quizalofop ethyl 4% + Oxyfluorfen 6% EC
851.	Quizalofop ethyl 7.5% + Imazethapyr 15% w/w EC
852.	Sodium Acifluorfen 16.5% + Clodinafop propargyl 8% EC
853.	Sulfentrazone 28% + Clomazone 30% WP
854.	Sulfosulfuron 75%+ Metsulfuron Methyl 5% WG
855.	Topramezone 10 g/l + Atrazine 300 g/l SC
856.	Triafamone 20% + Ethoxysulfuron l0% WG
	PLANT GROWTH REGULATORS
Sr. No.	**Formulations registered**
857.	Cyclanilide 2.10% w/w +Mepiquat Chloride 8.40% w/w SC
858.	Gibberellic acid 1.8% + 6-Benzyladenine 1.8% L
	PLANT GROWTH REGULATORS + FUNGICIDES
Sr. No.	**Formulations registered**
859.	Tricontanol 80g/ L + Pyraclostrobin 40g /L FS

Source of Import and List of Indigenous Manufacturers of Technical Grade Insecticides:

* To be informed. – Information will be updated when department receives latest data on these molecules.

S. No.	Common Name	Approved Source for Import (M/s)	Indigenous manufacturers (M/s)
1.	2.	3.	4.
1.	2,4-D Ethyl Ester Technical 97% min.	---	1. Ambey Laboratories Pvt Ltd, New Delhi 2. Atul Ltd.,Valsad 3. Best CropScience 4. Bharat Rasayan Ltd., Delhi 5. Crystal Phosphates, Delhi. 6. Insecticides India Ltd, Delhi 7. Megmani Organics Ltd., Ahmedabad 8. Swati Chlorides Pvt Ltd,Vadodara
2.	2,4-D Sodium Salt Technical 94.5% min. (80% min Dichlorophenoxy acitic acid)	---	1. Agro Life Science Corporation 2. Agro Allied Venture Pvt. Ltd. 3. Atul Ltd.,Valsad 4. Best Crop Science Pvt. Ltd. 5. Bhanshidhar Chemicals 6. Bharat Rasayan Ltd. Delhi 7. Bhaskar Agrochemicals Ltd., Hyderabad 8. Excel Phosphate Pvt. Ltd. Delhi 9. Hemani Industries Ltd., 10. Indogulf Cropsciences Limited 11. Insecticides India Ltd, Delhi 12. Megmani Organics Ltd., Ahmedabad
3.	Abamectin Technical 90%, 92%, 95% w/w min*	1. Syngenta Crop Protection, USA. 90.0% min (369th RC) 2. *Hebei Veyong Bio Chemicals Co Ltd. East Heping Road, Shijiazhuan City, Hebei, Province China (371/372nd RC) 3. Hebei Xingbai Agricultural Technology Co. Ltd., Address: Nanbaishe Bio-Industrial Park, Zhao Country, Hebei Province, 051530, China Formerly known as Shijiazhuang Xingbai Bio-engineering Co. Ltd., Add: Xingbai Industry Zone, Zhao Country, Hebei Province, 051530, China and supplied by Shenzhou Chemical (Shenzhen) Co. Ltd., Add: Rm. 1211-1212, Exhibition Times Centre, Block C, Royal Plaza, Yitian South Rd. Futian District, Shenzhen Guangdong, China. (92%) (439th RC)	

4.	Abamectin 1.9% w/ wEC	Syngenta Crop Protection AG Switzerland (369th RC)	
5.	Acephate Technical 97% min, 99% min.,	1. Chevron Chemical InternationalInc., USA. 2. Zing Hung Fine Chemical,South Korea. 3. Sundet (S) Pte. Ltd, Singapore 4. Tianjin Rotam Chemical Industries Co. Ltd, Tianjin, China. 5. Zhenjiang Hangzhou Metals Minerals Machinery & Chemical, I- E Crop, Hangzhion, China 6. Hubei Sanonda Co. Ltd. 93, East Beijing Road Jiangzhou, Hubei, China – 434001. (97.0% min) (366th RC) 7. Nantong Weilike Chemical Co., Ltd., Yangkou Chemistry Industrial Park, Rudonk Country, Jiangsu Province, 226407, China. Through Supplier: Willowood (Hangzhou) Co. Ltd., Room-No. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province China. (97%) (390th RC) 8. Jiangsu Lanfeng Biochemical Co. Ltd. Suhua Road, Xinyi Economic & Technology Development Zone, Jiangsu, China (417th RC) (97%)	1. Agrisol (I) Pvt. Ltd .97.0% min, 2. Agro Life Science Corporation 3. Bayer Crop Science 4. Best Crop Science LLP, Gajraula, UP 5. Cheminova India Ltd., Mumbai 6. Gharda Chemicals Ltd. 7. Hemani Industries Ltd 8. Heranba Industries Ltd, Mumbai 9. Hindustan Insecticides Ltd., New Delhi 10. HPM Chemicals & Fertilizer-sLtd., 11. Hyderabad Chemical Product-sLtd. 12. India Pesticides Limited, Bareilly 13. Insecticides IndiaLtd 14. Jai Shree Rasayan Udyog Ltd. 97.0%min, 15. Ichiban Crop Science Ltd. (421st RC) 16. UPL limited Mumbai, 99.0% min, 9(3), (403rd RC) 17. Megmani Organics Ltd.,Ahmedabad 18. Oriyo Organics Pvt. Ltd.,Yamunanagar, 97.0% min, 19. Punjab Chemicals & Crop Protection Ltd 20. Sabero Organics Gujarat Ltd. 21. Shaw Wallace, Chennai 22. Shivalik Rasyan Limited, New Delhi 23. Spectrum Ethers Ltd. 97.0% min, 24. Sudarshan Chemical Industries Ltd.,

6.	Acetamiprid Technical 99% w/w min.	1. ZhejiangHisun Chemical Co. Ltd., No. 97, Waisa road, Jiaojiang, Taizhou, Zhejiang, China Supplier –Willowood Ltd., Hong Kong (244th RC) 2. Zhengzhou Labor Agro-chemicals Co. Ltd Formerely known as Sanonda Zhengzhou pesticides Co. Ltd Factory address 57, South City road, Zhengzhou, Henan, China through Supplier - Agro Dragon Co. Ltd, Rm. 822, EastBuilding No. 1500, Century Avenue, Pudong New Area, Shanghai- 200122, China (269thRC) 3. Hebei Yetian Agrochemical Co. Ltd. Industrial Zone, South of Yuanshi country, Shijianzhuang, China. Through Supplier: Hebei Bestar Commerce and Trade Co. ltd., 6-3-203 no.66 Dianda StreetXinhuaDistrict, Shijianzhuang, China. (393rd RC), 99%w/w min), 4. Hengshui Northern & Chemical Co. Ltd., Xiaozhang Industrial Zone, Zaoqiang Country, Hebei Province, P. R. China through supplier Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No 118, Quingchun Road, Xiacheng District, Hangzhou City, ZhejiangProvince, China (421st RC) 5. Qingdao KYX Chemicals Co. Ltd., Guhe Industry Zone Shui Laxi City, Quingdao, China (approved by Indogulf Cropsciences Ltd.in 427th RC, 99% Min.)	1. Rallis India Limited, Bangaloreu/s 9(3) 238th RC 2. Gharda Chemicals, Mumbai, u/s 9(3) 3. 238th RC 4. Punjab Chemicals & 5. CropProtection Ltd. 6. Crystal Phosphates Ltd. 7. Tagros Chemicals India Limited,Chennai 8. Atul Limited,Vapi 9. Hyderabad Chemicals ProductsLimited, Hyderabad 10. GSP Crop Science Private Limited,Ahmedabad 11. Astec Chemicals Private Ltd. 12. Rotam India Limited, Mumbai 13. Salvi Chemical Industries, Mumbai 14. Insecticide IndiaLtd,Delhi 15. Spectrum Ethers Limited, 16. Bharat Rasayan Limited, New Delhi. 17. Sabero Organics Gujarat Limited 18. India Pesticide Ltd 19. Hernaba Industries Ltd. 20. Meghmsni Orgsnics Ltd. 21. Sudarshan Chemical Industries Ltd. 22. Bhagiradha Chemicals and Industries 23. HPM Chemical & Fertilizers Ltd. 24. Crimsum Organics Pvt Ltd.
7.	Ametoctradin Technical 98% Min		BASF INDIA LIMITED 9(3)
8.			98.0 Min.
9.			
10.	Afidopyropen 50 g/l DC (FI- WRT)	BASF Agri Production S.A.S, Zone Industrielle Lyon Nord, Rue jacquard, 69727 Genay, France, (388th RC)	
11.	Allethrin Technical 90% min. Allethrin Tech. containing d- Allethrin 90% w/w min.	1. SumitomoChemical Co.15,5-Chome, Aitahama, Higashi- kuOsaka, Japan 2. Hoechst Schering Agr. Evo SAParis, France	1. Sumitomo Chemical India Ltd.,Mumbai. 2. Shogun Organics Ltd., Mumbai 3. Manakshia Ltd ,Mumbai

12.	1. Alphacypermethrin Technical 95% min. 2. Long Lasting Nets Impregnated with Alphacypermethrin 0.667% w/w for import*	1. Cynamid Quimica do Brasil Ltd., Resendez, Brazil (177thRC) 2. *Sunshine World Net 2003 Co.Ltd., 18/2 Moo 7, Rattanatibet Road, Bangkrasor Muang Nonthaburi, 11000, Thailand. (365thRC)	1. Gharda Chemicals Ltd., Mumbai. 9 (3) in 127th RC 2. BASF India Ltd., Mumbai 174th RC 3. Coromandel International Ltd.,Secundrabad 4. Rotam India Limited ,Mumbai 5. Gujarat Agrochem Limited,Mumbai 6. Insecticide India Limited 7. Punjab Chemicals & Crop Protection Ltd 8. Hemani Industries Ltd., Ankleshwar 9. Heramba Industries Ltd 10. Megmani Organics Ltd.,Ahmedabad 11. Bharat Rasayan Ltd., Delhi 12. Tagros Chemicals India Ltd.,Chennai 13. HPM Chemicals & Fertilizers Ltd., 14. JaiShree Rasayan Udyog Ltd. 15. Dharmaj Crop Guard Ltd. 16. Ichiban Crop Science Limited
13.	Alpha naphthyl Acetic Acid 98% min.	Universal Crop Protection Ltd., UK	-
14.	Ametoctradin Technical 98% min	BASF SE,D-67056 Ludwigshafen, Germany (375th RC)	
15.	Ametryn Technical 95.00% Min.		1. Best Crop Science Pvt. Ltd. 2. Ichiban Crop Science Limited 3. Meghmani Industries Limited 9(3)
16.	Ametroctradin 27% + Dimethomorph 20.27% SCFI	1. BASF Espanola S.L, Ctra. Nacional, 340 Km 1156, 43006 Tarragona, Spain. (by BASF India Ltd., Mumbai in 342ndRC)	
17.	Ametryn 80% WG (FI-WRT), technical *95% w/w min.	Adama Agan Ltd., P.O.B. 262, Northern Industrial Zone, ASHDOD, Israel (359th RC)	1. Meghmani Industries Ltd. 9(3) (426th RC)
18.	Amisulbrom Technical 98.5% w/w min.	Dhanuka Agritech Limited	
19.	Anilophos Technical 93% min.	Bayer Crop Science AG, Germany. Sourcechange toM/sBayer-AG,Ger many, (By Bayer Crop-ScienceLtd.- 93% in 392nd RC).	1. BayerCropScienceLtd.,Mumbai. 2. Gharda Chemicals Ltd.,-Mumbai. 3. Hyderabad Chemical PvtLimited.

20.	Atrazine Technical 80%, 95% min*, 96% w/w min. 97% min.	1. Agan Chemical Mfrs. Ltd., Israel 2. Makhteshim Agan Beer-Sheva, Israel. 3. Intrachem, SA, Switzerland 4. Fisons Ltd., Houston, UK 5. Oxon Italia, Italy. 6. Zhejiang Zhongshan Chemical Industry Group Co., Ltd. Zhongshan, Xiaopu, Changxing, Zhejiang Province, 313 116, China. (for 95%min) Through Supplier: Hebei Bestar Commerce andTradeCo.Ltd.,6-3- 203No.66 Dianda Street, Sinhua District, Shijiazhuang, China (345th RC).7. Shandong Qiaochang Chemical Co. Ltd., South of Xinyongshen Road, Binbei, Bincheng District, Binzhou City, Shandong, China, 98.0% min (360thRC). 8. Shandong Dehao Chemical Co. Ltd., Lingang Chemical Park, Binhai Economic, Weifang, China. through supplier Willowood (Hangzhou) Co. Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (418th RC, 97% Min.) 9. Syngenta India Ltd.(431ST RC) 10.	1. Best Crop Science LLP, Gajraula,UP 2. GSP Crop Science Pvt. Ltd. 3. HPM Chemicals & Fertilizers Ltd.,95.0% min, . 4. Insecticide India Ltd 5. Maheshwari Biochemicals Pvt. Ltd., 95.0% min, . 6. Meghmani Industries Ltd.* 7. Nagarjuna Agrichem, Hyderabad 8. Pesticides India, Udaipur 9. Rallis India Ltd.,Bangalore

21.	Azoxystrobin Technical 97% min, 95% min, 96% min, 98.00% min 96.5% w/w min.* 93.0%w/w **	1. Shangyu Nutrichem Co. Ltd. No. 9, Wejin Rd., Hangzhou Bay Shangyu Industrial Area, Zhejiang 312 369, China through Supplier Nutrichem Company Ltd., building D01, No 66 XIXAOKOU road, Haidian dist. Beijing China (98.0%w/w Min, in 367th RC New Source). 2. Ziangsu Pesticides Research Institute Co. Ltd., No. 269, Changfenghe Road, Nanjing Chemical Industry Park, Luhe Dist.Nanjing China through Supplier: Pioneer Fortune International Ltd., Room 1318-20, 13/FHollywood Plaza, 610 Nathan RoadMonglok Kowloon, HongKong (98.0 % w/w Min, in 367th RC New Source). 3. *ADAMA Makhteshim Ltd. (Formerly known as Makhteshim Chemicals-Work Ltd.) P.O. Box 60 Industrial Zone Beer Sheva, 84400, Isreal. 96.5 % Min (By ADAMA Makhteshim Ltd. Hyd. In 366th RC) 4.**Syngenta Ltd, Grangemouth, Mfg. Center, United Kingdom (354thRC purity 93.0 %w/w min) 5. Shanghai Heben East sun Medicaments Co. Ltd., South of Tinglin Industrial Park, Jinshan, Shnaghai, China through supplier F. J. Agrochemicals Co. Ltd., Rm 281, No. 500, Zhangyang Road, Pudong District, Shanghai, China (417th RC). 6. Shandong Hailir Chemicals Co. Ltd., Lingang Industrial zone, Coastal Econ, Development Zone, Weifang, Shandong, China (424th RC 97% min.)	1. UPL Limited, Mumbai, 95.0 % w/w Min,TIM vs TI 9(3) in 360th RC 2. Coromondel International Ltd., Secunderabad, 97.0 % Min, TIM vsTI 9(3) in 371/372nd RC 3. G.S.P.CropSciences Pvt. Ltd 95.0 % w/s. Min, TIMvsTI 9(3) in 362ndRC 4. Cheminova India Ltd., Mumbai, 9(3),95.0%w/wMin,TI-Min366thRC 5. ParijatIndustries(India)Pvt.Ltd. New Delhi, 9(3), 96.0 % w/w Min, TIM in 389th RC. 6. Bhagiradha Chemicals &Industries Ltd.,[purity 95% min.] 7. Insecticides India Ltd., 95% w/wmin. under section TIM. in 395thRC 8. Gharda Chemicals Ltd., 96% min. , in405thRC. 9. Meghmani Industries Ltd. in421st RC 10. Bhagiradha Chemicals & Industries Ltd. approved in 425th RC, 95% w/w min. 11. FIL Industries Ltd.,95%, , in 437 RC 12. R3 Crop Care Pvt. Ltd., 95.00% w/w min. in 435 RC 13. Maheshwari Biochemical Pvt. Ltd., 95.00% w/w min. in 437 RC. 14. Universal Agro Chemical Industries. 15. Crop Care Organics LLP 16. AIMCO PESTICIDES LIMITED 17. HemaniIndustries Ltd., 18. Heranba Industries Limited 19. Greenkem Organics Private Limited 20. Bharat Rasayan Ltd 21. Agro Life Science Corporation 22. Sahib Pesticides 23. Ichiban Crop Science Limited 24. Agrow Allied Ventures Private Limited 25. NACL Industries Limited 26. Agrisol (india) Pvt. Ltd 27. PUNJAB CHEMICALS AND CROP PROTECTION LIMITED 28. Anu Products Limited 29. Hikal Limited 30. CROP LIFE SCIENCE LTD.

22.	1.Azoxystrobin Technical & 23% SC (FI-WRT) 2. Azoxystrobin 11.0 + Tebuconazole18.3%w/wSC* (FI-WRT of Azoxystrobin) 3. Azoxystrobin 7.1% + Propiconazole 11.9% w/w SE** 4. Azoxystrobin 4.7% + Mancozeb 59.7% + Tebuconazole 5.6% WG	1. Syngenta Ltd, Grangemouth, Mfg. Center, United Kingdom (258thRC) 2. *Makhteshim Chemical Works Limited, P.O Box No. 60, Industrial Zone, Beer Sheva, 84100, Israel (347thRC) 3. **Adama Makhteshim Ltd, PO Box 60, Industrial zone, Beer Sheva, 84100, Israel Through Supplier Adama Celsius BV Curacao Branch, Pos Cabai Office Park Unit 13,P.O.Box-403,Curacao(366thRC)	
23.	Azimsulfuron 50% DF (FI--WRT)]	DuPont de Nemours (France) S.A.S.82, Cerney Cedex France through Du Pont International Operations, Geneva, Switzerland (329th RC)	
24.	Amisulbrom 17.7 %(w/w) FI- WRT	Nissan Chemical Industries Ltd., Kowa Hitotusubashi Building, 7-1, 3- Chome Kanda- Nishiki Cho, Chiyoda-Ku, Tokyo – 101-0054, Japan and supplier Nissei Corporation, 10-5 Nihonbashi-Honcho, 1-Chome, Chuo-Ku, Tokyo 103- 0023, Japan. (417RC)	-
25.	Barium Carbonate	To be informed.	
26.	Benalaxyl Technical 92.0 % w/w Min		F.M.C. India ltd, Bangalore under section 9 (3) in 386th RC
27.	Bendiocarb Technical 96%min.	BayerCropScience,USA(By Bayer bcrop Science IndiaLtd., Mumbai in256hRC)	
28.	Benfuracarb Technical 96%min.	Otsuka Chemical Co Japan (240RC)	Coromandel International Ltd., Secunderabad
29.	Bensulfuron Methyl Technical 96% min, 97% min.	1. E.I DuPont Agricultural Chemicals Ltd., Shangai, P.R. China through supplier DuPont Company SingaporePvt. Ltd., Singapore. (96.0% min. (289th RC) 2. Shijiazhuang Richem Co. Ltd. No. 148, Yuhua Road, Chang District, Shijiazhuang, China through Supplier –388thRC) 3. Jiangsu Repont Agrochemical Co. Ltd China (424th RC 97% min.)	
30.	Bensulfuron Methyl 60% DFFI	1. E.I DuPont Nemours Australia, 179 Magowor Road, Girraween NSW, Australia 2145 through Supplier DuPont Company Singapore Pvt. Ltd., 1, Harbour Trust Place, 11-01, Harbourtrust, Tower One, Singapore – 098633 (282nd RC)	

31.	Bentazone 480 gm/l SL, (FI-WRT)	1. BASF SE, Carl-Bosch-Strauss 38, 67056 Ludwigsfen, Germany (362ndRC)	
32.	Bentazone 50% MUP	BASF INDIA LIMITED	
33.	Bentazone 96% w/w min. Technical	BASF SE, Carl-Bosch-Strase38,67056 Ludwigshafen, Germany (392ndRC)	
34.	Benomyl Technical 95% min.	1. E.I.DupontdenumoursCo.,Inc. USA 2. Taicang Pesticide Factory, Jiangsu,China. Through Supplier Jiangasu Jiatai Chemical company Ltd., Nanging,China	
35.	Beta-cyfluthrin Technical 96.5% min	1. Mitchell Cotts Chemicals Ltd., P.O. Box No. 6, Mir field, WestYorkshire INF148QB, United Kingdom Bayer Crop Science AG, Germany., (223rdRC) Source Change to (392nd RC)	1. Bilag Industries Pvt. Ltd (U/s9(3) 96.5% min. in 339thRC) 2. Hemani Industries Ltd.,
36.	Benthiocarb Technical 93% min. (Thiobencarb)	Kumiai Chemical Industries Co. Ltd., Japan	
37.	Benzpyrimoxam technical 93.7% min		1. Nichino Chemical India Pvt. Ltd. u/s 9(3) approved in 427th RC
38.	1. Bifenazate 50% WP 2. Bifenazate 22.6% SC	1. Chemtura USA Corporation, 364 Fitzgerald Highway, Ocilla, GA 31774 – USA (321st RC 22.6% SC) 2. UPL NA Inc, 630 Freedom Business Center, Suite 402, King of Prussia, PA, USA 19406 changed from Chemtura Company Inc Boid Corporation, 364 Fitzgerald Highway, Ocilla, GA 31774, USA (426th RC meeting for 22.6% SC)	

39.	Bifenthrin Technical, 92% w/w min., 95% min, 96% min, 97% min. 23.4% MUP * and 8% SC,**	1. FMC Corporation, 1735, Market Street, Philadelphia, PA 19103, USA (240thRC) 2. *FMCAsiaPacific1800Zhongohan xiLu, Shangai 200235, China 23.4%MUP * (297thRC) 3. Nihon Nohyaku Co. Ltd.,Tokyo,Japan 4. JiangsuChanglongAgrochemicalsCo. Ltd., China through Supplier Willowood (Hangzhou) Co' Ltd. Room No. 2003, Golden Plaza, No. 118, Qingchun Road. Xiacheng-District,HangzhouCity'Z hejiang Province, China. (362ndRC) 5. **FMCCorporation, AgriculturalProducts Group,1735, MarketStreet,Philadel aphia, PA,USA,8%SC,(312ndRC) 6. Shandong United Pesticide Industry Co. Ltd., Building #1, Middle Shengli Road, Daxin Village, Fan Town, Daiyue District, Taian City, Shandong, P. R. China supplied by Shandong Sino-Agri United Biotechnology Co. Ltd., No.28, Sangyuan Road, Jinan City, China (424th RC 96% min.) 7. Jiangsu Chunjiang Runtian Agrochemical Co. Ltd., Add: No. 6, Huaihong Road, Huaian Salt Chemical Industrial Park of Hongze Area, huaian City, Jiangsu Province, ChinaSupplied by Shanghai Agrotree Chemical Co. Ltd., Add: Room B515, No. 2250, South Pudong Road, Pundong, Shanghai-200127. (436 RC) through Supplier 8. Nanjing Bodao Logistics Co. Ltd., Address: B#35, No. 420, Wangxin Road, Luhe District, Nanjing, Jiangsu, P.R. China (431th RC, 97%)	1. United Phosphorous Ltd,Vapi 9 (3) in 266thRC 2. Insecticides IndiaLtd,Delhi GSPCropSciencePvtLtd, Ahmedabad. 3. Bharat RasayanLtd.,Delhi 4. HPM Chemicals &FertilizersLtd., MeghmaniIndsustriesLtd, Ahmedabad 5. BestCropScienceLLP,Gajraula, UP 6. ShagunOrganicsLtd.Mumbai,92.0 Min. 7. AgricoOrganicLtd.92.0Min 8. JaiShreeRasayanUdyogLtd.,New Delhi, 92.0 Min 9. Agrow Allied Ventures Pvt.Ltd., in 393rd RC, 92.0% Min. 10. M/sIchibanCropScienceLtd.,92% Min.,, in405thRC. 11. India Pesticides Ltd., 92% Min.,, in434thRC. 12. Agro Life Science Corporation, 92% Min.,, in434thRC. 13. R3 Crop Care Pvt. Ltd., 92% Min.,, in434thRC 14. Krishi Rasayan Export Pvt. Ltd. (436th RC) 15. Shivalik Rasayan Limited 16. Dharmaj Crop Guard Limited 17. MAHAMAYALIFESCIENCE PVT. LTD. 18. NACL Industries Limited 19. Crystal Crop Protection Ltd 20. Agrisol (india) Pvt. Ltd 21. HemaniIndustries Ltd.,
40.	Bispyribac- sodium 10% SC (FI-WRT)	Kumaiai Chemical Industry co. Ltd., 4-26, Ikenohata 1-chome, Taitoh-Tokyo,Japan (297th RC)	

41.	Bispyribac- sodium Technical 95% min, 96% min* 98% w/w min.	1. *Jiangsu Flag Chemical Industry Co. Ltd., Chengfenge Road, nanjing Chemical Industry Park, Luhe, Nanjing, China 210047(approved by Parijat Industries (India) Pvt. Ltd. in 426th RC meeting), 96% min. 2. Shijiazhuang Richcnr Co. Ltd., No.148, trast Yuhua Road, 050031 Hebei China (430th RC) 3. Manufactured by Jiangsu Runze agro Chemical Co. Ltd., No. 16, houyang hua gong yuan qu road, jintan Jiangsu, china (439th RC) Willowood chemicals Pvt. Ltd. 4. MAHAMAYA LIFESCIENCES PVT. LTD. 5. Willowood Chemicals Pvt. Ltd.	1. GhardaChemicalsLtd. 9(3) 95.0% min in 365thRC 2. InsecticidesIndiaLtd.U/s9(3) 95.0% min in 365thRC 3. Godrej Agrovet Ltd. U/s9(3) 4. 95.0% min in 368th RCExcel Crop Care Ltd. 9(3) 95.0% min in371/372thRC 5. ADAMA India Pvt. Ltd. Hyderabad, 9(3) 95.0% min in 371/372thRC 6. Indofil Indusitres Ltd., Mumbai, 95% min. 9(3), in 386thRC. 7. PI Industries ltd, Udai-pur95%min.9 (3), in399thRC. 8. CoromandelInternational Ltd., 95% min., in386thRC. 9. Best Crop Science LLP, 95% min., in386thRC. 10. Punjab Chemicals and Crop Protection Ltd., 95%min., in 395thRC 11. CropnosysIndiaPvt.Ltd.,95% w/w min.,in 407thRC 12. HPM Chemicals and Fertilizers Ltd., 95% w/w min.,in 437thRC 13. Heranba Industries Limited 14. Greenkem Organics Private Limited 15. Greenkem Organics Private Limited 16. Crimsun Organics Private Limited 17. Crop Care Organics LLP 18. Agrisol (india) Pvt. Ltd 19. FIL INDUSTRIES LIMITED 20. Agro Life Science Corporation 21. Crystal Crop Protection Ltd 22. Bharat Rasayan Ltd 23. Crimsun Organics Private Limited 24. NACL Industries Limited 25. Ichiban Crop Science Limited 26. CROP LIFE SCIENCE LTD.
42.	Bitertanol Technical 95% min.	1. Mfd. By Makhteshim Chemical Works Ltd., P.O.Box 60,BeerSheva-84100,Israel for Bayer CropScience AG, Germany., Source change to M/sBayer AG,Germany (392nd RC)	
43.	Boscalid 25.2% + Pyraclostrobin 12.8 % WG(FI- WRT) Bocalid Technical , 96, 98% w/w min,	BASF Corporation Sparks plant, 14284, highway 41 North, Sparks Georgia 31647, USA(363rd RC)	1. UPL LTD. 436th RC 2. Coromandel International Ltd. (432th RC)

44.	Bromadiolone Technical 93.5%min.	Lipha Pharmaceuticals, France.	1. Rotam India Ltd,Mumbai 2. Sudarshan Chemical Industry Ltd. Pune 3. Rallis India Ltd 4. Fytocare Chemicals 5. Pvt Ltd.Ultima Search, Gurgaon, 93.5%min. 6. Best Crop Science Pvt. Ltd.
45.	Buprimate 26.7 % w/w EC (FI-WRT)	ADAMA Makhteshim Ltd (Formerly Known as Makhteshim Chemical WorksLtd) PO Box No.60Industrial Zone Beer Sheva, 84100, Israel (379th/380thRC)	
46.	Broflanilide technical 98.7% w/w min. Broflanilide 20% SC Broflanilide 300 G/L SC	1. Mitsui Chemicals Agro Inc. Nihonbashi Dia Building, 1-19-1, Nihonbashi, Chuoku, Tokyo 103 0027, Japan. (98.7 % min. 9(3) TI, in 436 RC) 2. BASF Corporation (sparks plant),14284 highway 41N, SPARKS, Georgia 31647, USA (436TH RC)	
47.	Buprofezin Technical 98%min.	1. Nihan Nohyaku Co. Ltd. Tokyo, Japan. 2. Nanjing Suyan Kechuang Agrochemical Co. Ltd., Xiangji, Tongshan, Jiangning, Distirct, Nanjing,Jiangsu,China 3. Jiangsu Sevencontinent Green Chemical Co. Ltd. Ad- No. 28, Chengbei Road, Zhangjiagang, Jiangsu-215600 (China) Through Supplier: Shenzhou Chemical(Shenzhen) Co. Ltd, China (323rd RC). 4. NanjingSuyanKechuangAgrochemicalsco Ltd,Xiangji,Tongshan,Jiangning, Distirct Nanjing, Jiangsu, China. through Supplier Pioneer Fortune Internation Ltd., Hong Kong, China (286th RC) Change to Jiangsu Pesticide Research Institute Co. Ltd. No. 269, Changfenghe Road, Nanjing Chemical Industry Park, Nanjing, Jiangsu Province, China. 5. Jiangsu Anpon Electrochemical CompanyLtd., 30, Huagong Road, Huaian. Jiangsu, China-223002 Through Supplier H.K.Heaven-Crop Int'l Chem Ltd., Flat D, 11/F, The Cairn Hill,Tsuen-Wan,N.T.Hong Kong (348th RC) 6. Jiangsu AnponElectrichemical Co. Ltd., Changed To- ADAMA Anpon (Jiangsu) Ltd., China	1. Coromandel International Ltd., Secunderabad, 9 (3) in308thRC 2. Hyderabad ChemicalProductsLtd. 3. HindustanInsecticidesLtd. 4. HPM Chemicals & FertilizersLtd., 5. Meghmani Indsustries Ltd,Ahmedabad 6. Best Crop Science LLP, Gajraula, UP,98% min.,u/s. 7. AgricoOrganicsLtd.,98%min , in386thRC 8. Gujarat Insecticides, 98% min.,, in401stRC 9. Ichiban Crop Science Limited 10. Agrisol (india) Pvt. Ltd

48.	Bacillus Species Thruingiensis Berliner var. Kurustaki Serotypes 3a, 3b, SA II WG	1. Cetris, USALLC 2. Thermo Triology Corporation,USA	Margo Biocontrols Pvt. Ltd.
49.	Butachlor Technical 85% min	1. Monsanto Agricultural Products Co., USA through Supplier Sinochem International (Overseas) Pte. Ltd., 9	1. Hindustan Insecticides Ltd., Delhi. 2. Montari Industries Ltd., Delhi. 3. Siris India Ltd., Hyderabad 4. Agrico Oragincs Limited
50.	*ButachlorTechnical 95%min.	1. Raffles Place,50-01 Republic Plaza, Singapore - 048619 2. Shen Hong Chemical Corporation,Taiwan 3. Shinung Corporation Taichung, Taiwan. Source change to SINON Corporation Taichung, Taiwan 4. * Nantong Jiangshan Agro Chemical & Chemicals Limited Liability Co., Add-998, Jiangshan Road, Nantong Economic & Technological Development Zone, Nantong, Jiangsu China through supplier Sinochem International Corporation Add- 19/F, Jinmao Tower, No. 88, Century Boulevard, Pudong New Area, Shanghai200121, P. R. China (413th RC) 5. * Jiangsu Lulilai Co. Ltd., Add:- No.2, Shugang Road, Xiangshui Eco- Chemical Industrial Park, Jiangsu Province, China through supplier Chongqing Shining Fine Chemicals Co. Ltd., Add:- 28-3 Citic Commerce No. 5 Yanghe San CunJiangbei District Chongqing, China (approved by Crystal Crop Protection Pvt. Ltd. In 428th RC) 6. * Sinochem International corporation, 19/F, Jinmao Tower, No. 88 Century Boulevard, Pudong New Area, Shanghai 200121, P R China changed to Sinochem International Crop Care (Overseas) Pt. Ltd., 1 Raffles Place #59- 00 One Raffles Place Singapore 048616 (428th RC)	1. Insecticides India Ltd. 2. JaishreeAgroIndustriesLtd, Delhi 3. Hyderabad Chemical Products Ltd. 4. Coromandel International Ltd.,Secunderabad 5. Bharat Rasayan Ltd.,Delhi 6. SudarshanChemicalIndustries Ltd.,Pune 7. Agrico Organics Ltd., 85% w/w min.,437RC
51.	Captan Technical 90% min.	1. Chevron Chemical Co.,USA 2. Makhteshim Agan, Israel 3. Makhteshim Chemical Works Ltd., Beer, Sheva Israel.	1. Rallis India, Mumbai 2. India Pesticide Ltd., Lucknow 3. FIL Industries Ltd. 4. Punjab Chemicals & Crop Protection Ltd,Chandigarh.90.0%Min.. 5. BonageriCropScienceLtd.Karnataka 90.0% Min.. 6. Best Crop Science Pvt. Ltd. 7. Heranba Industries Limited 8. Meenakshi Agro Chemicals

52.	Carbendazim Technical 98% min.	1. BASF, West Germany 2. Sinoway International (Jiangsu) Company Ltd., China 3. Jiangyin Rotam Chemical Co. Ltd., Jiangsu, China. 4. Ningxia Wynca Technology Co. Ltd., Taisha Chemical Industry Park, Pingluo, Ningxia, China through Supplier: Ningxia Wynca Technology Co. Ltd., Taisha industry Park, Pingluo, Ningxia, China (368th RC.) 5. Anhui Hauaxing Chemical Industry Co. Ltd., Wujing Town, Hexian County, Anhui, P R China formarly known as Kajo Agrochemical Co. Ltd., No.2, Qingtong Road Qingyang Town, JiangyinCity, JiangsuChina, (409th RC) 6. Jiangsu Lanfeng Biochemical Co. Ltd., Suhua Road, Xinyi Economic & Development Zone, Xinyi, Jiangsu, China (426th RC,98%) 7. Ningxia Ruitai Technology Co. Ltd., Fine Chemical Park Zhogweli Industry Complex,Ningxia, China. through supplier Shenzen Sushan Tech. Co. Ltd., Room No. 1209-1210, Exhibition Times Centre, Block C, Royal Plaza, Yitian South Road, Futian District, Shenzheno Guangdong, China. (411th RC,98% Min.)	1. BASF (I)Ltd.,Mumbai 2. Alchemic OrganicsLtd.,-Mumbai 3. Artee Graphite PLtd.,Delhi 4. AtulLtd.,Bulsar 5. Gujarat Insecticides Ltd., Ankleshwar 6. Hindustan Antibiotics Ltd.,Pune 7. Hyderabad Chemical Products Ltd., Hyderabad 8. New Chemie Industries Ltd., Mumbai 9. Paushak Ltd., Baroda. 10. Rotam India Ltd. 11. Megmani Industries Ltd. 12. Gharda Chemicals Ltd 13. Sudarshan Chemical Industries Ltd., Pune 14. Bayer Crop ScienceLtd., Mumbai 15. Crimsun Organics Private Limited 16. SPECIALITY ORGANICS PVT LTD.
53.	Carbofuran Technical 75% min & 90% min	1. FMCCorporation,USA 2. BraytonChemical,USA 3. AgrichemInc., USA 4. Mobay ChemicalCorporation, USA 5. Lobel ChemicalCorporation,USA 6. Mitsubishi Chemical Industry Co. Ltd., Japan 7. Medinpex,Hungary. 8. Jiangsu Lanfeng Biochemical Co.Ltd., Shaxitown,Taicangcity,JiangsuPro vince, China. 9. Hunan Haili Chemical Industry Co., Ltd., Address No. 251, 2nd Section, Furong Road (M), Changsa,Hunan,China formarly known as Human Research Institute of Chemical Industry, China.(439RC)	1. Atul Ltd. Valsad. 2. RallisIndia Ltd.
54.	Carbosulfan Technical 92% w/w min.	FMC Corporation, USA	

55.	Carboxin Technical 98% min.	Shaanxi Hengtian Chemical Co.,Ltd., No.- 48, Fengcheng 3 Road,XI'AN, China. Through Supplier: M/s ChongqingShining Fine Chemicals Co.Ltd.,28- 3Citie Commerce, No. 5 YangheSan Cun, Jiangbei District, ChongqingChina. (352ndRCmeeting.)	1. Bharat Rasayan Ltd., 97%, in 437thRC.
56.	Carboxin Technical 97% min.	1. CromptonCo./cieErbStreet, Elmira, Canada. To Chemturam CanadaCo./cie,Elm Street, Naugatuck, Ct 06770,Canada	2. GSP Crop Science Pvt. Ltd , Ahmedabad , 97.0 %min 9 (3) (TIM vs TI) in354thRC 3. Best Crop Science, 97% , in 386thRC 4. India Pesticides Ltd., 97% min. in393rdRC 5. UPL Ltd., Mumbai, 97%min. (4) in 395thRC 6. Bharat Rasayan Ltd 7. Meenakshi Agro Chemicals
57.	Carfentrazone ethyl Tech 90% min	FMC Corporation Agricultural Product Group, 1735 Market Street, Philadelphia, Pensylvenia PA 19103, USA(357th RC)	
58.	1.Carfentrazone ethyl 40%DF,(FI)	1. FMC Corporation Agricultural Product Group, Philadelphia, PA19103, USA (267thRC)	
59.	Carpropamid Technical 95% min.	Bayer Crop Science AG, Germany., (251st RC) Source change to Bayer AG, Germany, 392ndRC.)	
60.	Cartap Hydrochloride Technical 98% min.*	1. Sumitomo Chemical company, Shink awa2 – chome, Chuo-ku, Tokyo, Japan (through Arysta Life Science-Corpn, Japan) 2. SumitoChemicals. 3. Jiangsu Tianrong Group Co. Ltd., No.1, Shugang road, Xiangashui Eco-Chemical Industrial Park, Jiangsu, China Through supplier: Jiangsu Jiatai Chemical Co.Ltd.,17,Beijing Road (West), Nanjing,China, 4. Anhui Huaxing Chemical Industry C o.Ltd. Wujiang Town, Hexian Country, Anhui Province, China. (By M/s Sudarshan ChemicalIndustries Ltd , Pune in356thRC 5. (429th RC) 6. Hunan Haohua Chemical Company Ltd., No. 18, Dingshan Road, Shifeng District, Zhuzhou City, Hunan, China,	1. AtulIndiaLtd.,Valsadu/s9(3)i n 220thRC 2. UnitedPhosphorusLtd.,Mumbai.u/s9(3) in 220thRC 3. GSP Crop Science Pvt. Ltd.Ahmedabad 4. Bharat Rasayan Ltd.,NewDelhi 5. EID Parry (India)Limited, Chennai 6. Hyderabad Chemical Product-Limited,Hyderabad 7. HPM Chemicals &Fertilizers Ltd., 8. Punjabchemicals&Pharmaceuticals Limited,Chandigarh. 9. Gharda Chemicals Ltd, Mumbai 10. MeghmaniOrganicsLtd 11. Coromandel International Ltd.,Secundrabad 12. SudarshanChemicalIndustriesLtd., Pune 13. ExcelPhosphorusPvt.Ltd.,98 % min. 14. Best Crop Science Pvt. Ltd. 15. Crystal Crop Protection Ltd

61.	Clethodim 25% EC FI-WRT	Arysta Life Science , North America LLC, 15401 Weston Parkway suite 150, cary, NC, 27513, USA (416RC)	
62.	Clodinafop-propargyl Technical 93% min (Piroxofop - Propinyl)	1. Cheminova A/S, P. O. Box 9, DK- 7620, Lemvig, Denmark, (294th RC) 2. Syngenta Grimsby Pyewipe, GB, Grimsby South Humberside,UK	1. UnitedPhosphorusLimited,Gujarat 9 (3) in 252ndRC 2. Atul Limited, Gujarat 9 (3) in 256th RC 3. GhardaChemicalsLtd,Mumbai9(3) in 261stRC 4. Bhagiradha Chemicals &Industries Ltd.,Prakasham District(A.P.) 5. Excel Phosphate Pvt. Ltd.,Delhi.93.0 %Min, 6. Hyderabad Chemical ProductsLtd. 7. Crystal phosphate Limited,Delhi 8. Rotam India Ltd,Mumbai 9. Ravi OrganicsLtd 10. Bharat RasayanLtd 12. Punjab Chemicals & CropProtectionLtd 13. Sharda Worldwide Exports Pvt Limited 14. MeghmaniIndustriesLimited 15. Modern InsecticidesLtd.,Ludhiana 16. ChemturaChemicalIndiaPvt.Ltd, NDelhi 17. GSP Crop Science Pvt. Ltd.Ahmedabad 18. InsecticidesIndiaLtd 19. Sundew Life Science Pvt Ltd,Coimbatore. 20. SaberoOrganicsGujaratLtd. 21. Gharda Chemicals Ltd. 22. HPM Chemicals & Fertilizers Ltd. 23. M/s.Crystal Crop Protection Pvt.Ltd., N. Delhi 24. Best Crop Science LLP,Gajraula,UP 25. Shogun Organics Limited 26. Crimsun Organics Private Limited 27. Agro Life Science Corporation 28. India Pesticides Limited

63.	Clodinafop-propargyl Technical 95% min (Piroxofop-Propinyl)	1. Agan Chemical Manufacturers Ltd. P. O. B. 262, Ashdod, Israel (348thRC) 2. Hangzhou Udragoan Chemical Co. LtdTangxi Industries Area 311106 Yuhang, Hangzhou , China through supplier Chongquing Shining Fine Chemicals co., Ltd., 28-3, Citic Commerce No. 5, Yanghe San CunJiangbei, District Chonging,China (357thRC) 3. Yifan Biotechnology Group Co. Ltd., No. 555, Changan Road, YaoxiSubdistrict, Longwan District, Wenzhou City, Zhejiang Province, China through supplier Willowood(Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China. (approved by Willowood Chemicals Pvt. Ltd. in 428th RC)	
64.	Clomazone Technical . 90% Min., 93% Min.	FMC Corporation,Phildelphia,USA Jiangsu Lianhe Chemical Technology Co.Limited' Chenjiagang, Xiangshui, Jiangsu 224631, China through supplier FMC Agricultural Products InternationalAG,Suite 2401-2' Central Plarza,l8 Harbour Road, Wanchai, Hong Kong (430th RC,93% Min.)	UPL Ltd. approved in 425th RC SML Limited ALSC PRIVATE LIMITED HemaniIndustries Ltd. Best Crop Science Pvt. Ltd.
65.	Chlorpropham technical 98% w/w min	1. United Phosphorus Limited, Chadwick House, Birchwood Park, Warriton, WA 36AE, UK (By UPLLtd. Mumbai) 2. B.VIndustricen-Handel Sondernemning Simonis, Post Box No. 620-7000 AP, Doetinchem, Holland (370thRC)	UPL Ltd. Mumbai , 9(3) , 98.0% w/w Min. in 398thRC (TIM vsTI)

66.	Chlorantraniliprole tech 93.00% min *Chlorantraniliprole 35% WG	1. DuPont Asturias S.L. Valle de Tamon Nubledo 33469 Taman-Carreno Asturias, Spain through Supplier Dupont International Operations Sarl Chemin du Pavillion, Geneva, Switzerland. (292nd RC) 2. E.I. DuPont de Nemours & Co. DuPont Crop protection, Mobile Manufacturing Center, 12650 Highway 43, P O Box 565, Axis, Alabama, USA, Source name Change to FMC Corporation, Mobile ManufacturingCentre,12650,Highway43, P.O. Box 565, Axis Alabama 36505-0565, USA (404th RC) through supplier: DuPont International Operations Sarl, 2 Chemin du Pavillon, 1218 Le grand Saconnex, Geneva, Switzerland. 3. Dupont Agricultural Chemicals Through Supplier: Dupont Company (Singapore) Pte. Ltd., 1 Harbour Front Place# 11-01, Harbour Front Tower One, Singapore 098633 4. *Gowan Milling LLC, 12300 E. Country 8th Street, Yuma Arizona 85365, USA, a designated manufacturer of FMC corporation, Walnut Street, Philadelphia, Pennsylvania 19104, USA (426th RC meeting)	1. Natco Pharma Ltd. approved in 425th RC 2. Best Crop Science LLP approved in 425th RC 3. Insecticides India Ltd., 93.00% w/w min. 9(3) TIM vs TI.in 435 Rc 4. Indogulf Cropsciences Limited 5. Gharda Chemicals Limited 6. Agrow Allied Ventures Private Limited 7. Dharmaj Crop Guard Limited
67.	Chlorfenapyr SC (FI)	JiangsuRotamChemistryCo.Ltd.No.88, rotam Road, Ketd, Kunshan City, Jiangsu Province,China(250th RC)	
68.	Chlorfenapyr Technical 94%, 98% w/w min.	1. BASF Corporation, Hannibal Plant, 3150 Highway JJ Palmyra, Missouri America (423rd RC) 2. Parijat Industries India Pvt. Ltd. Source Hebei xingbai agricultural technology co. limited, nanbaishe bio industrial park zhao county, hebei province, china. (98%, 439 RC)	

69.	Chlorimuron ethyl Technical 95% min.	1. Du Pont Agricultural Caribe Industries ltd., Box 30,000, State Road, HWY, 686 Km.2.3 Manati Puerto Rico – 00701, USA to FMC Agricultural Caribe Industries Ltd, (Designated Manufacturer of E I Dupont de Numours& Company, USA), State Road, Highway 686 Km. 2.3, Manati, Puerto Rico 00701, USA (429th RC). 2. Dalian Raiser Pesticides Co. Ltd., No. 101, Xinanyao Jinzhou Dalian Liaoning, China (362nd RC TI vs TIM) 3. Jiangsu Changlong Agrochemical Co., Ltd.,No. 8, Tuanjiehe Road, Economic Development District of Taixing, Jiangsu, P.R. China. through supplier Willowood (Hangzhou) Co. Ltd., Room No.2003, Golden l'laza, No. 118, Qingchun Road, Xiacheng District, Han gzhou City, Zhejian g Province,China (437th RC)	1. AtulLimited,Valsad,Gujarat,u/s9(3) in263rdRC 2. JaiShreeRasayanUdyogLtd.,Delhi, 95% min., 3. AmbeyLabsPvt.Ltd.,NewDelhi95.0 % min, 9 (4) 4. UPL Ltd., 95.0 % min, , In 386th RC. 5. Best CropScience LLP, 95% min. , in 389th RC 6. Ichiban Crop Science Ltd., 95% in 431 RC 7. Ichiban Crop Science Limited 8. Insecticides India Limited
70.	Chlormequate Chloride Technical 97% min.,98.8% Min.	BASF, West Germany	1. Best Crop Science Pvt. Ltd. 2. Ichiban Crop Science Limited
71.	Chlorothalonil Technical 96% min. [Tetrachloroisophthalonitrite (Chemical name)]	1. SDS Biotech. KK, 2-12-7,Higashi Shinbashi Minato-ku, Tokyo 105,Japan. 2. Industrial Chemical Caffero SPA Milana, Italy. 3. Limin Chemical Co. Ltd., Jiangsu No. 31, Xintanroad, Xinyi, Jiangsu,China-221400 Supplier;- Jiangsu Jaitai Chemical Co.Ltd., Nanjiang,China 4. Jiangyin Suli Chemical Co., Ltd No.7 RunhuaRoad, Ligang-Town,Jiangyin City, Jiangsu Province, 214444, P.R. China , New Source (391/392nd RC) 5. Jiangsu Xinhe Agrochemical Co. Limited, No. 19, Xingang Road, Economic Development Zone, Xinyi City, Jiangsu Province, P. R. China through supplier Wilowood (Hangzhou) Co.Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (413 RC, 96% min.)	1. Bonagiri Life ScienceLtd 2. Ghardachemicals Ltd. 3. Meghmani Industries LtdAhmedabad. 4. HPM Chemicals & Fertilizers Ltd.,96% min, 5. Best Crop Science LLP, 96% min, 9 (4), in 386th RC. 6. Meghmani Industries Ltd.,96% min., 9(3), in392nd RC 7. Agrisol (india) Pvt. Ltd.
72.	Chlothianidin 50% WDG	Sumitomo Chemicals Takeda Agro Co.Ltd, Japan	

73.	Chlorpyriphos Technical 94% min., 97% w/w min.(436RC)	1. Dow Agro SciencesLLC,USA 2. DowAgroSciencesLLC,UK 3. ADAMA Mekhteshim Ltd. Israel. (formerly known as MekhteshimChemical Works, Beer Sheva, Israel, P.o. Box 60, Industrial Zone, Beer Sheva, 8410001, Israel. 4. FMC Corporation,USA Cheminova Denmark A/s, PO Box 9, DK- 7620,Lemvig,Denmark. 5. Manufacturer: Shandong Luba Chemical Co. Ltd., No. 17, Louji North Road, Tangwang Town, Licheng District, Jinan, China.Supplier: Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng, District, Hangzhou City, Zhejiang Province, China and the source of import (436 RC). 6. Shijiazhuang Richem co. Ltd., No.148, Yuhua Road, Chang An District, Shijiazhuang, China. (409th RC)	1. De-NOCIL Crop Protection Ltd., Mumbai 2. Excel Crop Care Ltd., Mumbai 3. Gharda Chemicals Ltd., Mumbai 4. Montari Industries Ltd.,Delhi 5. Siris IndiaLtd., Hyderabad. 6. Vantech Industries Ltd., Hyderabad. 7. GSP Crop Science Ltd., Ahmedabad(RC305) 8. Sabero Organics Gujrat Limited, 9. India PesticideLtd, Lucknow 10. Punjab Chemicals and Crop Protection Ltd, Chandigarh 11. Rotam India Limited, Mumbai 12. Heranba Industries Limited 13. Insecticides India Ltd., 14. Shivalik Rasayan Ltd., New Delhi 15. Bonagri Life Science Ltd, Hubli. 16. Coromandel International Ltd. 17. HyderabadChemical Products Pvt.Ltd. 18. Cheminova Inida Ltd.,Gujarat 19. Netmatrix Ltd. Hyderabad 20. Megmani Organics Ltd.,Ahmedabad 21. Bharat Rasayan Ltd., Delhi 22. Gujarat Insecticides Ltd. Ankleshwar 23. Sudarshan Chemical IndustriesLtd., Pune 24. Bhagiratha Chemicals &Industries Ltd. 25. HPMChemicals & Fertilizers Ltd., 26. Jubilent Life Sciences Ltd., Gajraula,Jyotiba PhuleNagar,UP 27. Best Crop Science LLP, Gajraula, UP 94.0%min. 28. Hemani Industries Ltd., 94.0%min. 29. IntegratedPesticides(P)Ltd., ., 94.0% min. 30.SujanilChemoIndustries,Pune., 94.0% min. 31. Coromandel Agrico Pvt. Ltd.,NewDelhi,94.0%min. 32. M/sOriyaOrganicsPvt.Ltd.,94% min., , In386thRC 33. M/sKrishiRasayanExportsPvt. 94% min., , In386thRC
74.	Chlorpyriphos Methyl Technical 96%min.	Dow Agro Science LLC, UK.by De-Nocil Crop Protection Ltd., Mumbai in 244th RC)	

75.	Chlorfluazuron 5% w/v (5.4% w/w) EC WRT	---	United Phosphorous Limited,Mumbai
76.	Chromafenozide tech 93% min.	1. Nippon Kayaku Co Ltd, Fujimi Bldg, 11-2 Fujimi 1-chome, Chiyoda-Ku, Tokya 102- 8172,Japan.Supplier:ArystaLifeSci ence, Tokyo,Japan. (ByP.I.IndustriesLtd., in 325th RC)	
77.	Cinmethylin Tech. 90% min.	Dimminico Ltd. Switzerland.	
78.	Clothianidin technical 50% WDG, Clothianidin technical 95%, 98% w/w min.	1. SumitomoChemicalTakedaAgroCo.Ltd., Tokyo, Japan through ArystaLifeSciences Corporation, Japan (266thRC) Manufacturer– SumitomoChemical Co. Ltd. 27- 1, Shinkawa 2-Chome, chuo-Ku, Tokyo, 104-8260, Japan. (425 RC 95%) 2. FMC India Ltd. Manufactured & supplied by Jiangsu flag chemical industry co. ltd. Changfenghe road, Nanjing chemical industry park, luhe, china. (437th RC)	Ichiban Crop Science Limited Best Crop Science Pvt. Ltd. Tagros Chemicals India Private Limited Heranba Industries Limited Sumitomo Chemical India Ltd
79.	1.Copper Hydroxide 77% WP, (Eq to50.0% metallic Copper) 2 Copper Hydroxide 53.8 % DF, (Eq to 35.0 % metallicCopper)* 3 Copper hydroxide technical 87.6% w/w min.	1. EI DuPont de Nemours & Co., Valdosta, GA31601,USA 2. * EI DuPont de Nemours & company, Houston Manufactuing 12701, Almedaroad, Houston, Texas USA Through Supplier DuPont International Operations Sarl Chemin da Pavilion, 1218, Le-Grand- Saconnex, Geneva, Switzerland (347th RC) Source Change to Kocide LLC Address 9145, Guilford road, Suite 175, Columbia, Maryland 21046, USA. (388th RC.) (422th RC)	
80.	Copper Oxychloride Technical 57% min. (Copper Content)		1. Artee Graphite P Ltd., Delhi. 2. Mehul Organics Pvt. Ltd. 3. Vimal CropCareLtd. 4. JoyAgroChemIndustries d 5. CrystalPhosphateLtd 6. Shyam Chemicals Pvt Ltd, Mumbai. 7. Hindustan Insecticide Ltd. 8. India Pesticides Ltd. 9. Punjab Chemicals & Crop Protection Ltd. 10. Sulphur Mills Limited 11. Agro Life Science Corporation,57.00%,9(40, in 434 RC

81.	Copper Sulphate Technical 98% min. equivalent to 25% copper content		1. Blue Crystral Agrochemicals Ltd.,Bangalore. 2. Parikh Enterprises Ltd., Ahmedabad. 3. Travencore Copper Fungicide (P) Limited, Ernakulam 4. Bluesea Chemicals (I) Pvt Ltd, Thirumalabhagom,Kerala. 5. CaressIndustriesKavindapadi 6. Divya Chemical Manufacturer, Kinnigoli,MangloreKarnataka 7. KrishiRasayan,Kolkotta 8. Copper Chemical Manufacturers,Puthuppady(Kerala) 9. SudarshanChemicalIndustriesLt d.,Pune 10. Chirag Industries,Karnataka,98.0% min (eq 25 % copper Contents), 11. Bharath Chemicals Industries, Karnataka 98.0% min (eq 25%copperContents), 12. Shree Ganesh Industries, 98% w/w min. in 439RC 13. Shree Ganesh Industries 14. Shyam Chemicals Pvt Ltd 15. Vimal Crop Care Pvt. Ltd.
82.	Coumatetralyl Technical 95% w/w min.	Bayer CropScience AG,Germany.,(392nd RC)	
83.	Cuprous Oxide		
84.	Cyantraniliprole Technical 93 % Min, 95% min. (436RC) Cyantraniliprole 7.3% + Diafenthiuron 36.4% SC	1. E.I.DupontdeNemoursandCompany, Dupont CropProtection, Mobile Manufacturing Center Highway 43, Axis, Alabama 36505, USA Through Supplier- Dupont International Operations Sarl Chemin du Pavillon 2 Ch-1218 Le Grand- Saconnex Geneva, Switzerland. (343rd RC), (439th RC)	1. ISK Biosciences India, 95% min. 9(3). (TIM).in 436RC.
85.	Cyclanilide technical 97% w/wmin.	1. Bayer CropScience, 8400 Hawthorn, Road Kansas City, MO 64120, USA (427th RC)	
86.	Cyclaniliprole technical 95% min (436RC).		1. ISK Biosciences India, 95% min. 9(3). (TIM) in 436 RC
87.	Cyflumetofen Technical 96.0 % min.	1. OAT Agrico Co. Ltd., 1-3-1 KandaQgawamachi, Chiyoda-ku, Tokoyo, Japan (360th RC)	

88.	Cyenopyrafen 30% w/w SC (FI-WRT)	1. Nissan chemical industries Ltd. Kowa- Hitotsubashi, Building 7-1, 3-Chome, Kanda- NishikCho,Chi-yoda-Ku,Tokyo101- 0054, Japan. Through Supplier: Nissei Corporation, Japan Add 10- 5, Nihonbashi- Hon-cho, 1-Chome, Chou-ku, Tokyo 103-0023 Japan. 393rd RC,(FI-WRT)}	
89.	Cyflufenamid 5%EW (FI-WRT)	1. Nisso Chemical Europe GmbH, berline Allee 42, 40212, Dusseldorf, Germany throughsupplier Summit Agro International Ltd, Harumi Island, TritonsquareOffice,TowerZ,1-8- 12,Ha-rumi,Chou- Ku , Tokyo , 104-6223 (413RC)	-
90.	Cyfluthrin Tech-nical 90% min,	1. Bayer Crop Science AG, Germany., changeto (Bayer AG, Germany), (392nd RC 2. Mitchell CottsChemicals,UK	Bilag Industries Pvt. Ltd. , Vapi 9 (3) in 357th RC(TIM-TI)
91.	1.Cyphenothrin Technical 92%min. 1. Cyphenothrin 7.2%VP*	1. Sumitomo Chemicals, Osaka, Japan *Earth Chemicals Co. Ltd., New Awajmachi Bldg., 3- 14, 1-chome, Chuo- Ku, Osaka, Japan7.2%VP (325thRC)	---
92.	Cyhalofop-butyl Technical 96% min, 97.4% min, 97.5% min.	1. Dow Chemical Ltd., Japan Dow Agro Sciences Division,Tokyo,Ja-pan (439 RC) 2. Dow Chemical Company, Michigan Operation, 1790 Building, Midland, MI, USA 48667(AdditionalSite). 3. Shanghai Shengnong Pesticide Co. Ltd., Ass: No. 51, Dongzhou Road, Dongjing Town, Songjiang, District, 201619 through supplier Shanghai Forever Chemical Co. Ltd., Add: RM. 302, No. 188, Zhangyang Rd. Shanghai (426th RC meeting for 97.4% min.) 4. manufactured and supplied by Jinagsu Lianhe Chemical Tech-nology Co. Ltd., Weisan Road, Chenjiagang, Xiangshui, Jiangsu, P. R. China 22431 439RC)	Crysal Crop Protection Pvt. Ltd. 9(3) in 426th RC
93.	Cyhalothrin Tech-nical	1. Sumitomo Chemical Shijiazhuang Richem Co. Ltd., No.148 East Yahua Road, Shijiazhuang, 050031, Hebei, China	1. SumitomoChemical 2. Crystal Crop protectionPvt. Ltd.
94.	Cymoxanil Tech-nical 96% min.	DuPont de Nemours (France) SA, DuPont AgricultureProd-ucts,82,WittelShei m,BP 9,Cerney,-France.(205th RC)	1. IndofilIndutriesLtd.,And-heri(E), 9 (3) in291stRC 2. Best Crop Science LLP, Gajraula, UPu/s 3. HPM CHEMICALS & FER-TILIZERS LIMITED 4. Crystal Crop Protection Ltd 5. Godrej Agrovet Limited 6. Agro Life Science Corpo-ration

95.	Cypermethrin Technical 92% min, 70% min. & 50%min,	1. Dow Agro Co., UK(92%min.) 2. Mitchel Cotts Chemicals, UK(92%min.) 3. Zeneca Ltd., UK(70%min.) 4. ShellInternationalChemicalCo.Ltd.,UK (50%)	1. BASF IndiaLtd.,Mumbai. 2. De-Nocil Crop Protection-Ltd., Mumbai 3. Coromondel International Ltd. Secundrabad 4. Gharda CehmicalsLtd.,-Mumbai. 5. Gujarat Insecticides Ltd., Ankleshwar(92%) 6. RPG Life SciencesLtd.,Mumbai. 7. Rallis IndiaLtd.,Mumbai 8. SyngentaCropProtectionPvt. Ltd., AmarParadigm,Pune 9. Gujarat Agro-ChemLtd,-Mumbai 10. Rotam India Limited,Mumbai 11. Insecticide India Ltd 12. Punjab Chemicals & Crop Protection Ltd 14. Crystal Phosphates Ltd., Delhi Hemani International Pvt. Ankleshwar 15. United Phosphorus Ltd. Mumbai 16. HyderabadChemicalProducts Pvt. Ltd 17. Heramba Industries Ltd. 18. Megmani Organics Ltd., Ahmedabad 19. Tagros Chemicals India Ltd.,Chennai(92%) 20. SudarshanChemicalIndustriesLtd., Pune(92%) 21. Bharat Rasayan Ltd., Delhi(92%)., 9(4 22. Bayer Crop Science Ltd.,-Mumbai 23. Crop Life ScienceLtd., Ankleshwar, 24. Dharmaj Crop Guard Ltd., 92.00% w/w min., in 434 RC 25. Best Crop Science Pvt. Ltd. 26. Dharmaj Crop Guard Limited 27. Ichiban Crop Science Limited
96.	Cyphenothrin Technical92% min.	Sumitomo Chemical Co. Ltd, Japan	Sumitomo Chemical
97.	Cyproconazole Technical 94.00% w/w min	Saltigo GmbH, Industrial Park,Leverkusan,Germany Supplier NA(393rdRC)	
98.	Cyazofamid 34.5% SC Cyazofamid Tech. 95% w/w min.	Ishihara Sangyo Kaisha Ltd., 1 United Phosphorus Ltd. , Mumbaiin 339th RC	Best Crop Science Pvt. Ltd. Insecticides India Ltd.(429th RC)
99.	Dazomet tech 94% min	BASF Atkiengesll Shaft ,D-67056 Ludwigshafen, Germany	Margo Bio Controls Pvt.td. Bangalore

100.	Deltamethrin Technical 98% min. Delatamethrin 25% WG	1. Bayer CropScience S.A. Lyon, France (Name of previous source is Aventis CropScience S.A. Lyon, France this was changed in 230thRCby) 2. Bayer S.A.S., 16 rue Jean-Marie Leclair 69009,Lyon,-France 3. Roussel Uclof,Paris,France 4. Suppliers: Bayer S.A.S Division crop science, environmental science lyon, France.(436th RC)	1. Agrevo IndiaLtd.,Mumbai 2. GhardaChemicalLtd.,Mumbai9 (3) in207thRC 4. Tagros Chemicals Ltd.,9 (3) in 240thRC 5. Isagro (Asia) Agrosschemicals Pvt. Ltd.,9 (3) in258thRC 6. Heranba IndustriesLtd,Gujarat 7. MeghmaniorganicsLtd 8. InsecticideIndiaLimited 9. HindustanInsecticideltd. 10. BayerCropScienceLtd.,Mumbai. 11. Bayer Vapi Pvt. Ltd.,Vapi, Gujarat 12. Shogun Organics Ltd., Mumba i, 95%min., 13. M/s Himani Industries Ltd.,-Mumbai, 98%min., 14. Best Crop Science Pvt. Ltd. 15. Agro Life Science Corporation 16. Bharat Rasayan Ltd 17. Dharmaj Crop Guard Limited 18. Indogulf Cropsciences Limited 19. Ichiban Crop Science Limited
101.	Dichlorophenoxy AceticAcid Sodium salt (2,4-D) 80.3% acid		1. Atul India Limited,Valsad 2. ArteeMinerals,Faridabad 3. DhanukaPesticides 4. MeghmaniOrganicsLtd. 5. HeranbaIndustriesLtd.
102.	Dichloro Diphenyl Trichloroethane (DDT)	SojuzchimEexport,32/34,Smolenckekaja, Sennaza (Moscow)	Hindustan Insecticides Ltd., Delhi.
103.	Diclosulam 84% WDG, Diclosulam Technical 94% Min., 94.1% Min.	1.Herbicide Formulation Plant, Building 1000 Midland, Michigan USA 48667. (350th RC) 2.Dow Agro Sciencc herbicidc Plant,Buitding 680, M idland, Michigan USA-48667 Supplier 3.Dow AgrocienceLLC, 9330 Zionsville Road, Indianapolis, IN- 46268 USA. (430th RC, 94.1%)	
104.	Diclofop-methyl Technical 93% min	BayerCropScienceAG,Germany.,change to (392nd RC.	
105.	Dicofol Technical 82% min & 85% min	1. Agan Chemical Manufacturers Ltd., Israel. 2. Makhteshim Agan, Israel. 3. DowAgroScience,Italy. 4. I.P.I.CI.SPA,Italy. 5. Dow AgroScience, USA 6. Makhteshim Chemical Works, Israel. 7. Montecinca, S.A.,Barcelona,Spain	1. Indofil IndutriesLtd.,Andheri(E) 2. HindustanInsecticideLtd.(82%)

106.	Difenoconazole Technical 92% min., 95% min.	1.Syngenta Crop Protection AGMonthey, Switzerland . (By Syngenta (India) Ltd., Mumbaiin 219thRC) 2.Lier Chemical Co. Ltd.,Economic & TechnicalDevelopment Zone, Mianyang, Sichuan, P.R. China (354th RC) 3.Qingdao KYX Chernical Co.Ltd., Guhe Industrl' Zone, Shui Laixi City,Qingdao,China 429th RC, 95% min by Indogulf Crop Sciences Ltd. (431th RC)	1. AstecLifeScienceLtd95.0%min9 (3) in341stRC 2. IndofilIndustriesLtd.,Mumbai95 % min 9 (3) in 353rdRC 3. CheminovaIndiaLtd,Mumbai92. 0%min in 362nd RC TIMvs.TI 4. ExcelCropCarePvt.Ltd,Mumbai95.0% minin 362nd RC TIM vs.TI 5. OriyoOrganicsPvt.Ltd.,95% w/w min.,, in387thRC 6. NACL Industries Ltd., 95% w/w min in 432 RC 7. Crop Life Scieince Ltd., 95% w/w min in 434 RC 8. R3 Crop Care Pvt. Ltd., 95.00% w/w min. ,435 RC 9. Gujarat Insecticides Ltd. 10. Gujarat Insecticides Ltd. 11. CROP LIFE SCIENCE LTD. 12. Anu Products Limited 13. Bhagiradha Chemicals & Industries Ltd., 14. Agrisol (india) Pvt. Ltd 15. Rallis India Limited 16. Ichiban Crop Science Limited
107.	Diafenthiuron tech 96% min., 97% Tech Min	1. Syngenta Crop Protection, AG, Monthey, Switzerland. (230th RC) 2. Jiangsu Changlong Agrochemical Co. Ltd.,No.8 Tuanjiehe Road, Economic Development District of Taixing, Jiangsu, China through supplier WillowoodLtd. 17thFloorSeaviewPlaza283,ShauKei Wan Road, Shau Kei Wan, Hong Kong. (367thRC). 3. Jiangsu wood Harvest-Weien Agrochemical Company Ltd. China which is registered for manufacture of Diafenthiuron 96%. 404thRC)	1. GSPCropSciencePvt.Ltd. Ahmadabad 9 (3) in 323rdRC 2. InsecticidesIndiaLtd. 3. IndofilIndiaLtd.96.0%min, 4. AgricoOrganicsLtd.,96.0%min,9 (4) 5. KrishiRasayanExportPvt.Ltd,96.0 % min, 9 (4) 6. BonageriLifeScience,96.0%min,9 (4) 7. AmbeyLabsPvt.Ltd.,NewDelhi, 96.0 % min, 8. CropLifeSceinceLtd.,Anklesh-war, 96.0% min, 9 (4). 9. BestCropSciencePvt.Ltd.,New Delhi, 96.0 % min, 10. M/sNagarjunaAgritechLtd.96% min, in386thRC. 11. M/sIndiaPesticidesLtd.,96%min, in390thRC. 12. Punjab Chemical & Crop Protection Ltd. in 421st RC 13. Hernaba Industries Ltd.,96.00% min., , in 434 Rc 14. Spectrum Ethers Private Limited 15. R3 Crop Care Pvt. Ltd. 16. Ichiban Crop Science Limited 17. Crystal Crop Protection Ltd 18. Canary Agro Chemicals Pvt. Ltd. 19. Meenakshi Agro Chemicals 20. Agro Life Science Corporation

108.	Diflubenzuron 90% min., 95%	1. Chemtura, Netherlands, B. V, Netherlands (earlier known as Uniroyal Chemicals B.V., Netherlands 90.0%min) 2. Dow AgroScience,US 3. Uniroyal Chemical Co., USA and M/sDuphar Br.Hollandthrough-supplier Arysta Life scienceNetherlands B.V, Ankerweg 18,1041 Amsterdam, Netherlands (386th RC)	1. GhardaChemicalsLtd.,Mumbai,u/s9 (3) in220th RC 2. Hindustan InsecticideLtd.90%) 3. Excel Phosphates Pvt. Ltd., 95.00% w/w min,, in 434 RC 4. Bharat Rasayan Ltd., 95% w/w min. in 439RC 5. HemaniIndustries Ltd., 6. Ichiban Crop Science Limited 7. Agrisol (india) Pvt. Ltd
109.	Diflubenzuron 2% Gr.	ChemturaItalyS.r.l,ReaIndustriaCh emica S.P.a.s.s87km,20.700,81025,Maar cianise (CE), Italy, Europe (By M/ sChemtura Chemicals India Pvt. Ltd in 289th RC)	
110.	Diflubenzuron 2% Tablet	ChemturaItalyS.r.l,ReaIndustriaCh emica S.P.a.s.s87km,20.700,81025,Maar cianise (CE), Italy,Europe Europe (ByChemtura Chemicals India Pvt. Ltd in 284thRC)	
111.	Dimethomorph Pyraclostrobin import	M/s. IPT Pergande GmbH, Wilfried Pergande Platzl, 06369 WeiBandt–Golzau, Germany (366th RC)	
112.	Dimethoate Technical 85% min.	1. AgrimotSPA,Italy. 2. I.P.I.C.I.SPA,Italy 3. Cheminova A/S, P.O. Box 9, DK 7620, Lemvig,Denmark 4. Chongquing Pesticides & Chemical Industry Group Company Ltd., Hunan Fourth Road, Chongquing Chemical Industrial Park, Chongquing, China (95% Min)	1. Rallis India Ltd. 2. Shaw Wallace & Co. Ltd., Chennai 3. Cheminova India Ltd., Bangalore 4. Hyderabad Chemical Products Pvt. Ltd. 5. Shivalik Rasayan Ltd. 6. Sudarshan Chemical Industries Ltd., Pune 7. Coromandel International Ltd. 8. Best Crop Science Pvt. Ltd.
113.	Dimethomorph Technical 96.5% min.	Crystal Crop Protection Ltd.(439th RC) Coromandel International Limited	
114.	Dinocap Technical 90% min.	1. DowAgroScience,Italy. 2. DowAgroScience,USA	
115.	Dinotefuran 20% SG (FI-WRT) Dinotefuran 0.5% RB	1. GAP Industries Co Ltd, Thailand through supplier Summit AgroInternational Ltd.,Summitomo CorporationTakebashi Building, 9F, 1-2-2, Hitobashi,Chiyoda-Ku,Tokyo 100-0003,(326th RC.) 2.BASF India Ltd. (430th RC)	--------

116.	Dinotefuran Technical 99.1% w/w min. Dinotefuran 97% w/w min.	1. Mitsui Chemicals Agro Inc. (MCAG), Japan (414thRC) 2. Jiangsu Lanfeng Biochemical Co. Ltd., China,	3. M/sInsecticidesIndiaLtd,New Delhi (97% min 416RC) 4. M/sBestCropScienceLLP,New Delhi (97% min416RC) 5. Indofil Industries Ltd., 99.1% min. , 434 RC. 6. Bhagiradha Chemicals & Industries Ltd.,,97.00%,(TIM vs FIWRT) 9(3).in 435RC 7. Meghmani Organics Limited, Ahmedabad 8. MG ORGANICS PRIVATE LIMITED 9. Heranba Industries Limited
117.	Dithianon Technical 93% min.	1. Celamerck Gmbh & Co., Ingelhum, West Germany.	Rallis India Ltd.
118.	Diuron Technical 95% min. and 98% min.	1. E.I.Dupont de Nemours & Co.,Inc. USA 2. ADAMA Agan Ltd. P.O.B. 262, Ashdod, Israel. (Formerly known as Mekhteshim ChemicalManufacturer Ltd., Israel).	1. Bayer Crop ScienceLtd.,-Mumbai 2. Atul Ltd,Valsad 3. Hikal Limited,Mumbai 4. Crew Chemicals 9(3)-98%min. 5. Siris Crop Science,NewDelhi 6. Bharat Rasayan Ltd., Delhi(98%) 7. Meghmani Indsustries Ltd,Ahmedabad 8. Insecticides India Ltd., 98% min., in386thRC 9. SPECIALITY ORGANICS PVT LTD 10. Ichiban Crop Science Limited 11. Agrisol (india) Pvt. Ltd 12. Best Crop Science Pvt. Ltd.
119.	Dodine Technical98% min.	1. Kenogarh AB, Stockholm, Swedonand Agro Kemia Industrial Co- op, Hungary. 2. CHIMAC S.A. Rue de Renory, 26/2, B- 4102, Belgium. Supplier: AGRIPHARS.A. Ruede Renory, 26/1,B-4102,Belgium 3. from CHIMAC S. A., Rue de Renory, 26/2, Ougree, Belgium to Arysta Life science Ougree Production SPRL, Rue de Renory, 26/2, Ougree, Belgium, (429th RC)	1. Indofil Indutries Ltd., Andheri (E),9 (3) in243rdRC 2. Heranba Industries Limited 3. Indo Amines Ltd. 4. Best Crop Science Pvt. Ltd.

120.	d-trans- allethrin Technical 93% min.		1. Shogun Organics Limited. 206A, Kotia Nirman, Andheri(W) 2. BayerVapiPvt.Ltd.,Vapi, Gujarat 3. Insecticide IndiaLimited,Delhi 4. Reckitt Benckiser IndiaLimited 5. SumitomoChemicalsIndiaPvt.L td,220, NarimanPoint,-Mumbai 6. Tagros Chemicals India Ltd.,93 % min., 7. M/sSynergiaScience Pvt. 93% in345thRC
121.	Ediphenophos Technical 85% min.	1. Nihon Tokusu Noyakh, Japan. 2. Chemagro Agril.Divn.,USA 3. Mcbay ChemicalCorpn.,USA 4. Bayer Crop Science K.K.Japan	
122.	Emamectin Benzoate Technical 95%min.	1. M/s Hebei Vain Biochemical Co. Ltd 393 Heping East Road, Shijiazhuang City, Hebei Province, P.R. China. 95.0% Min (293rd RC) Source name Change to Hebei Veyoug Bio-Chemical Co. Ltd, China 2. Hunan Gofar Fine Chemical IndustryTechnical Co.Ltd.Yuxi Linxiang City, Hunan, China. through Supplier: Shenzhon Sushan Technology Co. Ltd. Room No. 2410, Bloc, Huangdu Plaza, Yitian Road, Futian District, Shenzhen Guangdong Province, China.95.0% Min (341th RC) 3. Zhejiang Shenghua BiokBiology Co. Ltd. China. Plant Address: Zhongguan Industrial Park Deqing Zhejiang China, Zip Code-313220. Office Address: Room 1003, Part-D Phase, Two World Trade Centre, No. 122, Shuguang Road, Hangzhou 310007, China. (329th/346thRC) M/s.Syngenta Nantong Crop Protection Co. Ltd., No.1, Zhong Yang Road, Nantong, Jiangsu, PRChina,(95.0% min (356thRC) 5. Qingdao KYX Chemical Co. Ltd., Shuji Industries Zone, Laixi District, Qingdao, China Zip-266071 95.0%min (363rdRC) 6. Jingbo Agro chemicals Technology Co., Ltd., Economic Development Zone, Boxing County, Shandong Province–256500,P.R. China through Supplier Willowood (Hangzhou) Co. Ltd., Room 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang (367thRC)	

123.	Emamectin Benzoate 5 % SG, 95% w/w min. (420th RC)	1. Syngenta Crop protection AG, Switzerland (277th RC)(341th RC)	Krishi Rasayan, Kolkata, India(95% w/w min. (420th RC)
124.	Emamectin Benzoate 0.1% w/wGelBait	Fumakilla Malaysia Berhad, Plot No. 256, Tingkat Perusahaan 5 Kawasan Perindustrain Perai 2,13600 Perai, Penang, Malaysia (367thRC)	
125.	Epoxiconazole Tech 92% min	1. BASF Schwarzheide Gmbh, Schipkauer Strasse1,01987 Scwarzheide, Germany (360th RC)	
126.	Ethephon Technical 75% min.	1. Bayer Crop Science LP, North	1. Krishi Rasayan Pvt. Ltd., Calcutta 9
127.	90% min & 87% w/w min, 89% w/w min.*	Carolina, USA. Hebei Bestar Commerce and Trade Co. Ltd., 6- 3-203 No.66 Dianda Street Xinhua District Shijiazhuang, China. 90% min 2. * Shijiazhuang Richem Co., Ltd.,No.148 East Yuhua Road,Shijiazhuang, 050031, Hebei, China through supplier Shijiazhuang Richem Co., Ltd.,No.148 East Yuhua Road,Shijiazhuang, 050031, Hebei, China.90.0% min (365thRC) 3. Jiangsu Anpon Ltd. Electrochemical Co. Ltd No. 30,Huangong Road, Huaian, Jiangsu, China (417th RC)	(4) , 75.0% min in 256thRC 2. Bharat Rasayan Ltd Delhi,Calcutta 9 (4) , 75.0%min in 352 thRC 3. Sunshine Fine Chemsol India Pvt. Ltd., 75% w/w min. , in 436 RC 4. SUNSHINE FINE CHEMSOL INDIA PVT. LTD 5. Ichiban Crop Science Limited
128.	Ethion Technical 92% min. & 95%* min. 98 % min**	1. Rhone Poulenc Agrochemie, Francek Supplied by: Volkart Brothers Ltd., Switzerland. Suppliedby– VolkartBrothers Ltd.,Switzerland 2. *Cheminova A/S, P. O. Box 9, DK 7620, Lemvig,Denmark 3. **M/sShijiazhuangRichemCo.,Ltd. ,No. 148 East Yuhua Road, Shijiazhuang, 050031, Hebei, China through Supplier M/s Shijiazhuang Richem Co.,Ltd., No.148 East Yuhua Road, Shijiazhuang, 050031, Hebei,China	1. RallisIndiaLtd. 2. PI IndustriesLtd.,Udaipur 3. Shaw Wallace &Co.,Chennai. 4. Shivalik Rasayan Ltd,NewDelhi 5. HikalLimited,Mumbai 6. Enzyme Pharmaceuticals and Industrial ChemicalsLtd,Mumbai 7. Bhaskar Agro Chemicals Ltd,Hyderabad 8. UnitedChemicals,Hyderabad 9. Krishi Rasayan (P)Ltd 10. CoromandelInternationalLtd. 11. HyderabadChemicalProducts Pvt. Ltd. 12. Punjab Chemicals and crop protectionLtd.,Mumbai 13. BharatRasayanLtd.,Delhi(95%,) 14. BharatRasayanLtd.,Delhi(95%,) 15. Best Crop Science Pvt. Ltd.
129.	Ethiprole Tech 92% min, *94.5% min.	Bayer Crop Science,Hangzhou, Co. Ltd., China.(306th RC)	1. Bayer Vapi Pvt. Ltd. 9(3) in 426th RC meeting for 94.5% min.* 2. ALSC PRIVATE LIMITED 3. Best Crop Science Pvt. Ltd.

130.	Ethofenprox Technical 96.3% min. (Etofenprox)	Mitsui Chemical Inc., Kasumigasakri, B-Cheme- Chiyao-da, Tokyo- 100, Japan. New Source - Mitsui Chemicals, Shidome City Centre, 1-5-2, Higashi- shimbashi, Minato-ku, Tokyo, Japan (Authorized Agent/throughsupplier -Summit Agro International Co. Ltd., Tokyo, Japan	1. Isagro Asia IndiaPvt.Ltd. 2. RPG Life ScienceLtd.,Mumbai
131.	Ethoxysulfuron 15% WDG	1. Manufactured by Bayer Crop Science AG, Germany and formulation supplied by- Bayer Viertnam Ltd., Lot 118/14, Amata, IP Bien Hoa City, Dong Nai Province, Vietnam(392nd RC)	
132.	Ethoxysulfuron Technical 95%w/wmin.	1. Bayer Crop Science AG, Germany., change to Bayer AG, Germany), (392nd)	
133.	Ethylene Dibromide and Carbon Tetrachloride mixture (EDCT Mixture 3:1) { Ethylene Dibromide is bannedvideS.O682(E)17th July, 2001}	To be informed.	
134.	Etoxazole 10%SC (FI- WRT)	1. Sumitomo Chemicals Company Ltd., 27-1, Shinkawa,2-Chrome, Chuo-ku, Tokyo-104-8260, Japan (347thRC)	
135.	Flucetosulfuran(WG) 10% Min.(FI-WRT)	1.LG Life Science Ltd., Mfg. Site:- 19,Ijin- ro, Onsan-eup, Ulju-gun, Ulsan, Korea, Corporate Office: LG Gwanghwamun Building, 58, Saemunan-ro, Jongnogu, Seoul, Korea (365thRC) Change to LG Chem. Ltd., 128Yeoui- daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea. (386thRC.)	
136.	Flumioxazin Technical 98 % w/w Min	1. Sumitomo Chemical Co., Ltd. 27-1, Shinkawa 2- chome, Chuo-ku, Tokyo 104- 8260. Through Supplier- same as manufacturer (387th RC)	-
137.	Famoxadone Technical 96%min	1. DuPont Iberica, SA-33469, Tamon- Aviles, Asturiaz, Spain (293rd RC) Change to DuPont Austurias S.L., Valle de Temon Nubledo, 33469 Tamon- Carreno, Aviles, Ausurias, Spain through supplier DuPont International operations Sarl, Chemindu Pavil lon2,CH- 1218Le grand Saconnex, Geneva ,Switzerland.	

138.	Famoxadone Technical 96%min	2. E.I. DuPont de Nemours & Co. DuPont Crop protection, Mobile Manufacturing Center, 12650 Highway 43, P O Box 565, Axis, Alabama, USA through supplier DuPont International Operations Sarl, 2 Chemin du Pavillon, 1218 Legrand Saconnex, Geneva, Switzerland.	
139.	Fenamidone 10% + Mancozeb 50% WDG,FI	Bayer S.A.S., 16 rue Jean-Marie Leclair 69009,Lyon,France(286th RC)	
140.	Fenamidone 4.44% + Fosetyl AI 66.66% WDG,FI	1. Bayer S.A.S., 16 rue Jean-Marie Leclair 69009, Lyon, France,(293rd RC)	
141.	Fenitrothion Technical 95% min.	1. NovartisCropProtection,AG,Switzerland. 2. Bayer Crop ScienceAG,Germany. 3. Sumitomo Chemical Co.Ltd.,-Japan.	1. RallisIndia,Bangalore 2. Bayer Crop ScienceLtd.,-Mumbai.
142.	Fenobucarb(BPMC) Technical 95%min.	1. Bayer CropScience LP, 2TW, Alexander Drive, Research Triangle Park, North Carolina 27709, USA (Name of previous source is Aventis CropScience LP, 2TW, Alexander Drive, Research Triangle Park, North Carolina 230thRC) 2. Rhone Poulene Ltd., Seoul,SouthKorea. 3. Hunan Haili Chemical Industry Co. Ltd. 251, 2nd Section Furong Road (M), ChangshaHunan,China 4. Bayer Crop Science LP,USA	
143.	Fenoxaprop-p-Ethyl Technical 88%min.	1. BayerCropScienceAG,Germany.,(By Aventis CropScience) Change to M/s Bayer AG, Germany,(392ndRC.). 2. HangzhouUdragoan Chemical Co. Ltd. 172, Zhangjiadun Road, Tangxi, Yuhang, Hangzhou, Zhejiang, P.R. China.Through Supplier: Willwodd (Hangzhou) Co.Limited, Room No. 2003, Golden Pla za, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China. (348thRC)	1. Cheminova India Ltd., Mumbai for 88.0% Min (w/w (TIM Vs TIT) under section 9(3) of the Insecticides Act, 1968. in 354thRC. 2. Atul Ltd., 88% min.,, in 386thRC. 3. Bharat Rasayan Ltd., 88.00% w/w min. in 434. 4. Anu Products Limited 5. Indogulf Cropsciences Limited 6. Agro Life Science Corporation 7. Ichiban Crop Science Limited
144.	Fenpropathrin Technical 90% min. Fenpropathrin 10% EW	Sumitomo Chemical Co. Ltd.,Japan Sumitomo Chemical India Ltd.(437th RC)	1. SumitomoChemicalsIndia Pvt. Ltd,Mumbai 2. S.C.EnviroAgroIndia(P)Ltd. Mumbai 9 (3) in218thRC 3. BharatRasayanLtd.,NewDelhi 90.0% min.

145.	Fenpyroximate Tech (95.9%min) (98% min.), 98.5% min.	Nihan Nohyaku Co. Ltd., Tokyo 2-5, Nihonbashi 1-Chome, Chouku, Tokyo, Japan (By Rallis India ltd , in 277th RC) Shijiazhuang Richem Co., Ltd., No.148 Yuhua Road, Chang An District, Shijiazhuang' China Through Supplier: Hebei Bestar Commercc and Trade Co. Ltd.,6-3-203 No. 66, Diarrda Street, distt, shiiiazhuang China ((417th RC)	1. Isagro (Asia) Agrochemicals Pvt. Ltd., Mumbai, 9 (3) in269thRC 2. GSPCropSciencePvt.Ltd., Ahmedabad 3.Excel Crop Care Ltd., Mumbai, 9 (3) in304thRC 4. Jai Shree Rasayan Udyog Ltd., NewDelhi, (98% min.), 5. M/sBestCropScienceLLP,98.5% min.,, in386thRC 6. Ichiban Crop Science Limited
146.	Fenvalerate Technical 90% min.	Sumitomo chemical Co. Ltd.,Japan.	1. RallisIndia, Mumbai. 1. RPG Life Sciences Ltd., Mumbai. 2. Megmani Organics Ltd., Ahmedabad 3. CoromandelInternationalLtd. 4. HyderabadChemicalProducts Pvt. Ltd. 5. United PhosphorusLtd.,-Mumbai 6. Tagros Chemicals India Ltd.,Chennai 7. Sudarshan Chemical IndustriesLtd.,Pune 8. Gujarat Insecticide Ltd.,Ankleshwar 9. Bharat RasayanLtd.,Delhi
147.	Fenazaquin Technical 97.5% min.	Verttellus specialities UK Supplier: Gowan Crop Protection Ltd. (412th RC)	Saraswati Agro Chemical (India) Pvt. Ltd., 97.5%, TI
148.	Fenoxanil technical 95% w/w min(437RC)	Manufactured & Supplied by Nihon Nohyaku Co. Ltd., 19-8, Kyobashi, 1- chome, Chuo-ku, Tokyo 104-8386, Japan. (437th RC, 95% Min.)	

149.	1. Fipronil Technical 90%, 92% min, 95% min., 96% min 97% min 2. Fipronil 80%WG* 3. Fipronil 0.03%gel** 4. 0.05%GEL*** Fipronil 15% + Flonicamid 15% WDG	1. BASF Agri. Production SAS, Elbeuf, France (90%). {Previous Source name was Bayer CropScience S.A. Lyon, France which was changed in 273 RC (Name of previous source is Aventis CropScience S.A. Lyon, France this was 230thRC)} 2. Bayer CropScience Hangzhou Co. Ltd., No. 5 Road, Hangzhou Economic & technological Development Zone, Hangzhou, 310018, China(90%). 3. Anhui Huaxing Chemical Industry Co. Ltd., Changjing, Mid. Rd. Hefei, Anhui, China 4. Name of the source changed from : Zhejiang Hisun Chemicals Co. Ltd. 97, Waisha Road, Jiaojiang China (367th RC) to Hisun Chemical (Nantong) Co., Ltd., No.20, 4th Haibin Road, Rudong Coastal Economic DevelopmentZone, Nantongcity,Ji angsu Province, P.R. China (416th RC). 5. Bayer SAS, Bayer Environmental Science, 16 rue Jean-Marie Leclair 69009, Lyon – France 6. * Bayer Crop Science LP, USA, St.Louis through supplier (a) Bayer Crop Science AG,-Germany and (b) BayerCropScience, LP, USA, St. Louis, 80% WG 297thRC) 7. ** Bayer Environmental Science , France (348thRC) Change to Bayer SAS, Bayer Environmental Science, France (in 332nd RC in case of 0.03% Gel) 8. ***Bayer SAS, Bayer Crop Science Industrial Operations Marle, France.Through Supplier: Bayer SAS, Bayer Environmental Science, Lyon, France. Fipronil 0.05% GEL, FI/9(3). (408thRC.). 9. *** Kukbo Science Co. Ltd. 49, Sandan- RO, Heungdeok-Gu, Cheongju, Chungbuk, Korea (For grant of registration for Fipronil 0.05% Gel 392ndRC) 10. Haillir Pesticides and Chemicals Group Co. Ltd., East industry Zone, Chengyang District, Qingdao, Shndong, China (427th RC for 97% min.) 11. Hisun Chemical (Nantong) Co. ltd. (ADD: No. 20, 4thHaibin Road, Rudong Coastal Economic Development Zone, Nantong City, jiangsu Province, P. R. China) changed to Synwill Nantong Chemical Co. Ltd. (ADD: No. 20, 4thHaibin Road, Rudong Coastal Economic Development Zone, Nantong City, jiangsu Province, P.R. China)427th RC for 12. Yifan Biotechnology Group Co. Ltd., No. 136, Zhongxing Road, Wenzhou Industrial Zone,Zhejiang Province, China. Through supplier Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No. 118 Qingchun Road, Xiacheng District, Hangzh ou City, Zhejiang Province,China (411th RC). 13. Jiangsu 'I'uoqiu Agrochemicals Co. ltd., Kaitai Road, Coastal Industrial Park, Jiangsu Binhai ll,:onouric Developrnent Zone, P.R. China. Through suppl Beta Chcmicals L,td., RM 707, Block A, No. 116, Zizhuyuan Road, Haidian District, Beijing, China. 409th RC, 96% Min. 14.UPL Ltd. (439th RC)	1. GhardaChemical Ltd., Mumbai (TIM) 9 (3) in 240thRC 2. Insecticides IndiaLtd. 3. BhagirathaChemicals & Industries Ltd. 4. Punjab Chemicals and Crop Protection Pvt Limited 5. PI Industries Limited 6. Coromandal International Ltd., 7. Bharat Rasayan Ltd., NewDelhi (92%min.) 8. Hyderabad Chemicals Products Ltd., Hyderabad 9. Pest Control India (Pvt) Ltd, Mumbai (92%min.) 10. AtulLtd.,Valsad 11. Meghmani Organics Ltd., Ahmedabad 12. Tagros Chemicals India Ltd., Chennai (92%) 13. Rallis India Ltd. 14. HPM Chemicals &Fertilizers Ltd., 15. Best Crop ScienceLLP,Gajraula, UP 16. Sujanil Chemo Industries, Pune 92.0% Min. 17. Excel Phosphorus (P) Ltd., 92.0% Min. 18. Sahib Pesticides,Karnal,92.0% Min. 19. Synergia Science Pvt. Ltd. 92.0%, in 342th 20. Anu Products Ltd., NewDelhi, 92.0% Min. 21. Bayer Crop ScienceLtd. Mumbai. 22. Bonageri Crop Science Ltd., 92% min ,, in 386thRC 23. Crimsun Organics Pvt. Ltd., 92.0% Min. in 397thRC. 24. Agrow Allied Venture Pvt. Ltd., 92% w/w min.,434RC 25. Hemani Industries Ltd., 92.00% w/w min. , in 434 RC 26. R3 Crop Care Pvt. Ltd., 92.00% w/w min. , in 439RC 27. Ichiban Crop Science Limited 28. ARISTO BIOTECH & LIFE SCIENCE PVT. LTD. 29. Dharmaj Crop Guard Limited 30. Universal Agro Chemical Industries. 31. Heranba Industries Limited

150.	Flonicamid Technical 96% w/w min., *Flonicamid technical 98% w/w min.		1. Meghmani Ogranics Ltd. 2. *Crystal Crop Protection Ltd. approved in 425th RC 3. *UPL Ltd. approved in 425th RC 4. Insecticides India Ltd. (426th RC) 5. Best Crop Science Pvt. Ltd. 6. ALSC PRIVATE LIMITED
151.	Flonicamid 50% WG (FIM- WRT)	---	United Phosphorous Limited, Mumbai, 9(3), (FIM-WRT) in 326th RC
152.	Florasulam Technical 96.2% w/w min	1. The Dow Chemical Company, Building 1, Midland,MI 48667, USA through supplied by Dow Agrosciences LLC, 9330 Zionsville Road Indianapollis, IN 46268, USA (428th RC)	
153.	Florpyrauxinfen benzyl technical 92% w/w min. Florpyrauxinfen benzyl 1.31% + Penoxasulam 2.1% OD	1. Dow Agroscience India (P) Ltd. supplied by Dow Agrosciences LLC, 9330 Zionsville Road Indianapollis, IN 46268, USA (439 RC, 9(3)-TI) 2. Dow Agroscience India (P) Ltd. (439TH RC)	
154.	Flubendiamide Technical 95% min	1. Nihon Nohyaku Co. Ltd., Tokyo (Japan), Through Supplier: Sojitz corporation, Minato- ku,Tokyo, Japan. 2. Bayer Crop ScienceAG, Germany, (By Ms Bayer Crop Science Ltd. in 278th RC) Change to Bayer AG, Germany 392nd RC.)	
155.	Fluazifop-p-butyl tech	Syngenta Ltd., Huddersfield, United Kingdom(314thRC)	
156.	1. Flufenacet Tech.95%min 2. Flufenacet50.0%SC*	1. Bayer Crop Science LP, P.B. No 4913 Kansas City, Missouri, USA-64120 (249thRC) 2. *Bayer Crop Science AG,Monheim, Germany, (By Bayer India limited change 392nd RC.)	
157.	FluchloralinTechnical 55% min. & 65% min.	1. BASF WayandotteCorpn,USA 2. BASF,WestGerman.	
158.	Fluensulfone 47.0 %TC (MUP)	ADAMA Makhteshim Ltd.(formerly knownas Makhteshim ChemicalWo rustled PO box 60 Industrial ZoneBeer Sheva, 84100, Israel (389th RC)	
159.	Flufenoxuron Technical 95% min.	1.GreatLakes(UK)Ltd, Halebank	
160.		Widnes CheshireWA8,8NS,UK.(Earlier BASF Agro-production, France).	

161.	Flufenoxuron Tech. 94% min.	Great Lakes (UK) Ltd. HalebankW idnes, Cheshire WAB8NSUK. 1. Agrishell S.N.C.Zone,France. Through supplier Shell International Chemical Co.Ltd.)	
162.	Flufenzine (Flumite) Technical	Agro Chemie Pesticides mfg, Trading & Distributing Co. Ltd,Hungary (by Rotam India ltd in 261stst RC)	
163.	Fluopicolide Technical 95.5% min.	1. Bayer (Schweiz) AG, Switzerland (349th RC)	
164.	Fluopyram Technial 94.5% w/wmin	1. Bayer CropScience AG, Germany Supplier same as manufacturerer (357th RC for 94.5% w/wmin) Change to Bayer AG,Germany (392ndRC.)	
165.	Flupyradifurone Tech. 96% min, Flupyrimin technical 96% w/w min.	1. Bayer Crop Science AG, Germany. (By Bayer crop Sciences,Mumbai in 367th RC) Change to Bayer AG, Germany (392ndRC.) 2. Meiji seika pharma co. ltd., 2-4-16, Kyonashi, Chuo-Ku, Tokyo 1048002, japan Arysta Lifescience Corporation (approved in 434th RC)	
166.	Fluxapyroxad 333 g/l FS (FI- WRT)	1. BASF Agri-Production S.A.S., Zone Industrielle Lyon Nord, Rue, Jacquard69727 GenayCedex,France. (365th RC)	
167.	Fluxapyroxad technical 98.0	1. BASFSE ,Carl Bosch-	
168.	% min	Strasse38,D- 67056,Ludwigshafen,-Germany.(366th RC	
169.	Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC for import	BASF Sparks, LLC, 14284 Highway 42North,Sparks,Georgia31647,US A.(366thRC)	
170.	Fluxapyroxad 75 g/l w/v + Difenconazole 50 g/l w/v SC	BASFEspanolaS.L.Cltr.Nacional, N-340 km1, 15643006Tarragona,Spain (399thRC)	
171.	Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC for import	1. BASF EspanolaS.L.Ctra.Nacional N340 Km 1,156 43006TarragonaFlux ,Spain (386th RC)	
172.	Fluxapyroxad 62.5% + Epoxyconazole 62.5%g/lEC	1. BASF Espanola S.L Ctr. Nacional 340 Km 1156, 43006 Tarragona, Spain(371/372ndRC)	
173.	Fluxametamide technical 93.5% w/w min. Fluxametamide 10% EC	1. Nissan chemical corporation. Supplier from Nissei corporation Nihonbashi, Honcho,I-Chome, chou-ku,Tokyo, 1030023, Japan. Source 2. Nissei corporation, 5-1, Nihonbashi,2-Chome, chou-ku,Tokyo, 10360119, Japan	

174.	1.Flusilazole Technical 92.5%min, 1. FlusilazoleTechnical 95% min.*	1. DuPont de Nemous (France) S.A. DUPont Agricultural Products, 82, Witelshein–B.P. 9, Cernay, France(255th RC, 92.0% min) 2. * Anhui Huaxing Chemical IndustriesCo. Ltd.,No. 6, Hongfeng Road,HefeiP.R.China (370th RC) 3. Bingo Technology Ltd, Add.:- 5/F Hong Kong trade centre,161-167 Des Voeux road central, Hong Kong (413th RC 95%min.)	
175.	Fluthiacet-methyl Tech. 95%min.	1. Jiangsu Lianhe chemical Technology Co, Limited, Weiyi Road, Chenjiagang Chemical Industry Area, Xianshui, Yancheng, Jiangsu Province,China, 224631 ThroughSupplier: FMC corporation, 2929 Walnut street, Philadelphia, Pennsylvania, PA 19104, USA. (386thRC)	
176.	Fluroxypyr meptyl 48% W/v (45.5% w/w) EC FI-WRT	1. Dow Agro Sciences S.A.S Drusenheim, BP20-8 route de Herrlisheim, 67410 Drusenheim- France through supplier Dow Agro Sciences S.A.S Drusenheim,BP 20-8 route de Herrlisheim, 67410 Drusenheim-France(428th RC)	
177.	Fomesafen Technical 95% min Fomesafen 12% + Quizalofop ethyl 3% SC	1. Jiangsu Changqing Agrochemical Co. Ltd., No. 1 Jiangling Road Putou Town, Jiangdu, Jiangsu- 225 218 PRC(360thRC) . Inner Mongolia Join Dream Fine Chemicals Co. Ltd. (Add. Zhiongcheng Road East, Wuda Economic Development Zone, Wuhai 016000, Inner Mongolia, China) and through supplier Hebei Bestar Commerce and Trade Co. ltd., (Add.6-3-203 No. 66 Dianda Street, Xinhua District, Shijiazhuang, Hebei, China) (421st RC)	
178.	Fluvalinate Technical 88% min.	Novartis Crop Protection, AG,Switzerland.	Syngenta India Ltd.
179.	Flurochloridone 18.3% CS		Adama India Pvt.(439th RC)
180.	Forchlorfenuron (CPPU) Technical 98%min.		1. Omega Fine Chemicals Mumbai 9 (3) , 98.0% min in 289th RC 2. Mauni Agro Chemical Industries Pvt.Ltd. Kopargaon. 3. Sunshine Fine Che sol India Pvt. Ltd. Matrix Biocontrol (India) Pvt. Ltd., Nashik,98% min
181.	Forchlorfenuron 0.12%EC	AIZChemTrostbergGmbH,Postfach -1262, D-83303,Trostberg, Germany (311st RC)	

182.	Fosetyl-Al Technical 95% min. 96% min*	1. Bayer, S.A.S, 16 rue Jean-Marie Leclair 69009,Lyon,France through Supplier Bayer Crop Science, AG, Germany 2.* Zhejiang Jiahua Chemical Co. Ltd., China through Supplier Bayer CropScience, AG, Germany 96.0 % min (366thRC)	.
183.	Gibberellic Acid Technical 90% min.	1. Valent Bioscience Corp. 2. Polfa Pharmaceutical Works, Poland Suppliedby:Ciech Poland. 3. Phylaxia Veterinary Biologicals, Budapest, Hungary. Supplied by:-Medinpex, Hungary. 4. ZenecaLtd., UK. 5. Hunan Biological Medicine Factory, China.through Hunan Yahua Seed Corporation Ltd., Changsa, China. 6. Capd, Abbotlab,USA 7. Jianxi New Reyphon Biochemicals Co. Ltd.,China through supplier Willowood Ltd., Hong Kong, (390thRC) 8. Zhejiang Qinjiang BiochemicalCo. Ltd., Add: 598, Xishan Road, Haining Zhejiang, China and suppliedby Shanghai Agrotree Chemical Co. Ltd., Add: Room B515, No. 2250, South Pudong Road, Pudong, Shanghai 200127, P. R. China. (424th RC 90% min.) 9. Zhejiang Qianjiang Biochemical Co. Ltd, No-598 Xishan Road, Xiashi, Haining, Zhejiang,China. through supplier Hebei Bester Commerce and Trade Co. Ltd.. 64-203 No. 66 Dianda Street Xinhua District.Shijiazhuang, China. (426th RC, 90% min.)	1. Shankar & Sastry Ltd.,Bangalore 2. KrishiRasayanPvt.Ltd.,Kolkata 3. Best Crop Science Pvt. Ltd. 4. Agro Life Science Corporation 5. Universal Speciality Chemicals Pvt. Ltd. 6. PEPTECH BIOSCIENCES LIMITED 7. Ichiban Crop Science Limited
184.	Gibberellic Acid 40.0% WSGFI Gibberellic Acid 0.1% GR	1. Valent BioSciences Crop, 870 Technology Way,Libertyville, IL, 60048, USA	Sumitomo Chemical India Pvt. Ltd , Mumbai in 362nd RC) Sumitomo Chemical India Pvt. Ltd.(439TH RC)

185.	Glufosinate Ammonium Technical 50% min. (LC)	1. Bayer Crop Science AG, Frankfurt, Germany.By Bayer	1. UPL Limited, Mumbai u/ s 9(3) 50.0%min TC (TIM vs TI) 383rdRC 2. Best Crop Science Pvt. Ltd. 3. Insecticides India Limited 4. Ichiban Crop Science Limited 5. CROP LIFE SCIENCE LTD. 6. HETBAN SPECHEM LIMITED 7. Bharat Rasayan Ltd 8. Canary Agro Chemicals Pvt. Ltd. 9. PEPTECH BIOSCIENCES LIMITED 10. NACL Industries Limited 11. Coromandel International Limited 12.Agrow Allied Ventures Private Limited 13. Shivalik Rasayan Limited
186.		Crop Science Ltd., India LCI) change to (Bayer AG, Germany), (Bayer Crop Science LP, Michigan,USA	
187.	Glufosinate Ammonium Technical 95% w/w min	1. Shijiazhuang Richem Co. Ltd., No. 148 Yuhua Road, Chang An District, Shijiazhuang, China and supplied by Shijiazhuang Richem Co. Ltd., No. 148 Yuhua Road, Chang An District, Shijiazhuang, China (428thRC)	

188.	Glyphosate Tech. 95% min.* Glyphosate IPA Salt Technical 62 % min.	1. Cheminova A/s P.O Box 9, DK-7620, Lemvig, Denmark. (218th RC) 2. *Hebei Golhil Chemical, Co. Ltd, Tongda Road, Jinzhou city, 052260, Hebei, China Through supplier Hebei Bestar commerce and Tradelco. Ltd., 148, East Yuhua Road, Shejiazhuang, 050031, China (95% Min) (348th RC 4. *Jiangxi Jinlong Chemical Co. Ltd. Tashan Industrial Park of Leping City of Jiangxi Province, China through supplier Willowood (Hangzhou) Co. Ltd. Room No. 2003,Golden Plaza No.118,Qingchun Road, Xiacheng, District, Hangzhou city, Zhejiang Province, China 95.0% min Nantong Jiangshan Agrochemical & Chemicals Limited Liability Co., No. 998 Jiangshan Road, Nantong Economic & Technological Development Zone, Nantong, Jiangsu, China through supplier Sinochem International Corporation, 19/F, JinmaoTower, No.88 Century 5. *Anhui Huaxing Chemical Industry Co. Ltd., No.6, Hongfeng Road, Hefei P.R.China. Factory Add: Wujiang Town, Hexian County, Anhui, P. R. China P.C: 238251(426th RC,95%) 6. Monsanto Company, USA changed to Bayer Crop Science LP, USA (428th RC) 7. *Shanghai Agrotree Chemical Co. Ltd., Room B515, No.2250, South Pudong Road, Pudong New Area, Shanghai, China) changed to FJ Agrochemicals Co. Ltd., Add. RM1113, B Building No.2419, Hunan Road, Shanghai, China (428th RC) 8. *CAC Nantong Chemical Co. Ltd., Fourth Huanghai Road, Yangkou Chemical Park, Rudong County, Nantong City, Jiangsu Province, P. R. China through supplier Thai Harvest Limited, RM.G, BLK4, 13/F, Kwun Tong Industrial Centre, 432-446, Kwun Tong Road, Kwun Tong KLN, Hong Kong (428TH RC) 9. Shanghai Hujiang Biochemical Co.Ltd No.355, Xinjian East road, Nanqiao Town Fengxian Shanghai China through supplier Shanghai Agrotree Chemical Co.Ltd., Room B515, No. 2250, South Pudong Road, Pudong New Area, Shanghai, China(413th RC, 95% Min.) through supplier F.J. Agrochemicals Co Ltd., 281 Huarun Times Square' No. 500, Lhangyang Road, Pudong District, Shanghaio China (417th RC, 95% min)	1. Atul Ltd.,Valsad 2. Excel Crop Care Ltd. Ltd.,-Mumbai 3. Gharda Chemicals Ltd.,Mumbai 4. Chemtura Chemicals India Pvt. Ltd. 5. Ravi OrganicsLtd. 6. Meghmani IndustriesLtd. 7. Insecticide IndiaLtd. 8. Crystal PhosphatesLtd 9. Hyderabad Chemicals Products Ltd., Hyderabad 10. Krishi Rasayan Pvt. Ltd., Kolkata 11. United Phosphorus Ltd.,Vapi 12. Punjab Chemicals & Crop Protection Ltd 13. Rotam IndiaLtd 14. G S P Crop ScienceLtd 15. Siris Crop Science Ltd., New Delhi 16. Jai Shree Rasayan Udyog Ltd, Nathupur, Sonepat (Haryana) 17. Heranba Industries Ltd,Mumbai 18. Shivalik Rasayan Ltd, New Delhi 19. Sharda worldwide Exports Pvt Ltd, Mumbai. 20. Cheminova Inida Ltd., Gujtrat 21. Sabero Organics GujaratLtd. 22. Bharat Rasayan Ltd., Delhi (95%) 23. Exel Industries Ltd., ROHA(Maharastra) 24. HPM Chemicals & FertilizersLtd., N. Delhi 25. Best Crop Science LLP, Gajraula, UP 26. Sonachi Industries Ltd.95.0% min. 27. Samradhi Crop Chemicals, 95.0% min. 28. Sun Pesticides Pvt. Ltd 95.0% min. 29. Hemani Industries 95.0% min. 30. Agrisol (India) Pvt. Ltd., 95.0% min. 31. Agrico Organics Ltd., New Delhi, 95.0 % min. 32. Baroda Agro chemicals Ltd., Gujarat, 95.0 % min. 33. Aristo Biotech Life Sceince Pvt. Ltd., 95.0 % min. , in 401stRC. 34. Ichiban Crop Science Ltd., 95.0 % min. , in 405th RC. 35. Maheshwari Biochemical Pvt. Ltd., Sirsa

189.	Glyphosate IPA Salt Technical 62%min		Tropical Agrosystem (India) Pvt. Ltd. (428th RC)
190.	Halosulfuron Methyl 75% WG (FI-WRT),*97% w/w min.	1 Nisan Chemical Industries Ltd, Kowa- Hitotsubashi Building, 7-1, 3- Chome, Kanda-Nishiki-cho, Chiyoda- Ku, Tokyo- 101-0054. Japan Through supplier Nissei Corporation 10-5 Nihonbashi – Honcho-1CHome,Chou- ku, Tokoyo, Japan (By Dhanuka Agritech ltd., New Delhi in 349th RC Change to Nisan Chemical Corporation, 5-1, Nihonbashi, 2- Chome, Chou-Ku, Tokyo (10136119), Japan.(412th RC) 2. *Nissan Chemical Industries Ltd.,- Kowa Hitotusubashi Building, 7-1, 3- Chome, kanda-Nishiki Cho, Chiyoda-ku, Tokyo-101-0054 through supplier Nissei Corporation, 10-5, Nihonbashi- Honcho, 1-Chome. Chuo-ku, Tokyo, 103-0023, Japan (428th RC)	1. Coromandel International Ltd. 9(3) in 426th RC meeting for 96% min.* 2. Best Crop Science Pvt. Ltd.
191.	Haloxyfop R Methyl 10.5% EC (FI-WRT)	1. Dow Agro Sciences S.A.S.,B.P.20- 8Route de Herrlisheim ,67410, Dusenheim, France (365th RC)	
192.	Halauxifen methyl Technical 93% Min.	Dow Chemical Company, Mi Operations, Building I, Midland, Ml 48667, USA Through supplier Dow Agroscience LLC, 9330 Zions Ville Road, Indianapolis, IN 46268, USA (429th RC, 93% Min.)	

194.	Hexaconazole Technical 92% min.		1. RallisIndiaLtd. 2. Heranba Industries Ltd.,Valsad 3. Tagros Chemicals India Ltd,Chennai 4. Gharda Chemicals Limited, Mumbai 9 (4) in243rdRC 5. BharatRasayanLimited,NewDelhi 6. Punjab Chemicals & Crop ProtectionLtd. 7. CrystalPhosphatesLtd 8. MegaInnovativeCropsPvt.Ltd., Ankleshwar 9. Shriya Chemicals PvtLtd,-Mumbai 10. IndofilIndustriesLtd.,Andheri(E), Mumbai 11. Shivalik Rasayan Ltd,NewDelhi 12. Crop Life ScienceLtd,Ankleshwar 13. AtulLtd.,Valsad 14. HyderabadChemicalProductsPvt. Ltd. 15. Coromandel International Ltd. 16. Astec Life SciencesLtd.,-Mumbai 17. Meghmani Industries Ltd.,Ahmedabad 18. SudarshanChemicalIndustriesLt d.,Pune 19. BestCropScienceLLP,Gajraula, UP 20. HPM Chemicals &Fertilizers Ltd., N. Delhi 21. AmbeyLaboratoryPvt.Ltd. New Delhi 92.0% Min 22. Agrico Organics Ltd. NewDelhi,92.0% Min 23. Hemani Indutires Ltd 92.0% Min 24. M/sAgr-EhTechnologiesPvt. Ltd.,92.0% Min 9 (4) in395thRC 25. Meenakshi Agro Chemicals, 92% w/w min. (434 RC. 25. Agrow Allied Ventures Pvt. Ltd., 92 % w/w min. (434 RC. 26. Bharat Products Ltd., 92% w/w min. ,437 RC. 27. Ichiban Crop Science Limited 28. Crop Care Organics LLP

195.	Hexazinone 13.2% + Diuron 46.8% WP	E.I DuPont de Nemours and Company,USA with manufacturing address Van Diest Supply Co,.Webster City, Iowa, USA . (289thRC)	. M/s Insecticides India Ltd.,(Diuron Technical),98% min,, in 386th RC
196.	Hexythiazox Technical, 97% Min.	1. Nippon Soda Co. Ltd., shin- OhtemachiBlg 2-1,2-Chome Ohtemachi,	1. Coromandel International Ltd., Secunderabad9 (3) in 306thRC 2. Agrisol (india) Pvt. Ltd
197.		Chiyoda-ku, Tokyo, Japan 87.0%Min (By Biostadt India Ltd , Mumbai in 284thRC) 2. Name of the Source changed from Zhejiang Heben pesticide &Chemical Co. Ltd. Liandun Road, Houjing Village, Yanijiang Industrial Area, Yangyi Wenzhou, Zhejiang, P. R. Chinato Jiangsu Heben Biochemical Co., Ltd. Yangkou Chemical, Area, Nantong, Jaingsu, China (417thRC) 3. Jiangsu Runze Agrochemical Co. Ltd., No. 16, HouyangHuagong Yuan Qu Road, Jintan, Jiangsu, China. through Supplier Willowood (Hangzhou) Co. Ltd.,Room2003, Golden Plaza No. 118,Qingchun Road, Xiacheng District,Hangzhou City, Zhejiang Province,China.(369thRC)	
198.	Hydrogen cyanamide Technical 49%min. 50% Sl Tech	1. Nippon Carbida Ind. Co. Inc. NCL Bldg. No. 11- 19-2-Chomeoconan-Mineto 108- 8466, Japan. 2. Degussa Ag, Postpach-1262, D- 83303, Trostberg,Germany. 3. AlzChemTrostbergGmbH,Postfach1 262, D -83303 trostberg,Germany.	1. Ruchichem,Pune 2. Mauni Agro Chemcal Industries Pvt.Ltd.,Kopargaon.
199.	Imazamox Technical 93% w/wmin.	BASF Corporation, Hannibal Plant, 3150 Highway JJ, Palmyra Missouri, USA 93.0% Min .(362nd RC)	
200.	Imazamox-35%+Imazethapyr 35%WG (FI – WRT)	BASF Agriculture Products de PuertoRico RouteNo.2km47.3.P.O. Box43,Manati, PuertoRico006704US-A(314th RC)	

201.	Imazethapyr Technical 90% min, 93% min.*, 98% min **, 97.00% w/w min., 95%w/w min.,	1. BASF Corporation, Hannibal, Missouri, USA 2. Amrican Cyanamid Company, Hannibal, Missouri USA (By ACCOIndustriesLtdin 2000 year) 3. BASF Corporation, 14385 West Port,Arthur road, Route# 4, Box 327, Beaumont TX 99905, USA (90%min) 4. * Milenia Agrociencias S/A, Londrina, Brazil 93.00% min (329thRC) 5. *ADAMA, Brazil S/A, Rua Antoniopedro de Souza, 400, Parque Rui Barbosa, 86031610, Londrina, PRBrazil (93%min.) 6. Shenyang Research Institute of Chemical Industry, No. 8, Shenliaodong Road, Shenyang, Liaoning Province, P.R. China. Through Supplier: Willowood Limited, 17th Floor, Sea view Plaza, 283-Shau Kei WanRoad, ShauKeiWan,HongKong (344thRC) 7. Jiangsu Flag Chemical IndustryCo. Ltd. Changhfenghe Road, Nanjing Chemical Industrial Park, Luhe district, Nanjing, china- 210047. (344th RC 90.0% Min). 8. **Shendong Cynda Chemical Co. Ltd., Economic Dovelopment Area, Boxing County, Shandong,P.R.Chinaregdfor98% min through Supplier: Shendong Cynda Chemical Co.Ltd.,EconomicDovelopment Area, Boxing County, Shandong, P.R. China. 98.0% Min (359thRC NewSource) and (365thRC). 9. **Henghui Jingmei Chemical Industrial Co. Ltd. , Xiaozhang BASF Agriculture Products de PuertoRico Route No.2 km 47.3. P.O.Box 43, Manati, Puerto Rico 006704, USA (344th RC 90.0% Min). 10. BASF Agriculture Products de PuertoRico RouteNo.2 km 47.3.P.O.Box 43, Manati, Puerto Rico006704, USA 11. Shenyang Sciencreat Chemical Co Ltd., Xiheejiubei Street, 17,Shenyang Economy and Technology Development Zone, Shenyang, Liaoning, People's Republic of China (424th RC97% min.) 12. ** weifang Cynda chemical Co. ltd. Add. No. 2 of east partial lingang chemical zone, Binhai economic development area, weifang Shandong,P.R.China.(supplier is same as manufacturer by applicant Shardaworldwide export pvt. Ltd. 365 RC)(	1. AstecLifeSciencesLtd. Mumbai., 9(3) ,97.0% min in 349thRC 2. InsecticidesIndiaLtd,Delhi, 9(3) , 93.0% min in350thRC 3. Best Crop Science LLP, 97.0% Min. 4. Agrow Allied Venture Pvt.Ltd 93% min 5. AgricoOraganicsLtd NewDelhi97% min 6. GhardaChemicals Ltd Mumbai,97% min 7. MeghmaniIndustriesLtd.,97%mi n 8. .KrishiRasayanExports,Ne w Delhi, 97% min GSP Crop Science Pvt. Ltd., 97%min 9. Maheshwari Biochemical Pvt. Ltd., Sirsa, 10. UPL Limited, Mumbai., 97% min 11. Godvari Farm Chemicals Industries Ltd., 93% min , in 394thRC 12. Shivalik Rasayan Ltd., 97% min , in401stRC 13. Ichiban Crop Science Ltd. in 421st RC 14. M/sSahib Pesticides,93%min, in405thRC 15. Bhagiradha Chemicals & Industries Ltd.,93%w/w min. in 393rdRC. 16. Agro Life Science Corporation, 97% min , in437 RC 17. Anu Products Limited 18. Ichiban Crop Science Limited 19. Agro Life Science Corporation

202.	Imazethapyr Technical 95% min., 98% min.	1. ZIBO NAB Agrochemicals Limited North of High-Tech, Industrial Development Zone, Zibo, Shandong, China 256410 (423rd RC for 95% min.) 2. Shandong Cynda Chemical Co. ltd. (Economic Development Zone, Boxing County, Shandong, P.R. China) changed to Liaoning Cynda Chemical Co. Ltd. (ADD: No. 88 of Street, Economic Development Zone, Huludao, Liaoning, P. R. China) (427th RC for 98% min.)	
203.	Imazethapyr 70% WG 9(3).	1. BASF Agriculture Products de Puerto Rico Route No. 2 km 47.3. P. O. Box 43, Manati, Puerto Rico 006704 USA (343rd RC)	

204.	Imidacloprid Technical 94% min., 95% min., 96% min, 97% min.	1. Bayer Crop Science AG, Germany., change to Bayer AG, Germany), (392ndRC) 2. Wuxian Pesticides Factory Jiagsu, China (223rdRC). 3. Suzhou Bianzing AgroBiochemical Co. Ltd., Modu, Suzhou, Jiangsu,China 4. Qingdao KYX Chemical Co., Ltd. Shuiji Industry Zone Laixi District, Qingdao, China, Zip-266071 (354th RC) 5. Rudong Huasheng Chemical Co. Ltd. Yangkou chemical industrial park, Yanhai Jiangsuchina Through Supplier: Shenzhen SushanTechnologyCo., Ltd. Room No. 2410, Block C Huangdu Plaza, Guangdong Province China (Hubei Sanonda Co. Ltd., 93 East Beijing Road, Jingzhou, Hubei, China, Change to ADAMA Ltd., 93, East Beijning Road, Jingzhou, Hubei, China 434 001 through supplier ADAMA Celsius B. V, Curacao Branch. (408th RC.) 7. hebei Yctian Agrochemical Co. Ltd., Industrial Zone, South of Yuanshi Countyo Shijiazhuang, China. through supplier M/sHebei Bestar Commerce and l'rade Co. Ltd., 6-3-203 No. 66 Dianda street Xinhua District Shiiiazhunag, China (409th RC, 97% Min. Hailir Pesticides and Chemicals Group Co. Ltd., East Industry Zone, Chengyang District, Qingdao, Shandong, China (434th RC, 95% min.)	1. CheminovaIndiaLtd., Mumbai,,9 (3) , in 220th RC 2. Excel Crop Care Ltd., Mumbai 9 (3) ,94.0% min in 230thRC 3. Nagarjuna Agrichem, Hyderabad , 9 (3) , in 235thRC 4. Atul Ltd.,Valsad 5. Rallis India, Bangalore 9(3) approved in 216thRC) 6. GhardaChemicals Ltd., Mumbai,9 (3) , in 248thRC 7. United Chemicals, Hyderabad 8. Krishi RasayanPvt.Ltd. 9. Crystal phosphates Ltd. 10. Shogun OrganicsLtd., Mumbai 11. Sudarshan Chemical Industries Limited,Pune 12. Astec Chemicals Pvt Limited,-Mumbai 13. Tagros India Limited,Chennai 14. MitsuLtd,Vapi 15. Hyderabad Chemical Products Limited,Hyderabad 17. PI Industries Limited,Gurgaon Coromondel InternationalLtd. 18. Punjab Chemicals and Crop protectionLtd.Mumbai 19. Salvi ChemicalIndustries,Mumbai 20. Bharat Rasayan Ltd,NewDelhi 21. Insecticide IndiaLtd,Delhi 22. Parijat Agencies,NewDelhi 23. Artee Graphite Pvt Limited, Faridabad 24. Dhanuka Pesticide Limited, Gurgaon 25. India PesticideLtd,Lucknow 26. Chemtura ChemicalsIndiaPvt 27. Sharda Worldwide ExportsPvtLtd 28. Sabero OrganicsGujaratLtd 29. Shogun OrganicsLtd.,Mumbai 30. HindustanInsecticidesLtd,Ne w Delhi 31. HermabaIndustriesLtd. 32. Ichiban Crop Science Ltd., in 431 RC 33. Agrow Allied Venture Pvt. Ltd., 94% w/w min. ,439RC. 34. Megmani Organics Ltd., Ahmedabad 35. BayerVapiPvt.Ltd.,Vapi,Gujarat 36. BhagiradhaChemicals&Industries Ltd. 37. HPM Chemicals &FertilizersLtd.,N. Delhi 38. M/s.MahamayaLifesciencePvt. Ltd. 39. BestCropScienceLLP,Gajraula, UP 40. Excel Phosphate Pvt. Ltd., 94% min, 41. Nutec Life Science Pvt. Ltd.,Pune, 94% min, 42. Mega Innovative Crops Pvt. Ltd.,94%min,in393rdRC 43. M/s Godvari Farm Chemicals 44. Agrisol (india) Pvt. Ltd 45. Rotam Crop Protection Pvt. Ltd. 46. Crop Care Organics LLP 47. Agro Life Science Corporation 48. Crimsun Organics Private Limited

205.	Imidacloprid 2.15% Gel,0.03% w/w*,0.50% RB**	1. **Bayer Environmental Science. 16 rue Jean- MarieLeclair 69009 Lyon, France(336thRC) 2. * Bayer S.A.S., 3. **Denka International b.v. Netherland Through Supplier:Bayer Environmental Science S.A.S., Lyon, France (Bayer Crop Science AG, Germany.,change to (Bayer AG, Germany (By Bayer Crop Science Ltd, in 2.15% Gel, in 392nd)	
206.	1. ImiprothrinTechnical 90%min. 2. .Imiprothrin 50.0% MUP	SumitomoChemical Co Ltd., Japan	
207.	Indaziflam 1.65% w/w + Glyphosate- isopropylammonium44.63% w/w SC FI-WRT) import without registering Indaziflam Technical	Bayer Crop Science AG ,Germany (379th/ 380th RC)	
208.	Indoxocarb Technical 66.8% min.	E.I. DuPont de Nemours & Co. Mobile plant, Agricultural Products Manufacturing Center, Highway,43-Azis-Alabama365058 USA.	1. GhardaChemicalsLtd.,Mumbai, 9(3) in244thRC 2. AtulLtd.,Valsad(67%min),9(3), in251stRC 3. Hyderabad Chem. Prod. Ltd.,Hyderabad 4. BhagiradhaChemicals&Industri es Ltd 5. HeranbaIndustriesLimited 6. InsecticideIndiaLtd 7. BharatRasayanLtd 8. MeghmaniOrganicsLimited 9. Tagros ChemicalsIndiaLtd 10. Sundew Life SciencePvtLtd 11. BestCropScienceLLP,Gajraula, UP
209.	Indoxocarb Technical 67% min and 90% min	E.I. DuPont de Nemours & Co. Mobile plant, Agricultural ProductsManufacturing Center, Highway,43-Azis-Alabama365058 USA. Through supplier Du Pont International Operations Sarl, Chemin du Pavillion, 1218 le-Groung Sacromex, Geneva, Swizerland. (298th RC)	1. Jai Shree Rasayan Udyog Ltd ,67% min 9 (4) 2. Crop Life Science Ltd., 67.00% w/w min. .in 434 RC 3. HETBAN SPECHEM LIMITED 4. CROP LIFE SCIENCE LTD 5. Agrisol (india) Pvt. Ltd.
210.	Iprodione Technical 95% min.	Bayer S.A.S, 16 rue Jean-Marie Leclair 69009, Lyon, France	
	IPROBENPHOS (KITAZIN) TECHNICAL 94% Min.		Best Crop Science Pvt. Ltd.

211.	Iprovalicarb Tech 95% min	Bayer Crop Science AG, Germany., (By Bayer Crop Science ltd in 298th RC) Change to Bayer AG, Germany (392nd RC).	
	Isocycloseram Technical (Purity 96% min.)	Syngenta India Private Limited	
212.	Isoprothiolane Technical 96% min.	1. Nihon Nobyaku Co. Ltd.,Tokyo-,Japan 2. Jiangsu Flag Chemical Industry Co.Ltd. Changhfenghe Road, Nanjing Chemical Industrial Park, china-210047 (334thRC) Luhe district,Nanjing,	1. Atul Ltd., Valsad, 9 (3) in 244th RC 2. Meghmani Industries Ltd, Ahmedabad 4. BayerCrop ScienceLtd.,Mumbai Best Crop Science Pvt. Ltd., 96%min., 5. Bharat Rasayan Ltd., NewDelhi, 96% min.,9 (4) 6. Crimsun Organics Private Limited 7. Anu Products Limited 8. Ichiban Crop Science Limited
213.	Isoproturon Technical 95% min.	1. Novertis Crop Protection, AG,Switzerland 2. Ventis Crop Science, GmbH, Frankfurt, Germany. 3. Bayer Crop Science AG,Germany.,change to Bayer AG, Germany, (392ndRC)	1. Bayer CropScience Ltd.,India(TIM) 2. Agrevo India Ltd.,Mumbai 3. Atul Ltd.,Valsad 4. Gharda ChemicalsLtd.,Mumbai 5. Montari IndustriesLtd.,Delhi. 6. Siris IndiaLtd., Hyderabad. 7. Agrico Organics ltd,NewDelhi. 8. Cheminova IndiaLtd.,Bangalore 9. Bharat RasayanLtd.,Delhi 10. Bayer Crop Science Ltd., Mumbai.
214.	Kasugamycin Technical 64% min.	Hokko Chemical Industry Co. Ltd., Tokyo, Japan. Supplier-Arysta Life Science, Corporation,Tokyo	
215.	Kresoxim methyl Technical 95.0% Min(.TIvs-FIM-WRT), Kresoxim methyl Technical 94% min. w/w. (TIM) *	M/sAnhui Huaxing Chemical Industry Co. Ltd., No. 6, Hongfeng Rodead, Hefei, P. R. China, P.C. 230088, Fac Add. Wujianng Town, Hexian County, Anhui P.R.China PC 238251 (404th RC 95.0% Min.)	1. Rallis India Ltd., 94% min TC. (TIM), 9(3) in 394th RC * (with shelf-life two year). 2. Ichiban Crop Science Limited 3. Bharat Rasayan Ltd 4. Best Crop Science Pvt. Ltd.
216.	Kitazin (Iprobenphos) Technical 94%min.	Kumaiai Chemical Industry Co.Ltd., Japan	P.I. Industries Ltd., Gurgaon

217.	Lambda cyhalothrin Technical 81% min. and 84% min. 97% min, 96.0 % min, 95% min.	1. Syngenta PLC, Syngenta Agrochemicals, Fernhurst, Hasleme, Surrey, GU 27, England.(By SyngentaIndia Ltd,Mumbai) 2. Shijiazhuang Richem Co. Ltd., No.148 East Yuhua Road, Shijiazhuang, 050031, Hebei China 97.00% min (359th RC) 3. M/s. Jiangsu Changlong Agrochemical Co., Ltd., No. 8, Tuanjiche Road, Economic Developmenl District of Taixing. Jiangsu P.R. China. Through Supplier: Willowood (Hangzhou) Co. Ltd., Room No. 2003,Goldenplaza, No.118, Qeingchun Road, Xiacheng District, Hangzhou City, Zhejiang province, China. 4. Hebei Bestar Commerce and Trade Co. Ltd., 6- 3-203 No. 66 Dianda Street Xinhua District Shijiazhuang, China Jiangsu Huifeng Agrochemicals Co. Ltd., Weier Road, South Area of Ocean Economic Development Zone, Dafeng, Jiangsu 224145, P. R. China through supplier Nanjing Bodao Logistics Co. Ltd., B#35, No. 420, Wangxin Road, Luhe District, Nanjing, P. R. China (426th RC).	1. Rallis India Ltd., Bangalore 9(3) .in 220th RC 2. Nagarjuna Agrichem,Hyderabad 9(3)in 220th RC 3. Atul Ltd., Valsad , 9 (3) in 235thRC 4. Heranba IndustriesLimited,Gujarat 6. Astec Chemicals Pvt Limited, Mumbai Gujarat Superphosphate Industries Limited,Mumbai 7. Meghmani Organics Ltd,Ahmedabad 8. Coromandel International Ltd, 9. Rotam India Limited, Mumbai(84%) 10. Bharat Rasayan Ltd,NewDelhi 11. Bhagiradha Chemicals and IndustriesLtd,Hyderabad 12. Gujarat Agro Chem Limited,Mumbai 13. United PhosphorusLtd,-Mumbai 14. SudarshanChemicalIndustriesLt d, Pune 15. Hyderabad ChemicalsProductLtd 16. Insecticide India Limited, New Delhi 17. ModernInsecticideLtd 18. HemaniIndustriesLtd 19. Tagros Chemicals India Ltd.,Chennai(84%) 20. HPMChemicals&Fertilizers Ltd ., N.Delhi 21. Best Crop ScienceLLP,Gajraula, 22. AgricoOrganicsLdtNewDelhi9(4). 23. KrishiRasqayanExportPvt.Ltd. 84.0% Min. 24. Crystal Crop Protection Pvt. Ltd., 25. Agrisol (india) Pvt. Ltd 26. Ichiban Crop Science Limited 27. Anu Products Limited 28. Dharmaj Crop Guard Limited 29. MG ORGANICS PRIVATE LIMITED 30. Shogun Organics Limited
218.	1.Lambda-Cyhalothrin 22.8% CS, 2 .Lambda- Cyhalothrin 2.43% w/w CS*	1. Syngenta chemicals B.V. Rue de Tyberchamps, 37,B-7180Seneffe,Belgium (269thRC) 2. *Syngenta Chemical B.V. Belgium, Seneffe,Belgium (425TH RC)	

220.	Lufenuron Technical 96% min.& 98% Min.*	1. Syngenta Grimsby Ltd, Pyewipe, Monthey, Switzerland. (251stRC) 2. *ShijiazhuangRichemCo.Ltd.,No.148 Yuhua Road, Chang AN Dist. Shijia Zhung, China. (375thRC)	
221.	Magnesium Phosphide 56.0 % min (Degesch Plates)	Detia Frey Berg GmbH, Dr. Werner Freybergstra, Be.11,D-69514, Landenbach, FederalRepublic of Germany (257th RC)	
222.	Malathion Technical 95% min.	Cheminova DenmarkA/s,POBox9 ,DK- 7620, Lemvig, Denmark.	1. Cyanamid India Ltd.,Mumbai 2. Hindustan Insecticides Ltd.,Delhi 3. RallisIndustrial ChemicalsLtd., Ankleshwar. 4. Coromandel International Ltd. 5. Excel Crop CareLtd.,Mumbai 6. Shivalik Rasayan Ltd.
223.	Mancozeb Technical 85% min.,	1. DowAgroScience,USA 2. DowAgroScience,Italy. 3. AgrimontSPA,Italy. 4. E.L.F.AutochemAgri.,B.V.Rotterdam, Holland 5. MontadisonSPA,Italy. 6. E.I.DuPontdeNemours&Co. Inc.,US A. 7. Sona Chem (PTI) Ltd.,South. Africa. 8. SinowayInternational(Jiangru) Company Ltd China 9. Rohn & Haas Co.,USA	1. Indofil IndustriesLtd,Andheri(E) 2. MerchemLtd.,Cochin 3. United PhosphorusLtd.,Mumai 4. SaberoOrganicsGujaratLtd. 5. HindustanInsecticidesLtd. 6. RallisIndiaLtd. 7. Punjab Chemicals & Crop Protection Ltd. 8. IndogulfCropSciencesLd.,Delhi, 85% min. 9. Mahamaya Lifesciences Pvt. Ltd., 85% min.,437RC 10. HPM Chemical & Fertilizers Ltd., 85% w/w min, in 437RC 11. India Pesticides Limited 12. Crystal Crop Protection Ltd 13. Best Crop Science Pvt. Ltd. 14. Ichiban Crop Science Limited 15. MAHAMAYA LIFESCIENCES PVT. LTD.
224.	Mandipropamid tech 93% min.	Syngenta Crop Protection AG, Munchwilen, Monthey,Switzerland (318th RC)	
225.	Mandipropamid 5.0% + Mancozeb 60.0% WG (FI)	Syngenta Production franceSAS, 55, Ruedue Fond Austria Du Val, F-27600 St- Pierre-La Garenne, France. (380th RC)	
226.	Mepiquat chloride Technical 50% TK min.		1. GhardaChemicalsLtd.,Mumbai 9(3) in 238rd RC 2. Godrej Agrovet Limited 3. Best Crop Science Pvt. Ltd.

227.	Meptyldinocap technical 90%w/w min	Dow Agro Sciences Italia S.R.L. Socio Stabilimentodi Mozzanica S.S11km, 190,224050 Mozzanica, (Bergamo) Italia (378thRC)	
228.	Mesosulfuron Methyl 3% + Iodosulfuron Methyl Sodium0.6% WG (FI-WRT)	Bayer AG, Germany formerly known as Bayer Crop Science AG, Germany, (392nd RC.)	
229.	Mesotrione Technical 74% wet basis (on theoretical dry weight basis, the purity is 94% w/w min.)	Syngenta Crop Protection Monthey AG, Route de Lile au Bois, CH1870, Monthey, Switzerland (413 RC)	
230.	Metaflumizone22%SCFI-WRT)	1. BASF Sparks, 14284 Highway 41 North, Sparks, Geogia-USA (301st RC)	
231.	Metalaxyl Technical 90% min.	Syngenta Produkte AG,Switzerland	1. United Phosphorus Limited, Mumbai 2. Syngenta India Ltd.Pune 3. Rallis India,Mumbai 4. Astec Chemicals Pvt. Ltd.,-Mumbai 5. GSP Crop Science Private Limited,Ahmedabad 6. Indofil Industries Ltd,Andheri(E) 7. Rotam India Ltd.,Mumbai 8. Meghmani Industries Ltd. Ahmedabad 9. Astee ChemicalsPvt Limited,Mumbai 10. Rotam IndiaLtd,Mumbai 11. InsecticidesIndiaLtd 12. Crystal PhosphatesLtd,Delho 13. MegaInnovativeCropsPvt Lt d, Ankleshwar. 14. Punjab Chemicals & pharmaceuticals Ltd.,Chandigarh. 15. HPM Chemicals &FertilizersLtd.,N. delhi. 16. Ichiban Crop Science, 90% w/w min. in437 RC

232.	Metalaxyl-M Technical 90% min., *94% min., 95.30% w/w min (436RC)	CABBAG Dungerstrasse81,P OBox1964, CH-4133, Prattein, Switzerland (261stRC)	1. Punjab Chemicals ProtectionLtd & Crop, Mumbai 2. Indofil Industries Ltd. 9(3) approved in 427th RC for 94% min.* 3. Best Crop Science Pvt. Ltd. 4. UPL Ltd., 95.30 w/w min. (TIM vs TI)in 436 Rc 5. Agro Life Science Corporation 6. Agrow Allied Ventures Private Limited 7. Ichiban Crop Science Limited
233.	Metaldehyde Technical 98% min.	1. Lonza Ltd. Dept-2, META Basel,Switzerland 2. B.P. Chemical Ltd., Piceadilly, London	Pesticide India, Udaipur
234.	Metamifop Technical 96%min.	Dongbu Hannong, #891-10 Daechi-dong, Gangnam- gu, Seoul 135- 523, Korea Supplier: FMC Corporation Agricultural Products Group 1735 Market street Philadelphia, PA 19103,USA (384th RC), 399th RC, FMC Corporation, 2929 walnut Street, Philadelphia, Penusylvania, PA 19104, USA.	
235.	Metiram Technical 84% min, *90% min.	BASF SE, ProductionCropPro tection,Carl- Bosch-Strasse 38, 67056 Ludwigshafen, Germany (366th RC)	1. Crystal Crop Protection Ltd. 9(3) in 426th RC meeting for 90% min*.
236.	1. Metiram70.0%WG 2. Metiram 55% + Pyraclostrobin5%WG 3. Metiram 44.0 % + Dimrthomorph 9.0 % WG*	1. BASFAktiengesellschaftProduction CropProtection 67056 Ludwigshafen, Germany 70.0%WG(251stR C) 2. BASF SE, Production Crop Protection,carl-Bosch- Strasse38,67056Ludwigshafen,Ger many (301stRC) 3. * BASF SE, Carl-Bosch-Strasse 3867056 Ludwigshafen, Germany (378thRC)	
237.	Metofluthrin Tech 93% min Metofluthrin 0.005% w/w mosquito coil	1.Sumitomo chemicals co. Ltd., Japan Trough supplier: Sumitomo Chemical Singapore Pte Ltd., Singapore (348th RC)(407th RC)	
238.	Metrafenone500g/lSC (FI- WRT) import Mefentrifluaconazole Technical 97% min.	BASF Agri Production S.A.S, Zone Industrielle Lyon Nord Rue Jacquard 69727 Genay Cedex, France. (366th RC)Manufacturer : BASF Corporation, hannibal Plant,3150 highway, J. J. Palmyra, Missouri, United States of America. (435th RC,97% min.)	

239.	1. Metsulfuron methyl Technical 93% min. 96% min. 2. Metsulfuron Methyl20% WG* 3. Metsulfuron methyl 10% w/w + Carfentrazone Ethyl 40%w/wDF**	1. Rotam Crop ScienceLtd.,China 2. DuPont Agriculture Caribe Industries Ltd. DACI Highways ManatiPuertoRico. 3. Du Pont Agriculture Chemicals Ltd., Shanghai, PudongShanghai,China. 4. * PT DuPont Agricultural Products Indonesia, BeltwayOfficeParkBuildingALt.5, JI,Ampera Raya 9-10, Jakarta, 12550, Indonesia (301stRC) 5. **DuPont deNemours(-France)S.A.S., 82 Rue de Wittelsheim BP9, F- 68701 Cernay, Cedex, France through supplier DuPont InternationalOperationsSarl,Chemi nduPavillon CH-1218 P.O. Box 50: LeGrand- 6. Jiangsu Changlong Agrochemical Co. Ltd.,No. 8, Tuanjiehe Road Economic Development District of Taixing, Jiangsu, China. through supplier Willowood (Hangzhou) Co. Ltd., Room No. 20030 GoldenPlazao No. 118, Qingchun Roado Xiacheng District, Hangzhou City, Zhejiang Province, China (411th RC,96%)	1. Atul Ltd., Valsad, 9(3) technical in235thRC 2. GSP Crop Science Pvt. Ltd., Ahmedabad 3 SirisCropScienceLimited,NewDelhi 4 Indofil IndustriesLtd,Andheri(E) 5 MeghmaniIndustriesLimited 6 Punjab Chemicals and Crop Protection PvtLimited 7 Sharda WorldwidePvtLimited 8 InsecticidesIndiaLtd. 9 Hindustan Pulversing-Mills,Delhi 10 Bharat RasayanLtd.,Delhi 11 Shahib Pesticides, Karnal, 93%min., 12 Crystal PhosphatesLtd,Delhi. 13 Best Crop Science LLP, 93%min.,9 (4) in 393rdRC 14 Godavari Farm Chemical Industries Pvt.Ltd,93%w/wmin.,in407thRC. 15 Ichiban Crop Science Ltd., 93% in 431 RC 16 Agro Life Science Corporation 17 chiban Crop Science Limited
240.		Saconnex, Geneva, Switzerland. (363rdRC) 1. from Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China to Willowood Limited, 17th Floor, Seaview Plaza, 283, Shau Kei Wan Road, Shaukei Wan, Hong Kong (429th RC)	
241.	Methabenzthiazuron Technical 90%	1. Bayer Crop Science A.G.,Germany. 2. AgrimontSPA,Italy.	
242.	Methomyl Technical 98% min.	1. E.I. Dupont de Numerous & Co. Inc., USA 2. Jiangyin Rotam Chemicals Co. Ltd., Qingyang Town, Jiangyin, Jiangsu Province , China. (223rd RC)	

243.	Methoxyfenazide 21.8% w/w SC, 97% w/w min.(437RC)	1. Manufactured by Dow Agroscience Italia s.r.l, Socio Unico, Stabilimento di Mozzanica S.S. 11 Km.190, 224050 Mozzanica (Bergamo),Italia.97%w/w min. (437RC) Supplied by Dow Agroscience, Switzerland S.A (Bachtobelstrasse, 8810 Horgen, Switzerland) (437th RC,97% min.)	
244.	Methyl bromide Technical 99%m min. & 98% min.	1. Bromine Compounds Ltd. P.O. Box No. 180, Beer-Sheva, Israel Or Dead Sea Bromine Co. Ltd.,84101Israel. 2. Sedagri Deptt., Sebram,France. 3. Ethylene International,USA. 4. Great Lakes Chemical Corpn.P.O. Box -2200 West Lafayette IN,USA 5. EIF Autochem,France 6. Bromine & Chemicals Ltd.,London 7. Membrom NV 9940, Rieme, Ertvelde, Belgium.(98%Min) 8. Lianyungang Dead Sea Bromine Compounds Co. Ltd. China(98%Min)	1. Tata Chemicals,Mithapur 2. IntechPharmaPvt.Ltd.,NewDelhi 3. Central Warehousing Corporation,NewDelhi
245.	Methyl Chlorophenoxy Acetic Acid (MCPA)	1. Name and address of source changes from Trust Crop Protection Technology CompanyLtd. No.168,SouthZhaoq uiaohe Road, Nanjing Chemical Industry Park Zone, Nanzing – 210047 to Sunrise Crop Science Co. Ltd., Address NO. 8, Liwan Road, salt chemical new material industry park,Huaian,Jiangsu,P.R.China(418th RC) 2. Sunrise Crop Science Co., Ltd., China	
246.	MetiramM 70% WG &98% minTechnical*	1. BASFAktiengesellschaftProduction-Crop Protection67056Ludwigshafen,-Germany 2. *M/sBASFSE,-Carl-Bosch-Strasse38,D- 67056,Ludwigshafen,Germany	
247.	Metolachlor Technical 95% min. 97% w/w min.	NovartisCropProtection,AG,Switzerland. UPL Ltd.	1. Best Crop Science Pvt. Ltd. 2. Ichiban Crop Science Limited 3. Agro Life Science Corporation
248.	Metamitron Technical 98.00% w/w min.(w/w), 90% Min	-	1. Punjab Chemicals & Crop Protection Ltd., Mumbai, 98% min (w/w) (TIM) 9(3), in 387th RC 2. Best Crop Science Pvt. Ltd. 3. Ichiban Crop Science Limited 4. HemaniIndustries Ltd., 5. Best Crop Science Pvt. Ltd. .

249.	Metoxuron Technical 97% min.	Novartis Crop Protection, AG,Switzerland	Atul Ltd., Valsad
250.	Metribuzin Technical 88% min., 95% w/w Min.	1. Bayer Crop Science LP, 8400, HawthornRoad,Kansas-City, MO 2. 64120,(232 RC) 3. Bayer Crop Science AG, Germany., change to Bayer AG,Germany) (392ndRC. 4. Changzhou Wujin Henglong Pesticide Co. Ltd., Commercial Development zone, Ximenboyi Town, Changzhou City, Jiangsu, P.R. China through supplier – WillwoodLtd.17-F,Seaview Plaza, 283 Shau Kei Wan Road, Hong Kong, 88.0% min (335th RC) 4. Hebei Xingxing chemical Industries Co. Ltd., Songlindian, Zhuozhou, Hebei, China.Through Supplier: Hebei Bestar Commerce and Trade Co. Ltd. , No. 6-3-203, No. 66, Dianda Street Xinhua District Shijiazhuang, China. (405thRC.)	1. Rallis IndiaLtd.,Mumbai 2. Meghmani Industries Ltd. 3. SiriCropScienceLimited, New Delhi 4. Punjab Chemicals and Pharmaceutical Ltd, Chandigarh 5. Ravi Organics Ltd, 6. GSP Crop Science Pvt Ltd, Ahmedabad. 7. Bharat RasayanLtd.,Delhi 8. Coromandel International Ltd. 9. Best Crop Science LLP, Gajraula,UP 10. Atul Ltd., Valsad, 88% min 11. Jai Shree Rasayan Udyog Ltd.,88%min 12. Hindustan Pulverising Mills, Delhi,88% min 13. Agrow Allied Venture Pvt. Ltd., 88% min , in 434 RC 14. Agro Life Science Corporation, 88% min , in 434 RC 15. Mahamaya Lifesciences Pvt. Ltd., 88% min , in 439 RC 16. Mega Innovative Crops Private Ltd. 17. India Pesticides Limited 18. Agrisol (india) Pvt. Ltd 19. Godrej Agrovet Limited 20. Ichiban Crop Science Limited 21. Shogun Organics Limited 22. Shivalik Rasayan Limited 23. Greenkem Organics Private Limited 24. Hemani Crop Care Private Limited 25. Crop Care Organics LLP
251.	Milebemectin1%EC (FI- WRT)	Sankyo Agro Co. Ltd., TokyoJapan supplied by Mitsubishi Corpn., Tokyo, Japan(244 thRC)	

252.	Monocrotophos Technical 74%min. & 68*% min.	1. Shen Hong Agril Chemical Co. Ltd.,Taiwan. 2. Shell International Chemical Co.Ltd.,USA 3. Shell International Chemical Co. Lted. UK. 4. Shell Netherland Chemie B.V.,Netherland. 5. Taiwan-Tainan Giant Ind. Co. Ltd.,Taiwan. 6. Antiparassited per Agriculture, SPA Vspitale Interments, versato,Italyl. 7. Agrimont, SPA,Italy 8. Sundat (S) Pte. Ltd.,Singapore 9. Sinoway International (Jiangsu) Company Ltd.China	1. Cheminova India Ltd.,Mumbai 2. De-Nocil Crop Protection Ltd.,Mumbai. 3. Coromondel International Ltd. 4. Secundrabad Hindustan Insecticides Ltd., Delhi. 5. Vantech Industries Ltd.,Hyderabad. 6. Meghmani Organics Ltd,Ahmedabad 7. United Phosphorus Ltd.,Mumbai 8. Sabero OrganicsGujaratLtd. 9. Hyderabad Chemical Products Pvt. Ltd. 10. India Pesticides Ltd.(68%) 11. Gujarat Insecticides Ltd.,Ankleshwar (68%) 12. Bharat Rasayan Ltd., Delhi(68%) 13. SudarshanChemicalIndustriesLtd. Pune(68%), 14. Syngenta India Ltd. (68% minTIM) 15. HPM Chemicals & FertilizersLtd., N. Delhi
253.	Myclobutanil Technical 90%min. 92%min, 95%w/w min.	1. Dow AgroScience,Italy. 2. Yifan Biotechnology Gram Co. Ltd. No. 136, Zhongxin Road, Wenzhou Industrial Zone, Zhejiang Province China. Through Supplier:Willowood (Hangzhou) Co. Ltd.,Room No.2003, Golden Plaza, No.118, QingchunRoad,Xiacheng-District,Han gzhou City, Zhejiang Province China.(393rdRC) Jiangsu Frey Agrochemicals Co. Ltd., Chemical industrial Park, Duigougang town, Guannan,Lianyungang, Jiangsu, P.R. China (409th RC) Through Supplier Hebei Bestar Commcrce and trade Co. Ltd., 6-3-203 No. 66 Dianda strect Xinhua District Shi.iiazlrunag, China (409th RC)	1. Nagarjuna Agrichem Ltd., Hyderabad 9 (3) in291stRC 2. IndofilIndustriesLtd.,Anddheri(E),Mumbai 3. Meghmani Industries Ltd.,Ahmedabad 4. Bonageri Crop Science Ltd. 92% min. 9 (4) 5. Krishi Rasayan Export Pvt. Ltd., New Delhi 92% min. 6. Astec Life Science Ltd., Mumbai, 92%min. 9 (4)
254.	Novaluron Technical 96%min.,	1. Makhteshim Chemicals Works Ltd.,P.O.Box 60,Beer, Sheva,84100 – Israel (326 thRC)	1. United Phosphorous Ltd. Vapi(Gujarat)9 (3) in309thRC 2. BestCropScienceLLP,Gajraula, UP 3. Sahib Pesticides
255.	Novaluron10% EC, 8.8%SC&	1. Makhteshim Chemicals Works Ltd., P.O. Box 60,Beer,Sheva,84100– Israel(252ndRC)	

256.	Neem Extract Concentrate Containing Azadiractin Technical 25%w/wmin.		1. National Tree Grower CopFed. Ltd 10.0%9(3) in 220t hRC 2. P.JMargo(P)Ltd,Bangalore15.0 in 232ndRC 3. MsE.I.DParry(I)Ltd.,1.0%u/s9 (3) in 262th RC 4. SJS BiotechInternatiol, 25%w/ wmin. in 390 RC 5. S. S. Biochem (India) Private Limited
257.	Orthosulfamuron 50%WG (FI-WRT)	Isoagro SPA Sentro Uffiei San Siro FabbricatoD-ala3,ViaCaldera-21,20153, Milano (Italy) (322nd RC)	
258.	Oxadiargyl Technical 96% min.,	Bayer, S.A.S, 16 rue Jean-MarieLeclair 69009, Lyon, France	Bayer Crop Science Ltd., Mumbai 9(3) in 256th RC Crimsun Organics Private Limited Crystal Crop Protection Ltd
259.	Oxadiazon Technical 92% min.	Bayer S.A.S, 16 rue Jean-Marie Leclair 69009, Lyon, France	
260.	Oxathiapiprolin Technical 95%w/ wmin.	Saltigo GambH, 51369 Leverkusen, Germany a designated manufacturer ofE.I. DuPont de Nemours and Company, Wilmington, Delaware USA Through Supplier: M/sDuPont International Operations Sarl Chemin du Pavillon 2CH- 1218;Le Grand-Saconnex Geneva,Switzerland) (386th RC)	
261.	Oxathiapiprolin 10.1%w/w OD	DuPontdeNemours(France) S.A.S. 82rule de Wittelsheim BP9 F-68701 CernayCedex France(386thRC)	
262.	Oxycarboxin Technical 97% min.	Uniroyal chemical Co. INC., USA	
263.	Oxydemeton-methyl Technical 50% min.	Bayer AG, Germany.	
264.	Oxyfluorfen Technical 70% min.	1. Dow AgroScience,USA 2. ADAMAAganLtd.P.O.B.262,Ashdod, Israel.	

265.	Oxyfluorfen Technical 97% min.	1. Yifen Biotechnology Group Co. Ltd., No. 136, Zhongxing Road, Wenshou Industrial Zone, Zhejiang, PR China.Through supplier: Willowood (Hangzhou) co. Ltd., Room No. 2003, golden Plaza, No.- 118, Quingchun Road, Xiacheng district, Honzhou City, Zhejiang Province, China. (349thRC) 2. Shangyu Nutrichem Co. Ltd., No. 9Weijiuroad, Hangzhou Gulf Fine Chemical Zone, Zhejiang, 312369, China through same supplier name. (363rd RC). 3. Jiangsu Zhongyi chemical Co. Ltd. Industrial Zone, Change to Jiangsu LulilaiCo., Ltd. Add No. 2, ShugangRoad,XiangshuiEco- Chemical Industries Park, 4. JiangsuPro vince, China. (395th RC.)	1. Best Crop Science LLP approved in 425thRC 2. Indofil Industries Ltd., 97% min. in 434 RC
266.	Paclobutrazol Technical 95% min.	1. Jiangsu Sword Agrochemicals Co.Ltd, No.1008, East Guanhua Road, Jianhu County, China Supplier: Chongquing Shining Fine Chemical Co. Ltd, China (327th RC)	1. Cheminova India Ltd . 95%. 9(3) in365thRC 2. M/sGSPCropSciencePvt. Ltd.,95 % min. in397thRC 3. M/sBestCropScienceLLP.,95% min. in407thRC 4. India Pesticides Ltd., 95% w/w min.in 434 RC 5. Peptech Biosciences Ltd., Paclobutrazole technical 95% w/w, in 434 RC. 6. Bonagiri Life Science Ltd., 95% w/w, in 434 RC. 7. Omega Fine Chemicals 8. Best Crop Science Pvt. Ltd. 9. Sahib Pesticides 10. Astec LifeSciences Limited 11. Bharat Rasayan Ltd 12. PEPTECH BIOSCIENCES LIMITED 13. India Pesticides Limited 14. India Pesticides Limited 15. India Pesticides Limited 16. Insecticides India Limited 17. AIMCO PESTICIDES LIMITED 18. Heranba Industries Limited
267.	Paclobutrazol 23% SC (FI)	1. Syngenta Agrochemicals, Fernhurst hasleme,Surrey,UK 2. PGR International Pty Ltd., 4, Diary Road, Werribee, Vic. 3030, Australia (326thRC)	

268.	Paraquat dichloride Technical 40% min.,42% min. (418RC) *	1. Comlets Chemical Industrial Co. Ltd., Taiwan (With purity of the product 40.0%Min), 439 Rc) 2. Syngenta Limited, Huddersfield, West Yorkshire HD2 1FF, United Kingdom(by SyngentaIndia,Mumbai) *Sinon Corporation, Regd. Office 1 FL.,No.23,Sec1,MeiChuanW.Rd.,Taic hung,Taiwan,ROC{Factory address 101, Nanrong Rd., Ta Tu District, Taichung City, 43245, Taiwan, Taiwan (Supplier: Sinon Corporation, Taiuchung) (319th RC) 3. Jiangsu Noon Crop Science Co. Ltd., Add. North of Xujia fast- track Xujhou Industrial Park, Jiangsu China through supplier F.J. Agrochemicals Co.Ltd. Add. 1113, No. 13, Lane 2419, Hunan Road, Pudong, District Shanghai, P. R. China (418th RC, 42%) 4. Shandong Qiaochang Chemical Co.Ltd.Add: South of Xinyongshen Road, Binbei,Bincheng District Binzhou City Shandong, China through supplier Shandong Agrotree Chemical Co Ltd. Add: Room 7l2The Barony Wanyuam Hotel, No.599 Pudong Avene, Shanghai, China. (429th RC)	1. Crystal Phosphate Ltd.,NewDelhi 2. United PhosphorusLtd.,-Mumbai 3. Mayvi International Pvt. Ltd., 42.0% min. .in 434RC 4. India Pesticides Ltd., 95% w/w min. .in 437RC 5. Peptech Biosciences Ltd., 95% w/w min. .in 437RC 6. ABCI Agrochem Pvt. Limited, 42.0% Min. in 439RC
269.	Penconazole Technical 95% min.	Syngents Produkte AG, Switzerland	

270.	Pendimethalin Technical 90% min.	BASFCorporation,Hannibal,Mi ssouri, USA	1. ShivalikRasayanLtd.,NewDelhi 2. SirisCropScienceLtd.,NewDelhi 3. Punjab Chemicals & Crop ProtectionLimited,Chandigarh 4. MagmaIndustriesLtd. 5. Heranba Industries Limited,,in277th 6. United Phosphorus Limited,Mumbai. 7. MegmaniIndustriesLtd. 8. Bharat RasayanLtd.,Delhi 9. RallisIndiaLimited 10. GSP Crop Science Pvt. Ltd.Ahmedabad 11. Coromandal International Ltd.90.0% Min. 12. Hindustan Insecticides Ltd. 90.0% Min. 13. Crop Life Science Ltd.,Ankleshwar, 90.0% Min. 14. M/sCoromandalAgricaoPvt. Ltd., 90.0% Min. 15. JaiShreeRasayanUdyogLtd.,New Delhi 90.0% Min. 16. Godavri Farm Chemical Industries Ltd., 90.0% Min. 9 (4) in395thRC. 17. Crystal Crop Protection Ltd., 90.0% Min. 9 (4) in397thRC. 18. Himani Industries Ltd., 90.0% Min. 9 (4) in393rdRC. 19. Agro Life Science Corporation, 90.0% Min. 9 (4) in 435RC. 20. Ichiban Crop Science Limited
271.	Pendimethalin 38.7% CS,	BASF Corporation, Agricultural Products Group, Hannibal Plant, 3150 Highway, JJ, Palmyra, Missouri, USA (296th RC)	
272.	Pencycuron Technical 97.5%min	1. Bayer Crop Science AG, Germany.,(268th RC) change to Bayer AG, Germany(392nd RC.)	
273.	Penflufen Technical 95% min.	BayerCropScienceAG,Germany,	
274.	w/w under TI category	BayerCropScienceltd,Thanein 369th RC) Change to BayerAG, Germany,(392nd RC)	

275.	Penoxsulam Technical 97.0% min, 98% (434RC)	Dow AgroSciences LLC. Dow AgroSciences assets,Midland, Michigan 48667(USA)throughSupplier:Dow AgroSciences LLC, 9330ZionsvilleRoad, Indianapolis, Indiana 46268,USA (368thRC)	1. Crystal Crop Protection Pvt. Ltd., 98% min. (TIM vs TIT) under section9(3)in 378th RC 2. Meghmani Industries Ltd.,98% , In 434 RC. 3. Deccan Fine Chmicals (India) Pvt. Ltd., 98% , In 437 RC. 4. Best Crop Science Pvt. Ltd 5. Coromandel International Limited 6. Insecticides India Limited 7. Agrow Allied Ventures Private Limited 8. Agro Life Science Corporation 9. Bhagiradha Chemicals & Industries Ltd., 10. Bharat Rasayan Ltd 11. Ichiban Crop Science Limited 12. Crimsun Organics Private Limited 13. Shogun Organics Limited 14. Meenakshi Agro Chemicals
276.	1. Penoxsulam 21.7%SC(FI- WRT) 2. Penoxsulam 50%w/w MUP* 3. Penoxsulam 2.67%w/w(2.50% w/v) OD** 4.Penoxsula 1.02% w/w + Cyhalofop-butyl 5.1%w/w OD***	1. Dow AgroSciences LLC, 9330 Zionsville Road,Indianapolis,IN46268,USA. 21.7% SC (340thRC) 2. *DowAgroSciences LLC, 9330Zionsville Road, Indianapolis, IN 46268, USA. 50.0%MUP (394thRC) 3. * *PT Dow AgroScience Indonesia, Ji Sisingamangaraja KM 9.5 Medan, 20148. North Sumatra, Indonesia 2.67 % OD (369thRC) 4. ***PT Dow AgroSciences Indonesia , Ji Sisinganiangaraja KM.9.5 Medan, 20148. North Sumatra, Indonesia, (369thRC).	

277.	Permethrin 92% min.	Mitchell Cotts Chemicals Ltd., UK.	1. BayerVapiPvt.Ltd.,Vapi,Gujarat 2. CoromandelInternationalLtd. 3. RPG Life SciencesLtd.,Mumbai 4. United PhosphorusLtd.,Mumbai. 5. Meghmani Organics Ltd.,Ahmedabad 6. Gharda ChemicalsLtd,Mumbai 7. Hemani IndustriesLtd. Ankleshwar 8. Bharat Rasayan Ltd,NewDelhi 9. HeranbaIndustriesLtd. 10. Tagros Chemicals India Ltd.,Chennai. 11. BestCropScienceLLP,Gajraula, UP 12. CroplifeScienceLtd,Ankleshwar, 92% min. 13. Shogun Organics Ltd.,, in 386thRC 14. Indogulf Crop Science Ltd., in 431 RC 15. Agro Life Science Corporation,92.00%, in 435 RC 16. Dharmaj Crop Guard Limited
278.	HDPE Long Lasting Net incorporated with Permethrin 2% w/w	Sumitomo Chemical Company ltd , Tan Dong Help Ward, Di Andistrict, Binh Duong Province,Vietnam through Supplier sumitomo Chemical Singapore Pteltd, 150, BeachRoad, 19-05 Gateway West,Singapore 189720(334th RC)	
279.	Phenthoate Technical 90% min., 92% min.	1. AgrimontSPA,Italy. Nissan Chemical Industries Ltd.,Kowa, 2. Hitotsubashi Building, Chiyode- Ku,Tokyo, Japan(97%).	1. CoromandelInternationalLtd. 2. SudarshanChemicalIndustriesLtd., Pune
280.	Phosalone Technical 93% min.	Rohan Poluenc Agrochemie,France.	1. RalchemLtd., Hyderabad. 2. Cheminova India Ltd.,Bangalore
281.	Picoxystrobin Tech 93% min, *96% min., 97% w/w min.	1.Dupont Asturias, SL, Valle De Tamon, - Nubledo,Municipios,Pvt. Ltd. In 347th RC) (429th RC)	1. Coromandal International Ltd., 93% min. 9(3), (TIM vs TIT) in 401stRC 2. Crystal Crop Protection Ltd. 9(3) in 426th RC meeting for 96% min. 3. Best Crop Science LLP, 93% w/w min in 431 RC 4. UPL Limited

282.	Picoxystrobin 22.52 SC	Dupont de Numorous (France) S.A.S 82, Ruede,Wittelsheim, BP9,F- 68701,Cedex, France Through supplier: Du pont International Operations Sarl CheminduPavil-lon2,CH-1218,LeGrand- Seconnex, Geneva,Switzerland (347thRC)	
283.	Pinoxaden tech. 95% w/w Min	1. Syngenta Grangemouth Works, Earls Road, Grangemouth,UK(311st RC) 2. ZenecaICI, UK.	1. Insecticides India Ltd. 9(3) approved in 427th RC 2. Best Crop Science Pvt. Ltd.
284.	Pirimiphos-methyl Technical 90% min.	Syngenta Limited, UK.	
285.	Polyoxin D Zinc salt 5% SC (FI-WRT)	1. Kaken Pharmaceutical Co., Ltd 28-8, Honkomagome 2-chome, Bunkyo-ku, Tokyo 113-8650, Japan(427th RC)	
286.	Prallethrin Tech-nical 90% min.	1. SumitomoChemicalCo.Ltd.,15,5, Chome, Kitahama- Higashi- Ku Osaka,-Japan	2. SumitomoChemicalsIndiaPvt. Ltd,Mumbai 3. Shogun OrganicsLimited,-Mumbai 4. ManakshiaLtd,Mumbai. 5. M/sSynergiaSciencePvt.Ltd. 90.0%, in343th. 5. M/sInsecticidesIndialtd,Del-hi9 (4) 6. in333rdRC

287.	Pretilachlor Technical 94% min., 96% min (414), 97% min. 98% Min.	1. Syngenta ProdukteAG,Switzerland 2. Hangzhou Qingfeng Agrochemicals Co. Ltd. Formerlyknown as - (Hangzhou General Pesticide Plant) No 177, Jichang Road, Hangzhou,Chinathrough Supplier: Willowood Ltd., unit 2314, Wellborne, Commercial Center 8, Java Road, North Point,Hongkong (238th RC) 3. M/sShangdongBinnongTechnology Co.Ltd 518,Yongxin Road, Binvei Town, Bigzhou City, Shandongprovince China through supplier same as source (391/392ndRC) 4. Nantong Weilike Chemical Co. Ltd., Yangkou Road, 4th , Yangkou Industrial Park, Rudong Country, Jiangsu Province, China through supplier Willowood (Hangzhou) Co.Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, XiachengDistrict,HangzhouCity, Zhejiang Province, China (414th RC,96%) 5. Capital Industry Construction Technology Co. Ltd., South of Xinyongshen Road, Binbei, Bincheng District, BinzhouCity, Shandong, China through supplier Shanghai Agrotree Chemical Co. Ltd., Room 712, The Barony Wanyuan Hotel, No. 599, Pudong Avenue, Shanghai, China (417th RC) 6. Shandong Binnong technology,Co. Lld.. No. 518, yongxin roaad Binbei, Town city, Shandong provicc, China. (391/392th RC, 98% Min.)	1. Nagarjuna Agrichem Ltd., Hyderabad.9 (3) in220thRC 2. GSP Crop Science (P) Ltd.,Ahmedabad 3. Hyderabad Chemical ProductLimited, Hyderabad 4. SirisCropScienceLimited,New Delhi 5. AtulLimited,Vapi 6. SudarshanChemicalIndustriesLt d, Pune 7. UnitedPhosphorusLtd 8. Chemtura Chemicals IndiaPvt.Ltd 9. CrystalphosphateLimited 10. MeghmaniIndustriesLimited 11. IndofilIndutriesLtd.,Andheri(E), Mumbai 12. RaviOrganicsLtd 13. DeccanFineChemicals(India) Ltd., 14. InsecticidesIndiaLtd 15. Punjab Chemicals and Crop ProtectionLtd.,Mumbai 16. Bharat RasayanLtd.,Delhi HPM Chemicals &FertilizersLtd., N.Delhi 18. BestCropScienceLLP,Gajraula, UP(96%min) 19. SamardhiCrop Chemicals Ltd.96.0 % min. ., 20. AgricoOrganicLtd,96.0%min.9 (4).. 21. BhagiradhaChemicals&Industri es Ltd.,Hyderabad.96.0%min. 22. ExcelPhosphatesLtd.,-Meerut.96.0% min. 9 (4). 23. M/sMahamayaLifeSciencesPvt. Ltd.Delhi(TITvsTIM) 24. Canary Agro Chemicals Pvt. Ltd., 96%w/w min, in 439RC 25. Crop Care Organics LLP 26. MG ORGANICS PRIVATE LIMITED 27. HETBAN SPECHEM LIMITED 28. Universal Agro Chemical Industries. 29. HemaniIndustries Ltd., 30. Agrisol (india) Pvt. Ltd 31. Crimsun Organics Private Limited 32. Ichiban Crop Science Limited 33. Agrow Allied Ventures Private Limited 34. India Pesticides Limited

288.	Profenophos Technical 89% min.	1. SyngentaProdukteAG,Switzerland	1. P.I.Industries,Udaipur. 2. Nagarjuna Agrichem Ltd.,Hyderabad. 3. Syngenta,Mumbai 4. Gharda IndiaChemicals,-Mumbai. 5. Meghmani Organics Ltd.,Ahmedabad 6. Rotam India Ltd.,Vapi,Gujarat 7. SudarshanChemicalIndustriesLt d, Pune 8. CoromandelInternationalLtd. 9. Hyderabad ChemicalProductLtd 10. Spectrum EthersLimited,-Mumbai 11. GSPcropSciencePvtLimite d, Ahmedabad. 12. Punjab Chemicals and Crop Protection PvtLimited 13. Krishi RasayanPvt.Ltd. 14. Heranba IndustriesLtd.,-Mumbai 15. Patel Pesticides India Pvt Ltd,Vadodara 16. Excel Crop CareLtd.,Mumbai. 17. BestCropScienceLLP,Gajraula, UP89.0%.Min 18. CheminovaIndiaLtd.89.0%. Min9 (4) 19. M/s Godvari Farm Chemical Industries Ltd., 9 (4), in 386thRC 20. Hemani Industries Ltd., 89% w/w min in 437 RC 21. Ichiban Crop Science., 89% w/w min in 432 RC 22. Agrow Life Science Corporation, 89.00% w/w min.), in 434RC 23. Agrow Allied Venture Pvt. Ltd., 89.00% w/w min.), in 439RC 24. CROP LIFE SCIENCE LTD.
289.	Prohexadione-Calcium 10% WG (FI-WRT)	IPT (VTA) Pergande, GmBH, Wilfried PergandePlatz1,06369,-WeiBandt- Golzau, Germany(345th RC)	
290.	Propamocarb Hydrochloride Tech.66%w/wmin.	Bayer Crop Science AG, Germany (By M/s BayerCropScienceLtd.,Thanein371st/ 372nd RC)	
291.	Propanil Technical 88% min., 97% w/w min	1. Monsanto Agricultural Products-Co.,USA 2. Makhteshim Agan BeerSheva,Israel. 3. Rohm & HassCo.,USA	UPL Ltd., Mumbai, 97% w/w min., in 387th RC .(TIM vs TIT) Best Crop Science Pvt. Ltd Meghmani Industries Limited Ichiban Crop Science Limited Insecticides India Limited

292.	Propargite Technical 90% w/w min.	1. Chemtura Italy s.r.l. Delle Industrie, 40, Casella Postale 13, 04013, Latina Scalo, Italy (225thRC) 2. QingdaoHansenBiologicScienceCo.Ltd., No. 210, Shenzhen South Road, Laixi, Qingdao, China	1. Indofil Chemical Company Ltd., Andheri(E), Mumbai 9 (3)315thRC 2. HPM Chemicals &FertilizersLtd., N. Delhi 3. BharatRasayanLtd.,NewDel hi 90.0 % Min.. 4. MeghmaniOrganicLtd,90.0 % Min.. 5. IndogulfCropScienceLtd,Ne w Delhi, 90.0 % Min.. 6. M/sBestCropSciencePvt.Ltd ., New Delhi, 90.0 % Min.. 7. M/sAstecLifeScienceLtd.,90. 0%Min. 9 (4). In397thRC.
293.	Propetamphos Technical87.5%min.	1. SyngentaCropProtectionAG.,Switzerland 2. Irvita Plant Protection N.V.,Netherlands Antilles	

294.	Propiconazole Technical 88% min., 98% w/w min., 95% w/w min(437)	1. SyngentaCropProtectionAG.,Monthey, Switzerland 2. Irvite Plant ProtectionNetherlandAntiles 3. Manufactured by Shandong Weifang Rainbow Chemicals Co. Ltd., Binhai Economic Development Area, Weifang, Shandong, China (437th RC)	1. Nagarjuna Agrichem Limited,Mumbai. 2. SpectrumEthersLtd.,Mumbai 3. Sudarshan Chemicals IndustriesLimited,Pune 4. AstecChemicalsPvt.Ltd.,-Mumbai 5. MeghmaniIndustriesLtd. 6. Hyderabad ChemicalProductsLtd. 7. Indofil IndutriesLtd.,Andheri(E) 8. GSP Crop Science Pvt. Ltd.Ahmedabad 9. Astec Chemicals Pvt Limited, 10. MumbaiCrystal PhosphatesLtd,Delhi 11. Jaysynth DyechemLtd,Mumbai 12. AtulLtd.,Valsad 13. Tagros Chemicals India Ltd.,Chennai 14. BestCropScienceLLP,Gajraula, UP,88.0% Min. 15. CropLife-ScienceLtd.88.0%Min. 16. M/sUPLLtd.,Mumbai,88.0% Min. 17. India Pesticides Ltd., 98% min. in395thRC 18. HPM Ltd., 88% min.in 399thRC 19. PUNJAB CHEMICALS AND CROP PROTECTION LIMITED 20. Crimsun Organics Private Limited 21. Shivalik Rasayan Limited 22. Crop Care Organics LLP 23. Ichiban Crop Science Limited
295.	1. Propineb Technical 80% min	1. Bayer CropScience AG, D-51368,	1. UnitedPhosphorusLtd.,Mumbai9
296.	2. PropinebTechnical 85.0 % min	Leverkusen, Germany, By Bayer India Ltd) change to Bayer AG, Germany), (By- Bayer CropScience Ltd., Mumbai, India, 80% w/w min., in 392nd RC.) 2. Nantong Baoye Chemical Co. Ltd., No.78, Chuanzhha Road(W), Nantong, Jiangsu, China (P.R.C) through Supplier: Willowood (Hangzhou) Co. Ltd Room No.2003 Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (359)	(3) in 255th RC 2. Sabero OrganicsGujaratLtd 3. IndofilIndustriesLtd.,80%min.9 (3) in 378th RC cat. TIM vs TIT) 4. M/sBestCropSciencePvt.Ltd., 80%min. , in389thRC 5. M/sIndiaPesticidesLtd.,80%min. , in407thRC. 6. Ichiban Crop Science Ltd., 80%min. , in430thRC. 7. Insecticides India Ltd., 98% w/w min, in 431 RC 8. Godrej Agrovet Limited

297.	Propaquizafop 91% Technical	Agan Chemical ManufacturersLtd , P.O.B. 262, Nothern Industrial Zone Ashdod, Israel Source namechange to ADAMA Agan Ltd., P.O.B. 262, ASHDOD, Israel (By ADAMA India Ltd Hyderabad in	
298.	Propaquizafop 10%EC (FI-WRT)	M/sAganChemicalManufacturersLt d P.O.B. 262, Nothern Industrial Zone Ashdod,Israel Source name change to ADAMA Agan Ltd. Ashdod, Israel Thr	
299.	Propaquizafop 2.5 % +Imazethapyr 3.75 %w/wME	ADAMA Agan Ltd., Northern Industrial Zone, P.O.B. 262, Ashdod 77102, Isreal throughsup-plier M/s. ADAMA Quena N.V.,Pos-CabaiOfficeParkUnit- 13,P.O.B. 403, Curacao.(by ADAMA India Pvt. Ltd., Hyderabad in362ndRC)	
301.	Propaquizafop 5% + Oxyflurofen 12% EC	Adama Agan Ltd., P.O.B. 262, Northern Industrial Zone, ASHDOD, Israel Supplier: Adama Quenna N.V.P.O.B.403, Curacao.(359thRC)	
302.	Pyraclostrobin Tech 95% min, 97% w/w min.	BASF Schwarzheide GmbH, Schip-kauer Strasse 1, 01987, Schwarzheide, Germany (437th RC)	Best Crop Science LLP,NewDelhi 9(3) , 97.0% Min , TIM vs TI in 399th RC
303.	Pyraclostrobin 20% WG (FI- WRT)	BASF Corporation. 14284 Highway 41 North, Sparks, GA 31647, USA (289th RC)	
304.	Pyraclostrobin 100g/L CS(FI)	BASFEspanolaS.L.,PoligonIndustr ialSan Vincente 08755 Castell bisbal ,Spain (367th RC,)	
305.	Pyraclostrobin 133 g/l + Epoxiconazole 50 g/l SE (FI- WRT Epoxiconazole)	BASF Espanola S.L, Ctra. Nacional, 340 Km1156,43006Tarragona, Spain-350thRC)	
306.	1. Prochloraz 24.4% + Tebuconazole 12.1% w/w EW (FI-WRT , Prochloraz Technical)	1. Adama Makhteshim Ltd. (For-mely known as Makhteshim chemical worksLtd. Pobox60,Industrialzonebeer-Sheva8 4100Israel 9(3), in 401ST RC)	
307.	Prochloraz Technical 97%w/ wMin	ADAMA Makhteshim Ltd.(Formerly known as Makhteshim Chemical Works Ltd.), P. Box 60, Industrial Zone, Beer Shewa 84100, Israel. Through Supplier : same as manufacturer ADAMA Makteshim Ltd. Israel.(398th RC).	

308.	1. Pyriproxyfen Technical(97% Min)., 95% min., 98% w/w min.	Sumitomo Chemical Co. Ltd., Japan (431th) 1. Jiangsu Flag Chemical Industry Co. Ltd., Changhjenghe Road, Nanjing Chemical Industrial Park, Luhe District, Nanjing PC: 210047, P.R. China.365th RC) 2. Nantong Gongcheng Fine Chemical Co., Ltd. Add: The Fifth Road, Yangkou Chemical Industrial Zone, Rudong Country Nantong City, Jiangsu Province P. R. Chin Through Supplier: HC Agrochemical Co. Ltd. Room 1508, 885 Ren min Road, Shanghai 200010 P.R. China.97%w/w min. 389TH	1. M/sTagrosChemicalsIndiaLtd.,98%w/wmin.9(3), in386thRC) 2. M/sAgroLifeSciencesCorporatio n, 95% w/w min. in399thRC 3. Bharat Rasayan Ltd., 98.00% w/w min. in 434 Rc 4. Cropnosys India Pvt. Ltd., 98.00% w/w min. in 437 RC 5. Agrow Allied Ventures Pvt. Ltd., 98.00% w/w min. in 439 RC 6. Best Crop Science Pvt. Ltd. 7. Anu Products Limited 8. Ichiban Crop Science Limited 9. CROP LIFE SCIENCE LTD. 10. HETBAN SPECHEM LIMITED 11. India Pesticides Limited 12. Crimsun Organics Private Limited 13. Indogulf Cropsciences Limited 14. Insecticides India Limited 15. Shogun Organics Limited 16. HPM CHEMICALS & FERTILIZERS LIMITED 17. Heranba Industries Limited 18. Meenakshi Agro Chemicals 19. Safe Agrochemicals LLP
309.	1. Pyriproxyfen0.5%G (FI) 2. Pyriproxyfen 10% EW	SumitomoChemicalCompanylimited Japan (437TH RC)	
310.	Propoxur Technical 95% min.	1. Bayer Crop ScienceA.G.Germany. 2. Borregard IttaliaSRL Milano, Italy. 3. Enichem Synthesis, Madona,Italy. 4. Sundet (S) Pte.Ltd.,Singapore	Atul Ltd., Valsad.
311.	1. Pyrazosulfuron ethyl 70% WDG (FI-WRT)	1. Nissan Chemical Industries Ltd., Kowa- Hitotsubashi, Building, 7-1-3- Chome, Konda-Nishiki- Cho,Tokyo,Japan (By Nagarjuna Agrochemicals Ltd. in 351st RC) Change toNissan Chemical Corporation,5-1, Nithonbashi, Chome, Chuo-Ku, Tokyo (1036119), Japan.,), (Endorsement of change of name and address of source of import of Pyrazosulfuron ethyl 70% WDG), ThroughSupplier: M/s.Nissei Corporation,10-51 Nihonbashi- Honcho, 1-Chome, Chou-Ku Tokyo- 1030023, Japan. 408thRC)	

312.	Pyrazosulfuron ethyl Technical 97.00% w/w min. , 98% min	1. LG Life Sciences Limited, LG Gwangwamun Bldg., 92, Sinnmunno 2-ga, Jongno-gu, Seol- 110062, Seoul, (306th) 2. Jiangsu Repont Pesticide Factory Co. Ltd. Yangkou Chemical Cluster Area, Rudong Country, Jiangsu Province China through supplier Willowood (Hang-zhou)Co.Ltd.RoomNo.2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China ((417th RC, 98%)	1. UPL limited ,Mumbai, 9 (3) 97.0 % Min , in 350thRC 2. Meghmani Industries Ltd., 96.0% Min. 3. Bharat Rasayan Ltd., 97.00% Min. 9 (4) in 393rdRC. 4. Ichiban Crop Science Ltd. in 421st RC. 5. Crystal Crop Protection Ltd 6. Bhagiradha Chemicals & Industries Ltd., 7. Shogun Organics Limited
313.	Pyridalyl tech	Sumitomo Chemical Co. Ltd., Tokyo, Japan. (269th RC)	
314.	1. Pyrid-aben20%WP	1. Nissan Chemical Industries Ltd. Kowa Hitotusubashi Building 7-1,3-chome, kanda-nishikicho, chiyoda ku,Tokyo- 1010054 Through Supplier: Nissei Corpora-tion, Japan Nihonbbashi-honcho, 1-chome, chuo-kuTokyo, 1030023 Japan, (393 th RC) Sourcechange toM/sNissanCh emical Corpora-tion, 5-1, Nihonbashi, 2-Chome, Chou-Ku, Tokyo, 1036119, Japan.408th RC,)	
315.	Pyriftalid Technical 98% w/w min	–Synwill Nantong Chemical Co. Ltd No.20, 4th Haibin Road, Rudong Coastal Economic Development Zone Nantong city, Jiangsu Province, P.R- China. 424th RC 98% min.)	
316.	Pyrifluquinazon technical 95% w/w min.(436RC),	Manufactured by Nihon Nohyaku Co. Ltd., 19-8, Kyobashi, 1-chome, Chuo-ku, Tokyo 104-8386, Japan. 95% w/w min. 9(3) TI(436 RC) Syngenta India Ltd, approved in 424th RC 98% min.)	
317.	Pyriproxifen 0.5% Gr.	1.Sumitomo ChemicalCompanyLimited, Japan.	
318.	Pyrithiobac Sodi-um Technical 90% min		1. Goldmuhar Agrochem &FieldLtd.,Vikhroli (Mumbai), For-merly knownas Bahar Agro Chem & feeds Pvt. Ltd 9 (3) in 261st RC 2. Ichiban Crop Science Ltd., 90% in 429 RC 3. Best Crop Science Pvt. Ltd., 90%in 437 RC 4. Bharat Rasayan Ltd

319.	Pymetrozine technical 50.0% WG (FI- WRT), 97% w/w min. 9(3) TI	1. Syngenta Korea Limited, Iksan Plant, Korea with sapplier same as Syngenta India Ltd. In 347th RC) 2. Source: Shijiazhuang Richem Co. Ltd., Add: No. 148, Yuhua Road, Chang An District, Shijiazhuang, Minutes of 430th RC meeting China. supplied by Hebei Bester Commerce & Trade Co. Ltd., No. 6-3-203, No. 66, Dianda Street, Xinhua District, Shijiazhuang, China 430 RC	

320.	Pymetrozine Technical 98% w/w min.		1. GSP Crop ScienceLtd, 98.0% Min 9(3), (TIM vs FI-WRT) in 388thRC 2. Coromandal International-alLtd., 98% min., 9(3), (TIM vs FI-WRT) in401stRC. 3. Bhagiradha Chemicals & Industries Ltd (98% min., 9(3), (TIM vs FI-WRT) 416RC 4. Meghmani Industries Ltd. in 421st RC 5. Crimsun Organics Pvt. Ltd., 98% w/w min, in 429 RC 6. Maheshwari Biochemical Pvt. Ltd.,98.0% min. in 434 Rc 7. P I Industries Ltd., 98.0% min. in 434 Rc 8. Agrow Allied Venture Pvt. Ltd., 98.0% min. in 434 RC 9. Hindustan Pesticides and Chemicals98.0% min. in 435 RC 10. NACL Industries Ltd., 98% w/w min. ,in 439 RC 11. Heranba Industries Ltd., 98% w/w min. ,in 439 RC 12. Dharmaj Crop Guard Limited 13. Safe Agrochemicals LLP 14. Universal Agro Chemical Industries. 15. Shivalik Rasayan Limited 16. HPM CHEMICALS & FERTILIZERS LIMITED 17. MG ORGANICS PRIVATE LIMITED 18. Meenakshi Agro Chemicals 19. Prism Crop Science Pvt. Ltd. 20. Heranba Industries Limited 21. Sahib Pesticides 22. Agrisol (india) Pvt. Ltd 23. Nichino India Private Limited 24. CROP LIFE SCIENCE LTD. 25. Anu Products Limited 26. ADAMA India Pvt. Ltd. 27. Bharat Rasayan Ltd 28. Crystal Crop Protection Ltd 29. Indogulf Cropsciences Limited
321.	Pyroxasulfone 85.0 %w/w WG(-FI-WRT)	Name & add of manufacturer & exporter Kumiai Chemical Industries Co. Ltd., 4-26, Ikenohata1-Chrome,Taitoh- Ku,Tokyo110 8782, Japan (Name and Add. f source of Technical in the Countryoforigin Ihara Chemical Industry Co. Ltd , Shizouka Factory, 1800, Nakanogo fuji, Shizouka, Japan (401stRC)	

322.	Pyroxasulfone Technical 95% w/w min.	1. Name and address of source changes Ihara Chemicals IndustryCo. Ltd.,Shi zouka Factory, 1800, Nakanogo Fiji, Shizouka, Japan to Kumini Chemical Industry Co. Ltd.,4- 26,Ikenohata1-Chrome,Taitoh-Ku, Tokyo 1108782, Japan (418thRC)	
323.	Quinalphos Technical 70% min.	Novartis Crop Protection Inc., USA	1. Cheminova IndiaLtd.,Mumbai. 2. ShawWallace&Co.Ltd.,Chennai. 3. SudarshanChemicalIndustriesLtd., Pune. 4. India PesticideLtd,Lucknow 5. Arlex Chemi (P)Limited,-Mumbai 6. Megmani Organics Ltd.,Ahmedabad 7. CoromandelInternationalLtd. 8. HyderabadChemicalProductsPvt. Ltd. 9. GhardachemicalsLtd. 10. Hikal ChemicalProductsLtd. 11. GujaratInsecticideLtd. 12. SunPesticides(P)Ltd,70%min. 13. M/s Bhagiradha Chemicals and Industries Ltd., 70% min. 9 (4)in 395thRC 14. Best Crop Science Pvt. Ltd. 15. Heranba Industries Limited
324.	Quizalofop ethyl Technical, 98% w/w	Nisan Chemical Industries Ltd, Kowa, Hitotsubashi Building, 7-1, 3-Chome, Kanda-Nishikicho,Chiyoda-Ku, 101- 0054Tokyo, Japan, Through Supplier - Nissei Corporation,10-5, Nihonbashi-Honcho,1- Chome, Chou-Ku Tokyo, 103- 0023Japan. (393th RC)	1. M/sCrystalCropprotechionPvt. Ltd., 9(3)98%w/wmin.in380thRC) (TIMvs FI). 2. Godrej Agrotech Ltd, 9(3) 98% w/w min.in380thRC) (TIMvsFI). 3. M/sAtulLtd.,9(3),98%w/wmin.in 387th RC) (TIMvsFI). 4. Agrow Allied Venture Pvt. Ltd., 98% w/w min, in 434Rc 5. ndogulf Cropsciences Limited 6. Heranba Industries Limited 7. Agro Life Science Corporation 8. Ichiban Crop Science Limited 9. Meghmani Industries Limited 10. Anu Products Limited 11. Coromandel International Limited 12. NACL Industries Limited 13. Best Crop Science Pvt. Ltd.

325.	1. Quizalofop ethyl10%EC 2. Quizalofop ethyl 5%EC*	1. Nisan Chemical Industries Ltd,- Kowa- Hitotsubashi Building, 7-1, 3- Chome, Kanda- Nishiki-cho, Chiyoda- Ku, Tokyo-101-0054. Japan Through Supplier - Nissei Corporation,10-5, Nihonbashi- Honcho,1-Chome,Chou- uTokyo,103- 0023,Japan.(348th RC) Source Change to M/sNisan Chemical Corporation, 5-1, Nihonbashi, 2- Chome,Chou-Ku,Tokyo-(10136119),Japan. 2. * Nissan Chemical Co.,Japan (246thRC)	
326.	Quizalofop-p-tefuryl 4.41%EC (FI-WRT)	Chemtura Europe Ltd, Chemark Kft, Hungary (290th RC)	
327.	Renofluthrin 5% MUP	Shogun Organics Ltd. (439th RC)	
328.	Saflufenacil Technical 94.5% w/w min. Saflufenacil 70% WG	– BASF Corporation, Hannibal Plant, 3150 Highway JJ Palmyra, Missouri 63461 United States of America (423rd RC)	
		BASF Corporation, Manati Plant Route No.2, Km 47.3 Manati, puerto Rico 00674 (423rd RC)	
329.	S-Bioallethrin Technical 95% min.	Evo SA, Paris, France	
330.	Sedaxane technical 96% w/w min Sedaxane 12.61% + Azoxystrobin 3.15% + Thiamethoxam 22.06% FS	1.Syngenta Crop Protection, monthey S.A. Route de LILe au bios, CH-1870, monthey, Switzerland. Syngenta India Ltd.(432th RC) 2.Syngenta Nantong crop protection Co. Ltd.Add No.1 zhongyang road, Nantong economic and technological development area jingsu, P.R.China. (434th RC)	
331.	Sodium para-nitrophenolate 1.8%SL	Asahi Chemical Mfg. Co. Ltd. 500, Takayasu, Ikarugacho, Ikomagun, Nara Pref, Japan Through Supplier: Arysta Life Science Corporation,38th Floor, St. Like's Tower, 8-1 Akashi-Cho, Chou-Ku, Tokyo, 104-6591,Japan,SeirokaGardenNai,P.O .-51(358thRC)	

332.	Spinetoram 11.7% SC, *Spinetoram 81.2% w/w min.	1. Helena Industries Inc. (exclusive-producer of Dow owned Spinetoram 11.7% formulation) 434 Fenn Road, Cordele, Georgia, 31015, USA through Supplier: Dow AgroScience LLC, 9330 Zionsville Road, Indianapolis, IN 46268, USA.(360thRC) 2.*Chem design products inco. (Contract to Dow Agro Siences LLC), to Stanton Street, Marinette, WI 54143, USA(425TH RC) 3.*Supplier: Dow Agro Sciences LLC, 9330 Zionsville road, Indiana Pollis, IN 46268, USA (439 RC, 9(3)-TI)	
333.	Spinosad Technical 85% min.	1. Dow AgroScience,USA 2. DowAgroScience,NewZealand.	1 Biosynthetics, Jalgaon, 9 (3) in 278thRC 2 Agrisol (india) Pvt. Ltd
334.	SpiromesifenTechnical 96.5% min, 96.50% min (437RC)	Bayer Crop Science AG,Germany,(-By Bayer Crop Sciences Ltd in 298th RC Change to Bayer AG, Germany), (392nd RC), (436th RC)	1. Best Crop Science LLP.,96.50% min., 9(3) TIM vs TIin 436 RC
335.	SpirotetramatTechnical 96.0 % Min.	Bayer Crop Science AG, Germany, (By BayerCropScienceslt-d,Thanein360th RC) Change to Bayer AG, Germany), (392ndRC.)	
336.	Streptomycin + Tetracycline		Hindustan Antibiotics Ltd, Pune
337.	Sulfentrazone Technical 91%Min., 95.00% w/w min. *	Jiangsu Lianhe Chemical Technology Co. Limited, Welson Road, Chenjiangang, Xiangshui, Jiangsu 224631 China (362nd RC)	* Tagros Chemicals India Ltd. 95.00% w/w min.TIM,9(3), in 395thRC. Best Crop Science Pvt. Ltd UPL Limited Gharda Chemicals Limited Hemani Crop Care Private Limited Ichiban Crop Science Limited Bharat Rasayan Ltd Heranba Industries Limited Greenkem Organics Private Limited

338.	Sulfosulfuron Technical 98% min., 98.5% min.	Monsanto Company, USA Supplier – Sumitomo ChemicalCompany, Japan (201st RC)	1. UnitedPhosphorusLimitedu/ s9(3)in 227thRC 2. Gharda Chemicals, Mumbai ,Li 3. Hyderabad Chemical ProductsLtd., Hyderabad. 4. Atul Limited,Gujarat 5. Tagros IndiaLtd,Chennai 6. Meghmani Industries Limited,Ahmedabad 7. Crystal PhosphateLtd,Delhi 8. GSPCropSciencePrivateLimite d, Ahmedabad 9. InsecticideIndiaLimited 10. Indofil IndustriesLtd.,Andheri(E) 11. BharatRasayanLtd 12. Sharda Worldwide Exports Pvt Limited 13. Excel Crop CareLtd.,Mumbai 14. Punjab Chemicals and CropProtection Ltd.,Mumbai 15. HeranbaIndustriesLtd. 16. IndofilIndustriesLtd.,Andheri(E), Mumbai 17. HPMChemicals&FertilizersLtd., N. Delhi,98.5 %min. 18. BestCropScienceLLP,Gajraula, UP,98.5 %min. 19. ExcelPhosphatePvt.Ltd.98.5% min. 20. M/s Godavari Farm Chemical 21. Agro Life Science Corporation 22. Ichiban Crop Science Limited
339.	Sulphur 80% min. Sulphur flowable 52% (import)	1. Syngenta ProdukteAG., France. 2. Stoller Enterprise Inc.Texas,USA	1. Artee Graphite PLtd.,Delhi. 2. Excel Crop Care Ltd.,Ltd.Mumbai. 3. Sulphur MillsLtd.,Mumbai. 4. Atul Ltd.,Valsad 5. Meghmani Industries Ltd., Ahmedabad (80%)
340.	Sulphur 80% WG (FI)	BASF Alkliengesellschaft ProductionCrop Protection, 67056, Ludwigshafen,Germany	
341.	1. Tebuconazole 5.4%FS 2. Tebuconazole 50% + Trifloxystrobin 25%WG*	1. Bayer Crop Science LP, 8400, Hawthorn Road,KansasCity,MO64120,USA 2. *Bayer Crop Science AG, Germany, change to Bayer AG, Germany, (changeofnameofsourceofimport), (392ndRC.	

342.	1. Tebuconazole Technical 93% min.97%min, 95%w/w min.	1. Bayer Crop Science LP, 8400, Hawthorn Road, Kansas City,MO 641 20 , USA. 2. Makhteshiim Chemicals Works Ltd. P O Box 60, Industrial Zone Beer Sheva, 84100, Israel through supplier Irvita Plant Protection N.V. , Curacao, Netherlands , Antiilles (341st RC). 3. 3. Adama Irvita N.V. Pos Cabai office park 13, P.O. box 403,Curacao,Israel. 4. Bayer Crop Science AG, Germany, change to Bayer AG,Germany, (392ndRC.) 5. Hangzhau UudragonChemical Co. Ltd., Tangxi Industrial Area, Yuhang District Hangzhou, Zhejianj, China through supplier Chongqing Shining Fine Chemicals Co. Ltd., 28-3 Citic Commerce, No. 5 Yanghe San Cun Jiangbei District Chongqing, China. (358thRC)	1. ExcelCropCareLtd.,Mumbai,U/s9 (3),95.0% Min in339thRC Astec Life Sciences Ltd., Mumbai , 9 (3), 95.0% Min in344thRC 2. Punjab Chemical Crop protection ltd., Chandigarh , 9 (3), 97.5% Min in346thRC 3. IndofilIndustries Ltd.,Mumbai9 (3), 95.0% Min in 349thRC 4. GSPCropSciencePvt.Ltd.(95 % min) 5. Best Crop Science LLP, Gajraula, UP (95%min) 6. Cheminova India Ltd.95.0% Min.. 8. Coromandal International Ltd.,Secandrabad 95.0%Min. 9. InsecticidesIndiaLtd,95.0 % Min. 10. JaiShreeRasayanUdyo g Ltd., Delhi 95.0%Min. 11. HPMChemicals&FertilizersLt d.,Delhi 95.0%Min. 12. BharatRasayanLtd.,NewDelh i, 95.0%Min. 13. ExcelCropCareLtd.,95%w/wmin. 9(3) approved in339thRC 14. M/sNagarjunaagrichemLtd.,95. % Min. in397thRC 15. M/sIndiaPesticidesLtd.,95%w/w min., in399thRC 16. M/sSahibPesticidesLtd.,95%w/ w min. , in 399thRC 17. Bharat Products Pvt. Ltd., 95%w/w min. , in 434thRC 18. Crop Life Science Ltd., 95%w/w min. , in 434thRC 19. R3 Crop Care Pvt. Ltd., 95%w/w min. , in 434thRC 20. Heranba Industries Pvt. Ltd., 95.00% w/w min., 434 RC 21. Agro Life Science Corporation, 95.00% w/w min., 437 RC 22. Sahib Pesticides 23. Agrisol (india) Pvt. Ltd 24. Ichiban Crop Science Limited 25. Gujarat Insecticides Ltd. 26. NACL Industries Limited 27. Anu Products Limited 28. Crystal Crop Protection Ltd 29. Meghmani Industries Limited 30. CROP LIFE SCIENCE LTD. 31. Mega Innovative Crops Private Ltd. 32. Crimsun Organics Private Limited 33. Anupam Rasayan India Ltd 34. Jeevan Chemicals Pvt. Ltd. 35. Meenakshi Agro Chemicals 36. BHUVANESHWARI ORGANICS PRIVATE LIMITED 37. Crop Care Organics LLP 38. Shogun Organics Limited 39. Safe Agrochemicals LLP 40. Agrow Allied Ventures Private Limited 41. Spectrum Ethers Private Limited

343.	Tembotrione Technical 94%min	Bayer Cropscience LP 8400 Hawthorne Rd, Kansas City, MO64120, USA (353rdRC)	1. Insecticide India Ltd. approved in 425th RC 2. Best Crop Science Pvt. Ltd., 94% w/w min. in 439
344.	Temephos Technical 90% min.	American Cynamid Co., USA	1. GhardaChemical,Mumbai 2. Cynamid India,Mumbai 3. HikalLtd 4. Bharat Rasayan Ltd,NewDelhi. 5. United PhosphorusLtd.,-Mumbai 6. CoromandelInternationalLtd. 7. Hernaba Industries Ltd.,-Mumbai, 90% min
345.	1. Tetraconazole3.8%EW (FI-WRT)	Isagro Spa, Centro Uffici San Siro-Fabbricato D- ala3- Via Caldera, 21-20153, Milano, Italy	
346.	Tetraconazole Technical 95% min, 11.6% w/w (12.5% w/v)SL(-FI-WRT)	Agrochemicals Pvt. Ltd. , Mumbaiin 310thRC) 2. Manufacturer/exporter: Via Nettunense km.23400, Aprilia (Lantina)-Italy through supplier Isagro S.p.A, Centro Uffici San Siro-Fabbricato D-ala 3- Via Caldera, 21-20153, Milano. Manufecturer : Isagro S.p.A, Piazzal Elettrochimica, 1,65022 Bussi Sul Tirino (Pe) – Italy Supplier : Isagro Spa, Centro Uffici San Siro-Fabbricato D-ala3- Via Caldera, 21- 20153, Milano-Italy (429th RC, 95% Min.) Manufactured by Hangzhou Udragon chemical co. Ltd., No.172, zhangjiadun road, tanxi, yuhang, Hangzhou, china.(430 RC,)	
347.	Tetraniliprole technical 89% w/w min. Tetraniliprole 40.34% FS	1. Bayer Crop Science AG, Germany USA (427thRC) 2. Bayer Crop Science Ltd.	
348.	Thiacloprid Technical 97% min.	1. Bayer Crop Science AG, Germany., (252ndRC) Change to Bayer AG, Germany , in 392ndRC.)	1. CheminovaIndiaPvt.Ltd.,9(3) in272ndRC 2. Crystal Crop Protection Ltd., TIM, in434th RC, 97%. 3. Bharat Rasayan Ltd., 98.00% w/w min. .in 437RC 4. Hikal Limited 5. Best Crop Science Pvt. Ltd. 6. HPM CHEMICALS & FERTILIZERS LIMITED 7. Ichiban Crop Science Limited 8. PUNJAB CHEMICALS AND CROP PROTECTION LIMITED 9. Crystal Crop Protection Ltd 10. Agrisol (india) Pvt. Ltd

349.	Thiodicarb Technical 94% min, 95% min.	1. Bayer Crop Science LP, 2TW, North Carolina, USA (Name of previous source is Aventis Crop-Science USA Inc, North Carolina, USA, was changedin 230th RC) 2. Manufectured by Weifang haibang chemical industry Co. Ltd., Add North xiwang road, dingtao industry park, heze, Shandong, china.(431st RC)	1. HyderbadChemicalProduct-sLtd ., 9 (3) in291stRC 2. Rotam India Ltd.,Vapi,Gujarat 3. Insecticides IndiaLtd,Delhi 4. Meghmani Organics Ltd,Ahmedabad. 5. HPM Chemicals &Fertiliz-ersLtd., N. Delhi 6. Bharat Rasayan Ltd.,NewD-elhi, 94% min, 7. M/sBestCropScienceLLP.,94% min, in 407thRC
350.	1.Thiamethoxam Technical 97%min. 1. Thiamethoxam 0.01% w/w Gel Bait (House-hold Pesticides)* 2. Thiamethoxam Technical 98% w/w min.	1. DSM Chenve Linz St. Peter Strusse25,A- 4021 Linz, Austria.(215th RC TI) 2. Jiangsu Luye Agrochemicals Co. Ltd., Funing Chemical Industriat Part, Yancheng, , Jiangsu,P.R.,China- 224 403. (411th RC) 3. Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No.118, Eing-chun Roado Xiacherig Dis-trict,Hangzhou City,ZhejiangProvince, C hina (411th RC) supplier 4. Hebei Bestar Commercg and 'I'rade Co. Ltd., 6-3-203 No. 66 Dianda street Xinhu District Shijiazhunag, China. (409th RC).	1. Syngenta,Mumbai,u/s9(3) (TIM) 97.0% min in 218th RC (CRissued on25.02.2002) 2. Rallis India Ltd , Bangalore , 9(3) 3. India Pesticides Limited 4. Agrisol (india) Pvt. Ltd 5. Spectrum Ethers Private Limited 6. Agro Life Science Corpo-ration 7. Ichiban Crop Science Limited 8. NACL Industries Limited 9. Heranba Industries Limited 10. Crimsun Organics Private Limited 11. Rotam Crop Protection Pvt. Ltd. 12. Anu Products Limited 13. Bharat Products Limited 14. MAHAMAYA LIFE-SCIENCES PVT. LTD. 15. Fengel crop sciences 16. Meenakshi Agro Chemicals 17. Shogun Organics Limited 18. Crop Care Organics LLP 19. Ravi Organics Limited 20. Dharmaj Crop Guard Limited 21. HemaniIndustries Ltd., 22. MG ORGANICS PRIVATE LIMITED 23. Safe Agrochemicals LLP 24. Greenkem Organics Private Limited

		5. *Fumakilla Malaysia Berhad, Plot No. 256, Tingkat Perusahaan 5, Kawasan Perindustrian Perai 2, 13600 Perai, Pulau Pinang, Malaysia upto 31st March, 2019. supplier and source of manufacturer isthe same in this case. (365thRC) 6. Jiangsu Huifeng Bio Agriculture Co. Ltd., weier Road, South Area of ocean Developm ent zone, Dafeng, Jiangsu 224145 China through supplier Nanjing Bodao Logistics Co. Ltd.,Address: B#35, No. 420, Wangxin Road, Luhe District, Nanjing, Jiangsu, P.R. China (426th RC, 98%)	In 245thRC 3. GSP Crop Science Ltd., Ahmedabad 4. Parijat Agencies,NewDelhi 5. Hyderabad Chemical ProductsLimited,Hyderabad 6. Insecticides IndiaLimited,Delhi 7. BharatRasayanLimited,NewDelhi 8. TagrosChemicalsIndiaLimited, Chennai 9. P.I. IndustriesLimited,Gurgaon 10. AtulLimited,Atul 11. Punjab Chemicals & CropProtectionLtd.,Mumbai 12. Sharda World wide Exports Pvt. Ltd. 13. CrystalPhosphatesLtd.,NewDelhi 14. MeghmaniIndustriesLtd. 15. Krishi RasayanPvt.Ltd. 16. United Phosphorous Limited,Mumbai 17. Bhagiradha Chemicals&IndustriesLtd.,Ahmedabad 18. HPM Chemicals &FertilizersLtd., N. Delhi 19. BestCropScienceLLP,Gajraula, UP 20. ExcelPhosphatePvt.Ltd.97.0 % min. 21. SamardhiCropChemicals97.0 % min. 22. Indofil Industries Ltd. Mumbai, 97.0 % min. 23. JubiliantlifeScienceLtd. UP.97.0% w/w min . 24. Oriyo Organics Pvt.Ltd., Yamunanagar 97.0 %min. 25. AimcoPesticidesLtd.Mumbai, 97.0 % min. 26. SudarshanCrop(I),Jaipur,,97.0 % min. 27. AgricoOrganicsLtd.NewDelhi, 97.0 % min. 28. NutechLifeSciencePvt.Ltd.,Pune,97.0 % min. 29. M/sMegaInnovativeCropPvt. Ltd.,97.0%,,in386thRC. 30. M/sIndiaPesticidesLtd.,97.0% min., in399thRC 31. M/sShreejiPesticidesPvt. Ltd.,97.0 % min. , in 401st RC 32. Meenakshi Agro Chemicals, 97.0 % min. , in 437 RC

351.	Thiocyclam Hydrogen Oxalate Technical 86% min., *87.5% min.	1.Suzhou Link Hi-Tech Co., Ltd. No.1, Link road Dongpiao TownXiang-Cheng District ,Suzhou, Jaingsu, China adesignated manufacturer of .Nippon Kayaku Co. Ltd., Tokyo Fujimi Bidg, 11- 2, Fujimi 1 Come, Chiyodaku, Tokyo, Japan Through Supplier: Arysta life Science Corpooration, 38-39F St. Luke's Tower, 8- 1, Akashi-Cho, Chou-Ku, Tokyo-1046591, Japan (357thRC)	1. P I Industries Ltd. 9(3) in 426th RC meeting for 87.5% min.* 2. Insecticides India Ltd. (416th RC) 3. Best Crop Science Pvt. Ltd. 4. GSP Crop Science Pvt. Ltd.
352.	Thifluzamide Technical 96% min		1.NagarjunaAgrichemLtd.,Hyderabadu/s 9(3)96.0%w/wminin266thRC 3 Agrisol (India) Pvt. Ltd., 96% w/w 4 min in 431 Rc 5 R3 Crop Care Pvt. Ltd.,96.00%, in 434RC 6 Bharat Rasayan Ltd 7 Sahib Pesticides 8 Ichiban Crop Science Limited 9 Cropnosys India Pvt. Ltd. 10 Bhagiradha Chemicals & Industries Ltd., 11 PUNJAB CHEMICALS AND CROP PROTECTION LIMITED 12 Gharda Chemicals Limited 13 CROP LIFE SCIENCE LTD. 14 HETBAN SPECHEM LIMITED 15 Crimsun Organics Private Limited 16 Heranba Industries Limited
353.	Thiodicarb Technical 94% Min.		1. Saraswati Agro Chemicals (India) Private Limited 2. Best Crop Science Pvt. Ltd.

354.	Thiophenate-methyl Technical 94% min., 95% min.	1. Nippon Soda Co.Ltd.,Japan. Through Supplier; Summit Agro International Ltd., Chou Ku Harumi Tokyo, Japan. 2. Sinoway International JiangsuLtd.,147 PinglingRoadEast,Liyang,Jiangsu, China. Supplier: Jiangsu Jiatai Chemical Co. Ltd., 17, Beijing Road (West),Nanjing,China 3. – HailiGuixi Chemical Pesticide Co. Ltd. Baili Industry Area, Guixi Jiangxi, China through supplier Willowood (Hangzhou) Co.Ltd. Room No. 2003.,Golden Plaza, NO 118, Quingchun Road, Xiacheng District, Hangzhou City, ZhejiangProvince,China.(417th RC)	1. Motilal Pesticides,Mathura(UP) 2. Meghmani Industries Ltd,Ahmedabad 3. Insecticide IndiaLtd,Delhi 4. SudarshanChemicalIndustriesLt d.,Pune 5. RallisIndiaLtd. 6. M/sBestCropScienceLLP,94%w/wmin. (TIM) in395thRC 7. Indofil Industries Ltd., 94% w/wmin. (TIM) in 397th RC &407thRC. 8. M/sR3CropCarePvt.Ltd.,94%min.,, in407thRC 9. Indogulf Crop Sciences Ltd., 94% w/w min in 431 RC 10. Bharat Rasayan Ltd 11. Agrow Allied Ventures Private Limited 12. NACL Industries Limited 13. Mega Innovative Crops Private Ltd 14. CROP LIFE SCIENCE LTD. 15. Crystal Crop Protection Ltd 16. Heranba Industries Limited
355.	Thiophanate-Mehtyl 450 g/l + Pyraclostrobin 50 g/l FS(FI)	BASF Agri-Production SAS Z.I. Lyon Nord, Rue Jacquard- 69727, Genay, France. (343rd RC)	
356.	Thiram Technical 95%min.&98%min.	1. Taminco bvba 9000 2. BayerAG,Germany. 3. W.A. ClearyCorpn.,USA. 4. ZenekaLtd.,UK. 5. Veb ChemiekoplantButterfield,GDR	1. MerchemLtd.,Cochin 2. Swarup Chemicals P. Ltd.,Lucknow 3. SudamaChemtechPvtLimite d, Vadodara 4. GSP Crop SciencePvt.Ltd
357.			5. Bharat Rasayan Ltd.(95%) 6. M/s Chemet Chemicals Ltd.,Ahmedabad, (95%) 7. UPL Ltd., Mumbai,95%min 8. M/sMeenakshiAgroChemicals, 95% min. 9 (4), in395thRC 9. M/sBestCropScienceLLP,95% min 9 (4), in405thRC. 10. India Pesticides Ltd., 95% min 9 (4), in434thRC. 11. India Pesticides Limited 12. Best Crop Science Pvt. Ltd

358.	Tolfenpyrad 98.5% Tech Min	1. Nihon Nohyaku Co. Ltd., 19-8, Kyobashi 1- Chome, Chou-Ku, Tokyo 1048386, Japan through Supplier : Sojiz Corporation, 1-1, Uchisaiwaicho 2-Chome, Chiyoda-Ku, Tokyo- 100-8691, Japan. (Endorsement of Supplier (404th RC.)	Coromandel International Ltd., 98.50% w/w min. (TIM vs TIT) under section 9(3). In 379th /380th RC Nichino Chemical India Pvt. Ltd., in 431 RC GSP Crop Science Pvt. Ltd., in 431 Rc Best Crop Science Pvt. Ltd. Bharat Rasayan Ltd Nichino India Private Limited GSP Crop Science Pvt. Ltd. Ichiban Crop Science Limited Agrisol (india) Pvt. Ltd
359.	Topramizone 336 g/l SC	1. IPT (VTA) Pergande, GmbH, Wilfried Pergande Platz 106369,WeiBandt-Golzau, Germany through Supplier: BASF SE, Germany (357th RC)	
360.	Topramezone Technical 95.8% w/w min.	1. Lonza AG Muenchensteinerstrasse 384002 Basel, Switzerland (423rd RC, 95.8%)	1. BASF India Ltd. 9(3) approved in 427th RC
361.	Transfluthrin Technical 94% min.	1. Bayer AG, Germany formarly known as Bayer Crop science AG., Germany,	2. Bilag Industries Pvt. Ltd., Vapi, Gujarat, in 250th RC 3. Synergia Science Pvt. Ltd.90.0%, in 344thRC 4. Solex Chemicals Private Limited 5. CROP LIFE SCIENCE LTD 6. Heranba Industries Limited
362.	Triacontanol	Formulation manufactured in-situ	
363.	Triadimefon Technical 90% min.	Bayer AG, Germany formerly known as Bayer Crop science AG., Germany,	
364.	Triafamone 20% w/w + Ethoxysulfuron 10% WG %w/w SC(FI-WRT)	1. Bayer AG, Germany formerly known as Bayer Crop Science, AG, Germany through Supplier: Bayer, Vietnam Ltd., Vietnam	
365.	Triallate Technical 90% min.	Monsanto Chemicals Co. Ltd.,Belgium.	
366.	Triasulfuron Technical 94 % Min.	Syngenta Crop Protection AG CH-4002, Basle, Monthey Switzerland. (342nd RC)	

367.	Tricyclazole Technical 95% w/w min., 98% min,	1. Elanco Ihasa, K.K.,Shizuoka-ken,-Japan 2. DongYang Elamcoco. Ltd.,Seoul,Korea. 3. Hangzhou Southern Suburb Chemical Co. Ltd., Puyan, Binjiang District, Haugzhou, Zhejiang China Through supplier: King Tech Corporation (Room 14 F/M), International Trade commercial building, No. 3005,Nanhu Road, Shenzhen, 518005, PR China (98% min) (348th RC) 4. Hangzhou hexin chemicals co. ltd., Wuli village, Nanyang street, Xiaoshan District, Hangzhou city, Zhejiang province, P.R., China supplied by Willowood (Hangzhou co. ltd. room no. 2003, golden plaza, No.118, Quingchun road, xiacheng district, Hangzhou city, Zhejiang province, P.R., China)(425 RC, 95%)	1. Indofil Indutries Ltd., 2. Nagarjuna Agrichem, Mumbai. 3. Rallis India Ltd. 4. Crystal Phosphates Ltd., Delhi. 5. Sudarshan Chemical Industries Ltd, Pune95% 6. Gujarat Superphosphate Industries (P) Limited, Ahmedabad 7. Heranba Industries limited 8. Crop Life Science Ltd, Ankleshwar. 9. Hyderabad Chemical Products Pvt.Ltd. 10. Atul Ltd., Valsad. 11. Punjab Chemicals and Crop Protection Ltd., Mumbai, 95%min. in389thRC. 12. Meghmani Industries Ltd.Ahmedabad(98%) 13. Tagros Chemicals India Ltd., Chennai98% 14. Best Crop Science LLP, Gajraula, UP, 98% min, 15. Hindustan Insecticides Ltd. 98% min, 16. Oriyo Organics Pvt. Ltd., Yamunanagar, 98% min, 17. Bhuneshwari Organics Pvt. Ltd., 98% min, 18. Hindustan Insecticides Ltd. 98% min, 19. Agrow Allied VenturePvt. Ltd., 98% w/w min., , in 392ndRC. 20. M/sShreejiPesticidesPvt.Ltd ., 95%w/wmin,in393rdRC 21. M/s Godavari Farm Chemical 22. Industries Ltd., 98% min., 9 (4) in395thRC 23. IndiaPesticides Ltd.,98%w/w min. 9 (4) in 397thRC 24. Agrisol (india) Pvt. Ltd 25. Bharat Products Limited 26. Ichiban Crop Science Limited 27. India Pesticides Limited
368.	Trifloxystrobin Technical 96%w/wmin.	1. Bayer CropScience AG at Muttenz,Switzerland,Through Supplier- Same. (388th RC)	
369	Triflumezopyrim-Technical94 % w/w Min.,	---	E.I. Dupont India Pvt. Ltd., 94 % w/w Min., in 387th RC

370.	Triflumizole 42.14% w/w SC	Arysta Life Science North America LLC, Cary, North Carolina 27513, USA (425th RC meeting)	
371.	Trifluralin Technical 85% min. 95% min	1. DowElanco,USA 2. Agan Chemical Manufacturer Ltd., Northern Industrial Zone, P.O. Box 262, Ashdod77102,Israel 3. Eli Lilly & Co., USA.	2. De-nocil Crop Protection Ltd.,Mumbai 3. Sudarshan Chemicals Industries Ltd.,(95%)
372.	Thifluzamide Technical 96%min		Nagarjuna Agrichem Ltd.,61, Nagarjuna Hills,Punjagutta Hyderabad-500083(AP)
373.	Validamycin Technical 64% min.	1 SumitomoChemicalTakedaAgroCo.Ltd., Japan (through - Arysta Life Science Corporation,Japan) 2 Sumitomo Chemical Co. Ltd., Singapore and Supplier: Sumitomo Chemical Singapore Pte. Ltd., Singapore 3 Sumitomo Chemical Co. Ltd., Tokyo, Japan. Supplier-Summit Agro International Co. Ltd.,Tokyo,Japan 4 Zhejiang Tonglu Huifeng Biochemical Co. Ltd., Zhejiang, China through Willowood Ltd. Hong Kong (284th RC)	
374.	Valifenalate technical 98.00% min(436RC)		1. Deccan Fine Chemicals (India) Pvt. Ltd 98.00% min, 9(3) TIM in 436 RC.
375.	Zinc Phosphide Technical 80% min.		1. Agrosynth Chemicals Ltd.,Bangalore. 2. ExcelCropCareLtd.Ltd.,-Mumbai. 3. SandhyaOrganicChemicalsLtd., Mumbai. 4. United PhosphorusLtd.,-Mumbai
376.	Zineb Technical 80% min.	1. Dow AgroScience, Italy. 2. FMCCorporation, USA. 3. Montidison SPA, Italy.	1. MerchemLtd.,Cochin 2. Indofil IndustriesLtdMumbai 87.0 % Min 9 (3) in 388th RC 3. Best Crop Science Pvt. Ltd.
377.	Ziram Technical 95% min.		1. MerchemLtd.,Cochin. 2. India Pesticide Ltd.,Lucknow 3. Syngenta IndiaLtd.,Pune 4. SudamaChem-tech Pvt. Ltd., 95% w/w min. ,in 439RC 5. Best Crop Science Pvt. Ltd 6. Sudama Chem-Tech Pvt. Ltd.

* To be informed. – Information will be updated when department receives latest data on these molecules.

SOURCE OF IMPORT AND LIST OF INDIGENOUS MANUFACTURERS OF INSECTICIDES:

As on 01.11.2022

Sl. No.	Products Name	Name	Source	RC Approved No.	Validity
	Pyraclostrobin 3.5% + Thiram 15% + Clothianidin 22.5%	GSP Crop Science Pvt. Ltd.,		442th	
	Sulfoxaflor 21.8% SC	Dow Agro Science India Pvt. Ltd.,		442th	
	Sulfoxaflor 11.4% SC	Dow Agro Science India Pvt. Ltd.,		442th	

List of various approved pesticides for control of Desert Locust

A. Pesticides approved used for control of Desert Locust in Scheduled Desert Area only

S.No.	Chemical	Dosage	
		a.i.(gms)/ha	Formulations (gm/ml)/ha
1	Malathion 96% ulv	925	1000
2	Malathion 5%DP	925	20000
3	Fenvalrate 0.4%DP	80-100	20000-25000
4	Quinalphos 1.5%DP	375	25000

B. Pesticides approved used for control of Desert Locust on crops, Acacia& other trees.

S.No.	Name of pesticides	**a.i.(gms)/ha**	**Formulations (gm/ml)/ha**
1	Chloropyriphos 20%EC	240	1200
2	Chloropyriphos 50%EC	240	500
3	Deltamethrin 2.8%EC	12.5	500
4	Deltamethrin 1.25% ulv	12.5	1000
5	Diflubenzuron 25%WP	60*	240
6	Fipronil 5%SC	6.25	125
7	Fipronil 2.92%EC	6.25	220
8	Lamdacyhalothrin5%EC	20	400
9	Lamdacyhalothrin10%WP	20	200
10	Malathion 50% EC	925	1850
11	Malathion 25% WP	925	3700

*Only for hoppers control

LIST OF PESTICIDES WHICH ARE BANNED, REFUSED REGISTRATION AND RESTRICTED IN USE:

I. PESTICIDES / FORMULATIONS BANNED IN INDIA

A.	**Pesticides Banned for manufacture, import and use .**	
	1.	Alachlor (Vide S.O. 3951 (E), dated 08.08.2018)
	2.	Aldicarb (vide S.O. 682 (E) dated 17th July 2001)
	3.	Aldrin
	4.	Benzene Hexachloride
	5.	Benomyl (vide S.O 3951(E) dated 8th August, 2018)
	6.	Calcium Cyanide
	7.	Carbaryl (vide S.O 3951(E) dated 8th August, 2018)
	8.	Chlorbenzilate (vide S.O. 682 (E) dated 17th July 2001)
	9.	Chlordane
	10.	Chlorofenvinphos
	11.	Copper Acetoarsenite
	12.	Diazinon (vide S.O 3951(E) dated 8th August, 2018)
	13.	Dibromochloropropane (DBCP) (vide S.O. 569 (E) dated 25th July 1989)
	14.	Dichlorovos (Vide S.O. 3951 (E), dated 08.08.2018)
	15.	Dieldrin (vide S.O. 682 (E) dated 17th July 2001)
	16.	Endosulfron (vide ad-Interim order of the Supreme Court of India in the Writ Petition (Civil) No. 213 of 2011 dated 13th May, 2011 and finally disposed of dated 10th January, 2017)
	17.	Endrin
	18.	Ethyl Mercury Chloride
	19.	Ethyl Parathion
	20.	Ethylene Dibromide (EDB) (vide S.O. 682 (E) dated 17th July 2001)
	21.	Fenarimol (vide S.O 3951(E) dated 8th August, 2018)
	22.	Fenthion (vide S.O 3951(E) dated 8th August, 2018)
	23.	Heptachlor
	24.	Lindane (Gamma-HCH)
	25.	Linuron (vide S.O 3951(E) dated 8th August, 2018)
	26.	Maleic Hydrazide (vide S.O. 682 (E) dated 17th July 2001)
	27.	Menazon
	28.	Methoxy Ethyl Mercury Chloride (vide S.O 3951(E) dated 8th August, 2018)
	29.	Methyl Parathion (vide S.O 3951(E) dated 8th August, 2018)
	30.	Metoxuron
	31.	Nitrofen

	32.	Paraquat Dimethyl Sulphate
	33.	Pentachloro Nitrobenzene (PCNB) (vide S.O. 569 (E) dated 25th July 1989)
	34.	Pentachlorophenol
	35.	Phenyl Mercury Acetate
	36.	Phorate (Vide S.O. 3951 (E), dated 08.08.2018)
	37	Phosphamidon (Vide S.O. 3951 (E), dated 08.08.2018)
	38.	Sodium Cyanide (banned for Insecticidal purpose only vide S.O 3951(E) dated 8th August, 2018)*
	39.	Sodium Methane Arsonate
	40.	Tetradifon
	41.	Thiometon (vide S.O 3951(E) dated 8th August, 2018)
	42.	Toxaphene(Camphechlor) (vide S.O. 569 (E) dated 25th July 1989)
	43.	Triazophos (Vide S.O. 3951 (E), dated 08.08.2018)
	44.	Tridemorph (vide S.O 3951(E) dated 8th August, 2018)
	45.	Trichloro acetic acid (TCA) (vide S.O. 682 (E) dated 17th July 2001)
	46.	Trichlorfon (Vide S.O. 3951 (E), dated 08.08.2018)
B.	**Pesticide formulations banned for import, manufacture and use**	
	1.	Carbofuron 50% SP (vide S.O. 678 (E) dated 17th July 2001)
	2.	Methomyl 12.5% L
	3.	Methomyl 24% formulation
	4.	Phosphamidon 85% SL
C.	**Pesticide / Pesticide formulations banned for use but continued to manufacture for export**	
	1.	Captafol 80% Powder (vide S.O. 679 (E) dated 17th July 2001)
	2.	Dichlorvos (vide S.O. 1196 (E) dated 20th March 2020)
	3.	Nicotin Sulfate (vide S.O. 325 (E) dated 11th May 1992)
	4.	Phorate (vide S.O. 1196 (E) dated 20th March 2020)
	5.	Triazophos (vide S.O. 1196 (E) dated 20th March 2020)
D.	**Pesticides Withdrawn (Withdrawal may become inoperative as soon as required complete data as per the guidelines is generated and submitted by the Pesticides Industry to the Government and accepted by the Registration Committee. (S.O 915(E) dated 15th Jun,2006)**	
	1.	Dalapon
	2.	Ferbam
	3.	Formothion
	4.	Nickel Chloride
	5.	Paradichlorobenzene (PDCB)
	6.	Simazine
	7.	Sirmate (S.O. 2485 (E) dated 24th September 2014)
	8.	Warfarin (vide S.O. 915 (E) dated 15th June 2006)

* Regulation to be continued in the extant manner for non-insecticidal uses.

II. PESTICIDES REFUSED REGISTRATION

S. No.	Name of Pesticides
1.	2,4, 5-T
2.	Ammonium Sulphamate
3.	Azinphos Ethyl
4.	Azinphos Methyl
5.	Binapacryl
6.	Calcium Arsenate
7.	Carbophenothion
8.	Chinomethionate (Morestan)
9.	Dicrotophos
10.	EPN
11.	Fentin Acetate
12.	Fentin Hydroxide
13.	Lead Arsenate
14.	Leptophos (Phosvel)
15.	Mephosfolan
16.	Mevinphos (Phosdrin)
17.	Thiodemeton / Disulfoton
18.	Vamidothion

III. PESTICIDES RESTRICTED FOR USE IN THE COUNTRY

S. No.	Name of Pesticides	Details of Restrictions
1.	Aluminium Phosphide	The Pest Control Operations with Aluminium Phosphide may be undertaken only by Govt./Govt. undertakings / Govt. Organizations / pest control operators under the strict supervision of Govt. Experts or experts whose expertise is approved by the Plant Protection Advisor to Govt. of India except [1]Aluminium Phosphide 15 % 12 g tablet and [2]Aluminum Phosphide 6 % tablet. [RC decision circular F No. 14-11(2)-CIR-II (Vol. II) dated 21-09-1984 and G.S.R. 371(E) dated 20th may 1999]. [1]Decision of 282nd RC held on 02-11-2007 and, [2]Decision of 326th RC held on 15-02-2012. The production, marketing and use of Aluminium Phosphide tube packs with a capacity of 10 and 20 tablets of 3 g each of Aluminium Phosphide are banned completely. (S.O.677 (E) dated 17thJuly, 2001)
2.	Captafol	The use of Captafol as foliar spray is banned. Captafol shall be used only as seed dresser. (S.O.569 (E) dated 25thJuly, 1989) The manufacture of Captafol 80 % powder for dry seed treatment (DS) is banned for use in the country except manufacture for export. (S.O.679 (E) dated 17thJuly, 2001)
3.	Cypermethrin	Cypermethrin 3 % Smoke Generator is to be used only through Pest Control Operators and not allowed to be used by the General Public. [Order of Hon,ble High Court of Delhi in WP(C) 10052 of 2009 dated 1407- 2009 and LPA-429/2009 dated 08-09-2009]
4.	Dazomet	The use of Dazomet is not permitted on Tea. (S.O.3006 (E) dated 31st Dec, 2008)
5.	Dichloro Diphenyl Trichloroethane (DDT)	The use of DDT for the domestic Public Health Programme is restricted up to 10,000 Metric Tonnes per annum, except in case of any major outbreak of epidemic. M/s Hindustan Insecticides Ltd., the sole manufacturer of DDT in the country may manufacture DDT for export to other countries for use in vector control for public health purpose. The export of DDT to Parties and State non- Parties shall be strictly in accordance with the paragraph 2(b) article 3 of the Stockholm Convention on Persistent Organic Pollutants (POPs). (S.O.295 (E) dated 8th March, 2006)

		Use of DDT in Agriculture is withdrawn. In very special circumstances warranting the use of DDT for plant protection work, the state or central Govt. may purchase it directly from M/s Hindustan Insecticides Ltd. to be used under expert Governmental supervision. (S.O.378 (E) dated 26thMay, 1989)
6.	Fenitrothion	The use of Fenitrothion is banned in Agriculture except for locust control in scheduled desert area and public health. (S.O.706 (E) dated 03rdMay, 2007)
7.	Methyl Bromide	Methyl Bromide may be used only by Govt./Govt. undertakings/Govt. Organizations / Pest control operators under the strict supervision of Govt. Experts or Experts whose expertise is approved by the Plant Protection Advisor. [G.S.R.371 (E) dated 20thMay, 1999 and earlier RC decision]
8.	Monocrotophos	Monocrotophos is banned for use on vegetables. (S.O.1482 (E) dated 10thOct, 2005)
9.	Trifluralin	(i) The Registration, import, manufacture, formulation, transport, sell and its all uses except use in wheat shall be prohibited and completely banned from 8th August, 2018. (ii) (ii) A cautionary statement has to be incorporated in the label and leaflet that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. (vide S.O 3951(E) dated 8th August, 2018)

THE SCHEDULE

[See Sec. 3(e)]

LIST OF INSECTICIDES

**** Added originally with the Insecticide Act, 1968**

Sl. No.	Common Name	Chemical/Scientific name
1.	Acrylonitrile	acrylonitrile
2.	Aldrin	1R, 4S, 4aS, 5S, 8R, 8aR)-(1,2,3,4,10, 10-hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro-1, 4, 5, 8-dimethanonapthalene
3.	Allethrin (Allethrin[(1R)-isomer]	(RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl(1R, 3R, 1R, 3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate
4.	Aluminium Phosphide	aluminium phosphide
5.	Amiton	S-2-diethylaminoethyl O,O-diethyl phosphorothioate
6.	Antu	1-(1-naphthyl)-2-thiourea
7.	Aramite	2-(4-tert-butylphenoxy)-1-methylethyl 2-chloroethyl sulfite
8.	Barium Carbonate	barium carbonate
9.	Barium Fluoro Silicate	barium fluoro silicate
10.	BHC	(benzene hexachloride) (1,2,3,4,5,6-hexachlorocyclohexane (mixed isomers)
11.	Bis-dimethylamino Flourophosphine Oxide	bis-dimethylamino flourophosophine oxide
12.	Calcium Arsenate	calcium arsenate

13.	Calicum Cyanide	calcium cyanide
14.	Captan	N-(trichloromethylthio) cyclohex-4-ene,1,2-dicarboximide
15.	Carbaryl	1-napthylmethyl carbamate
16.	Carbon disulphide	carbon disulphide
17.	Carbon tetrachloride	carbon tetrachloride
18.	Chlorbenside	4-chlorobenzyl-4-chlorophenyl sulfide
19.	Simazine (Chlorobis (ethylamino)triazine)	6-chlorp-N2 N4 -diethyl-1,3,5-triazine-2,4-diamine
20.	Chlordane	1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene
21.	Chlorobenzilate	ethyl 4,4-dichlorobenzilate
22.	Chlorothion	O-3-chloro-4-nitrophenyl O,O-dimethyl phosphorothioate
23.	Chlorpropham (chloro IPC)	isopropyl 3-chlorocarbanilate
24.	Chloropicrin	trichloronitro methane
25.	chlorfenson	4-chlorophenyl-4-chlorobenzenesulfonate
26.	Carbophenothion (Trithion)	S-4-chlorophenylthiomethyl O,O-diethyl phosphorodithioate
27.	Chlorpropham (IPC)	isopropyl 3-chlorocarbanilate
28.	Monuron (CMU)	3-(4-chlorophenyl)-1,1-dimethyl urea
29.	Copper arsenate	copper arsenate
30.	Copper cyanide	copper cyanide
31.	Copper napthanate	copper napthanate
32.	Copper sulphate	copper sulphate
33.	Coumachlor	3-[1-(4-chlorophenyl)-3-oxobutyl]-4-hydroxycoumarin
34.	Copper oxychloride	copper oxychloride
35.	Cuprous oxide	copper (I) oxide
36.	Dalapon	2, 2, dichloropropionic acid
37.	D-D mixture	1,2-dichloropropane with 1,3-dichloropropene
38.	TDE (DDD)	1,1-dichlroro-2, 2-bis(4-chlorophenyl) ethane
39.	DDT	1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane
40.	Dichlorvos (DDVP)	2,2-dichlorovinyl dimethyl phosphate
41.	Demeton-O	O,O-diethyl O-2-ethylthioethyl phosphorothioate
42.	Demeton-S	-diethyl S-2-ethyl thioethyl phophorothioate
43.	Diazinon	O,O-diethyl-O-2-isopropyl-6-methyl pyrimidin-4-yl-phosphorothioate
44.	Naled (Dibrom)	(1,2-dibromo-2,2-dichloroethyl dimethyl phosphate)
45.	2,4-D	(2,4-dichlorophenoxy) acetic acid

46.	Dieldrin	1R,4S,4aS, SR, 6R, 7S, 8S, 8aR)-1,2,3,4,10,10-hexachloro 1,4,4a, 5,6,7,8,8a-octachydro-6,7-epoxy-1,4:5,8-dimethano naphthalene
47.	Dimethoate	O,O-dimethyl S-methyl carbamoylmethyl phophorodithioate
48.	Trichlorfon (Dipterex)	dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate
49.	DNOC	4-6-dinitro-o-cresol
50.	EDCT mixture	1,2-dichloroethane carbontelra chloride mixture
51.	Thiometon (Ekatir)	S-2-ethyl thioethyl-O,O-dimethyl phosphorodithioate
52.	Endrin	(1R, 4S, 4aS, 5S, 6S, 7R, 8R, 8aR)-1,2,3,4,10,10-hexachloro-1,4,4a, 5,6,7,8,8a-octahydro-6,7-epoxy-1,4,5,8 dimethanonaphthalene
53.	EPN	O-ethylO-4-nitriphenyl phenyl phosphonothioate
54.	Ethoxy ethyl mercuric chloride	ethoxy ethyl mercuric chloride
55.	EPTC (Eptam)	5-ethyl dipropyl thiocarbamate
56.	Ethyl mercury phosphate	ethyl mercury phosphate
57.	Ethyl mercury chloride	ethyl mercury chloride
58.	Ethylene dibromide	1,2-dibromoethane
59.	Ethylene dichloride	1,2-dichloroethane
60.	Fenson	4-chlrophenyl benzene suphonate
61.	Fenthion	O,O-dimethyl O-4-,methylthio-m-tolyl phosphorothiaote
62.	Ferbam	iron tris(dimethyldithiocarbamate)
63.	Azinphos-methyl (Gusathion M)	S-3,4-dihydro-4-oxobenzo[d]-[1,2,3]-triazin-3-ylmethyl) O,O dimethyl phosphorodithioate
64.	Heptachlor	1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene
65.	TEPP (HETP)	tetraethyl pyrophosphate
66.	Hexachlorobenzene	hexachloro benzene
67.	Hydrogen cyanide	hydrogen cyanide
68.	Hydrogen phosphide	phosphine
69.	Lead arsenate	lead arsenate
70.	Calcium polysulfide (Lime sulfur)	calcium polysulfide
71.	gamma-HCH (lindane)	gamma-isomer of 1,2,3,4,5,6-hexachlorocyclohexane
72.	Malathion	diethyl (dimethoxy thiophosphoryl thio)succinate
73.	Maleic hydrazide	6-hydroxy-2H pyridazin -3-one

74.	Maneb	manganese ethylene bis(dithiocarbamate) (polymeric)
75.	MCPA	(4-chloro-2-methylphenoxy) acetic acid)
76.	Mercurious chloride	mercury (I) chloride
77.	Metaldehyde	r-2,c-4,c-6,c-8-tetramethyl-1,3,5,7-tetroxocane
78.	Oxydemeton-methyl (Metasyotox R)	S-2-ethylsulfinylethyl O,O-dimethyl phosphorothioate
79.	Methoxychlor	1,1,1-trichloro-2,2-bis (4-methoxyphenyl)ethane
80.	Methoxy ethyl mercury chloride	methoxy ethyl mercury chloride
81.	Methyl bromide	Bromomethane
82.	Demeton-S-methyl (Methyl demeton)	S-2-ethylthioethyl O,O-dimethyl phosphorothioate
83.	Methyl Mercury Chloride	methyl mercury chloride
84.	Parathion methyl (Methyl parathion)	O,O-dimethyl O-4-nitrophenyl phosphorothioate
85.	Metox	
86.	Nabam	disodium ethylene bis(dithiocarbamate)
87.	Nicotine sulfate	(S)-3-(1-methyl pyrrolidin-2-yl)pyridine-sulfate
88.	Schradan (Octa methyl pyrophosphoramide)	Octamethyl pyrophosphonic tetra-amide
89.	Para-dichloro benzene	para-dichlorobenzene
90.	Parathion	O,O-diethyl-O-4-nitrophenyl phosphorothioate
91.	Copper aceto arsenate (Paris Green)	copper aceto arsenite
92.	Quintozene (Pentachloronitrobenzene, PCNB)	pentachloronitrobenzene
93.	Pentachlorophenol	pentachlorophenol
94.	Phenyl mercury acetate	phenylmercury acetate
95.	Phenyl mercury chloride	phenyl mercury chloride
96.	Phenyl mercury urea	phenyl mercury urea
97.	Mevinphos (Phosdrine)	2-methoxycarbonyl-1-methylvinyl dimethyl phosphate
98.	Phosmet (Phthalimidomethyl, Imidan)	O,O-dimethyl-S-phthalimidomethyl phosphoro dithioate
99.	Piperonyl butoxide	5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole
100.	Pindone (Pival)	2-pivaloylindan-1,3-dione
101.	Potassium cyanide	potassium cyanide
102.	Pebulate (Tillam)	S-propyl butyl (ethyl) thiocarbamate

103.	Pyrethrins (Pyrethrum)	For pyrethrin 1 -- (Z)-(S)-2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl(IR)-trans-2,2-dimethyl-3-(2-methyl prop-1-enyl) cyclopropanecarboxylate For cinerin 1 --(Z)-(S)-3-(but-2-enyl)-2-methyl-4-oxocyclopent-zenyl(1R) -trans-2,2-dimethyl-3-(2-methylprop-1-enyl)-cyclopropanecarboxilate For Jasmolin 1 -- (Z)-(S)-2-methyl - 4-oxo-3-(pent-2-enyl)cyclopent-2-enyl (1R)-trans-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate
104.	Rotenone	(2R, 6aS, 12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxy chrormeno [3,4-furo[2,3-h]chromen-6-one
105.	Ryanodine (Ryania)	(2S, 3S 4R, 4aS, 5S, 5aS, 8S, 9R, 9aR, 9bR)-2,3,4a,5a,9,9b-hexahydro-3-isopropyl-2a,5,8,-trimethylperhydro-2,5- metho benzo [1,2]pentaleno [1,6-bc]furan-4-yl pyrrole-2-carboxylate.
106.	Sodium fluoroacetate	sodium fluoroacetate
107.	Sodium cyanide	sodium cyanide
108.	Sodium hexafluorosilicate (Sodium fluosilicate)	disodium hexafluorosilicate
109.	Sulfur	sulfur
110.	Strychnine	strychnidin-10-one
111.	Sulfoxide	2-(1,3-benzodioxol-5-yl)ethyl octyl sulfoxide
112.	TCA	trichloro acetic acid sodium and ammonium salts
113.	Tetradifon (Tedion)	4-chlorophenyl 2,4,5-trichlorophenyl sulfone
114.	TEPP	tetraethyl pyrophosphate
115.	Tetrachloro-p-benzoquinone	tetra chloro-p-benzoquinone
116.	Iso bornyl thiocyanoacetate (Thanite)	exo- 1,7,7-trimethyl bicyclo [2.2.1] hept-2-yl thiocyanatoacetate
117.	Thiram	bis(dimethyl thiocarbamoyl)disulphide **OR** Tetramethylthiuram dimethyl
118.	Tolyl mercury acetate	tolyl mercury acetate
119.	Trichlorphon	dimethyl 2,2,2-trichloro-1-hydroxy ethyl phosphonate
120.	Triorthocresyl phosphate	triortho cresyl phosphate
121.	Thallium sulphate	thallium sulphate
122.	Thiometon	S-2-ethylthioethyl O,O-dimethyl phosphorodithioate

123.	Camphechlor (Toxaphene)	A reaction mixture of chlorinated camphenes containing 67-69% chlorine
124.	2,4,5-T (Trichlorophenoxy acetic acid)	(2,4,5-trichlorophenoxy)acetic acid
125.	Warfarin	(RS)-4-hydroxy-3-(3-oxo-1-phenylbutyl)coumarin
126.	Zinc Phosphide	zinc phosphide
127.	Zimet	
128.	Zineb	zinc ethylene bis-(dithiocarbamate) (polymeric)
129.	Ziram	zinc bis (dimethyl dithiocarbamate)
130.	Zulate	
****Added vide Notification No. GSR 9(E) * dated 09/01/74**		
131.	Acrolein	prop-2-enal
132.	Pirimiphos-methyl (Actellic)	O-2-diethylamino-6-methylpyrimidin-4-yl O, O-dimethyl phosphorothioate
133.	Pyrazophos (Afugan)	ethyl 2-diethoxyphosphinothioyloxy-5-methyl pyrazolo[1,5-a]pyrimidine-6-carboxylate
134.	Alachlor	2-Chloro-2′,6′-diethyl-N-methoxymethyl-acetanilide
135.	Aldicarb	2-methyl-2-(methylthio)propionaldehyde 0-methylcarbamoyl oxime
136.	Amidithion	S-(N-2-methoxyethylcarbamoylmethyl) 0,0-dimethyl phosphorodithioate
137.	Amitrole	1H-1,2,4-triazol-3-ylamine
138.	Ammonium sulfamate	ammonium sulfamidate
139.	Asulam	methyl sulfanilyl carbamates
140.	Atrazine	6-chloro-N2-ethyl-N4-isopropyl-1,3,5-triazine-2,4-diamine
141.	Aureofungin	Aureofungin
142.	Azinphos-ethyl	S-(3,4-dihydro-4-oxobenzo-[d]-[1,2,3]-triazin-3- ylmethyl)0,0-diethyl phosphorodithioate
143.	Barban	4-chlorobut-2-ynyl 3-chlorocarbanilate
144.	Barium Polysulfide	barium polysulfide
145.	Bentazone (Basagran)	3-isopropyl-I H-2,1,3-benzothiadiazin-4(3,H)-one 2,2-dioxide
146.	Fluchloralin (Basalin)	N-(2-chloroethyl)- a,a,a -trifluro-2,6-dinitro-N-propyl-p-toluidine
147.	Fenobucarb (Bassa)	2-sec-butylphenyl methylcarbamate
148.	Carbendazim (Bavistin)	methylbenzimidazol-2-ylcarbamate
149.	Chlorofenethol (BCPE)	1,1-bis(4-chlorophenyl) ethanol

150.	Benomyl	methyl 1-(butylacarbamoyl)benzimidazol-2-ylcarbamate
151.	Bensulide	S-2-benzenesulphonamidoethyl O,O-diisopropyl phosphorodithioate
152.	Binapacryl	2-sec-butyl-4,6-dinitro phenyl-3-methylcrotonate
153.	Bromacil	5-bromo-6-methyl-3-(1-methylpropyl)-2,4 (1H, 3H)-pyrimidinedione
154.	Bromoxynil	3,5-dibromo-4-hydroxybenzonitrile
155.	Brompyrazon	5-amino-4-bromo-2-phenylpyridazin -3-(2H)-one
156	Brozone	methyl bromide and chloropicrin in petroleum solvent
157	Buturon	3-(4-chlorophenyl)-1-methyl-1-1-methyl prop-2-ynyl)urea
158.	Butylate	S-ethyl-di-isobutylthiocarbamate
159.	Bufencarb (Bux)	Mixture of 3-(1-methylbutyl) phenyl methylcarbamate and 3-(1-ethylpropyl) phenyl methylcarbamate
160.	Cadmium based compounds	cadmium chloride, cadmium sulphate, cadmium succinate
161.	Campogram M	2,5-dimethyl-furan 3-carbonic acid anilide and 320 gmscg (Zink)
162.	Captafol	N-(1,1,2,2-tetrachloroetheylthio) cyclohex-4-ene-1,2-dicarboximide
163.	Carbofuran	2,3-dihydro-2,2-dimethyl benzofuran-7-yl methylcarbamate
164.	Carbophenothion	S-4-chlorophenylthiomethyl-O,O-diethyl phosphorodithioate
165.	Carboxin (DCMO)	5,6-dihydro-2-methyl-1,4-oxathi-ine-3-carboxanilide
166.	Chinomethionat	S,S-(6-methylquinoxaline-2,3-diyl) dithiocarbonate
167.	Chloramben	3-amino-2,5-dichlorobenzonic acid
168.	Chlorbufam (BIPC)	1-methylprop-2-ynyl-3-chlorocarbanilate
169.	Chlorfenvinphos	2-chloro-1-(2,4-dichlrophenyl)vinyl diethylphosphate
170.	Chlormequat Chloride	2-chloroethyltrimethylammonium chloride
171.	Chloroneb	1,4-dichloro-2,5-dimethoxybenzene
172.	Chloroxuron	3-[4-(4-Chlorophenoxy) phenyl]-1,1-dimethylurea
173.	Chlorpropane	Chloropropane
174.	Citicide	Chlorinated terpenes
175.	Citowett	alkylarylpolyglykol ether
176.	Niclosamide-olamine (Clonitralid)	2’,5-dichloro-4’ nitrosalicylanilideolamine
177.	Copper Hydroxide	Copper hydroxide
178.	Coumafuryl	3-[1-(2-furyl)-3-oxobutyl}-4-hydroxycoumarin

179.	Coumaphos	O-3-Chloro-4-methyl-2-oxo-2H-chromen-7-yl O,O-diethyl phosphorothioate
180.	Coumatetralyl	4-hydroxy-3-(1,2,3,4-tetrahydro-1-naphthyl)coumarin
181.	Coyden	3,5-dichloro-6-dimethyl-4-pyridinol
182.	Chlorfensulphide (CPAS)	4-chlorophenyl 2,4,5-trichlorophenylazosulphide
183.	Cyclomoph	N-Cyclodecyl-2,6-dimethyl-morpholinacetate
184.	Cycluron (COMU)	3-cyclo-octyl-1,1-dimethyl urea
185.	Mephosfolan (Cytrolane)	diethyl 4-methyl-1,3-dithiolan-2-ylidene phosphoramidate
186.	2,4-DB	4-(2,4-dichlorophenoxy)butyric acid
187.	Diethyltoluamide (DEET)	N,N-diethyl-m-toluamide
188.	DMPA	O-2,4-dichlorophenyl O-methyl-isopropylphosphoramidothioate
189.	DSMA (methylarsonic acid)	disodium methylarsonate
190.	Decarbofuran	2,3-dihydro-2-methylobenzofuran-7-yl-methylcarbamate
191.	Decazolin	1-(alpha,alpha-dimethyl-beta-acetoxypropionyl-3- isopropyl-2,4-dioxodecahydroquinazoline
192.	Dibromochloropropane	1,2-dibromo-3-chloropropane
193.	Dicamba	3,6-dichloro-o-anisic acid
194.	Dichlobenil	2,6-dichlorobenzonitrile
195.	Dichofenthion	O-2, 4-dichlorophenyl O,O-diethyl phosphorothioate
196.	Dichlone	2,3-dichloro-1,4-naphthoquinone
197.	Dichloropropane	1,2-dichloropropane
198.	Dicloran	2,6-dichloro-4-nitroaniline
199.	Dicofol	2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol
200.	Dicrotophos	(E)-2-dimethyl carbamoyl-1-methylvinyl dimethyl phosphate
201.	Temephos (Difenphos, Abate)	O,O,O',O'-tetramethyl O,O'-thiodi-p-phenylene (phosphorothioate)
202.	Dikar	A blend of mancozeb (Dithane M-45) and Tech. Karathane
203.	Daminozide (Alar)	N-dimethylamino succinamic acid
204.	Dinocap	2,6-dinitro-4-octylphenyl crotonates and 2,4-dinitro-6-octyl phenyl crotonates in which 'octyl' is a mixture of 1-methyl heptyl, 1-ethylhexyl and 1-propylpentyl groups
205.	Dinoseb	2-sec-butyl-4,6-dinitrophenol
206.	Dinoseb acetate	2-sec-butyl-4,6-dinitriphenyl acetate
207.	Dioxathion	S,S'-(1,4-dioxane-2,3-diyl) O,O,O',O'-tetraethyl bis

		phosphosphorodithioate
208.	Diphacinone	2-(diphenylacetyl)indan-1, 3-dione
209.	Diphenamid	N,N-dimethyldiphenylacetamide
210.	Disulfoton	O,O-diethyl S-2-ethylthioethyl phosphorodithioate
211.	Diuron	3-(3,4-dichlorophenyl)-1,1-dimethylurea
212.	Dodine	1-dodecylguanidini imiacetate
213.	Dodemorph	4-cyclododecyl-2,6-dimethylmorpholine
214.	Chlorophacinone (Drat)	2-[2-(4-chlrophenyl)-2-phenylacetyl] indan-1,3-dione
215.	Chlorpyrifos (Dursban)	O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate
216.	Dusting Sulfur	sulfur
217.	Edifenphos	O-ethyl-S, S'-diphenyl phosphorodithioate
218.	Endosulfan	(1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3- ylene bismethylene) sulfite
219.	Endothal	7-oxabicyclo [2,2,1] heptane-2,3-dicarboxylic acid
220.	EPTC	S-ethyldipropylthiocarbamate
221.	Erbon	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichlorpropionate
222.	Ethion	O,O,O'O'-tetraethyl S,S'-methylene bis (phosphorodithioate)
223.	Ethephon (Ethrel)	2-chloroethylphosphonic acid
224.	Chlorfenac; Chlorfenac-sodium (Fenac)	(2,3,6-trichlorophenyl) acetic acid
225.	Fenazaflor	phenyl 5,6-dichloro-2-trifluoromethyl benzimidazole-1-carboxylate
226.	Fenitrothion	O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate
227.	Fensulfothion	O,O-diethyl O-4-methylsulfinylphenyl phosphorothioate
228.	Fentin chloride	triphenyltin (IV) chloride
229.	Fentin hydroxide	triphenyltin (IV) hydroxide
230.	Fentin acetate	triphenyltin (IV) acetate
231.	Fluometuron	1,1-dimethyl-3-(a, a, a-m-tolyl) urea
232.	Tributyl phosphorotrithioite (Folex)	tributyl phosphorotrithioite
233.	Fonofos (Dyfonate)	O-ethyl S-phenyl(RS)-ethyl phosphonodithioate
234.	Formothion	S-[formyl (methyl) carbamoylmethyl] O,O-dimethyl phosphorodithioate
235.	Fujithion	S-(p-chlorophenyl) O,O-dimethyl phosphorothioate
236.	Gibberellic acid (Gibberellins)	3S, 3aS, 4S, 4aS, 7S, 9aR, 9bR, 12S)-7,12-dihydroxy-3-methyl-6 methylene-2-oxo perhydro-4a, 7-methano-9b, 3-propeno

		[1,2-b] furan- 4-carboxylic acid
237.	Noruron (Herban)	1,1-dimethyl-3-(perhydro-4,7 methanoinden-5-yl) urea
238.	Indol-3-ylacetic acid and 4-indol 3-ylbutyric acid	Indol-3-ylacetic, 4-indol-3-ylbutyric acid
239.	Ioxynil	4-hydroxy-3,5-di-iodobenzonitrile
240.	Isobenzan	1,3,4,5,6,7,8,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran
241.	Isonoruron	1,1-dimethyl-3-(perhydro-4,7-methanoinden-1-yl)urea
242.	Isoprocarb	2-isopropylphenyl methylcarbamate
243.	EBP (Kitazin)	S-benzyl-O,O-diethyl-phosphorothioate
244.	Lenacil	3-cyclohexyl-1,5,6,7-tetrahydrocyclopentapyrimidine - 2,4 (3H)-dione
245.	Linuron	3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea
246.	Chlorquinox (Lucel)	5,6,7,8-tetrachloroquinoxaline
247.	MSMA	sodium hydrogen methyl arsonate
248.	Butachlor (Machete)	N-butoxymethyl-2-chloro-2', 6'-diethyl-acetanilidie
249.	Mancozeb	manganese ethylenebis (dithiocarbamate) (polymeric) complex with zinc salt
250.	Menap	O-ethyl S,S-dipropyl phosphordithioate
251.	Menazon	S-4,6-diamino-1,3,5-triazin-2-ylmethyl O,O-dimethyl phosphorodithioate
252.	Metbromuron	N-(p-bromophenyl)-N'-methyl-N'methoxyurea
253.	Metam-Sodium	methyldithiocarbamic acid
254.	Methamidophos	O,S-dimethyl phosphoramidothioate
255.	Methomyl	S-methyl-N-(methylcarbamoyloxy) thioacetimidate
256.	Methylmetiram	ammoinium complex with Zn-(N' N-1, 2-propylenebis-(dithiocarbamate) and N'N'-Poly-1,2-propylenebis-(thiocarbamoyl)-di-sulphide
257.	Metiram	zinc ammoniate ethylene bis (dithiocarbamate)- poly (ethylenethiuram disulphide)
258.	Metoxuron	3-(3-chloro-4-methoxyphenyl)-1,1 dimethylurea
259.	Mevinphos	2-methoxycarbonyl-1-methylvinyl dimethyl phosphate
260.	MCPB	4-(4-chloro-o-tolyloxy)butyric acid
261.	Molinate	S-ethylperhydroazepin-1-thiocarboxylate
262.	Monocrotophos	dimethyl (E)-1-methyl-2-(methylcarbamoyl) vinyl phosphate
263.	Monolinuron	3-(4-chlorophenyl)-1-methoxy-1-methylurea

264.	Naphthylaccetic acid	1-naphthyl acetic acid
265.	Neburon	1-butyl-3-(3,4-dichlorophenyl)-1-methylurea
266.	Naled	1,2-dibromo-2,2-dichloroethyl dimethyl phosphate
267.	Thionazin (Nemafos)	O,O-diethyl O-pyrazin-2-yl-phosphorothioate
268.	Tetramethrin (Neo-Pynamin)	cyclohex-1-ene-1, 2-dicarboximidomethyl (1RS, 3RS; 1RS, 3SR)-2, 2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate
269.	Nickel chloride	nickel chloride
270.	Nitrofen	2,4-dichlorophenyl 4-nitrophenyl ether
271.	Omethoate	O,O-dimethyl S-methylcarbamoylmethyl phosphorothioate
272.	Acephate (Orthene)	O,S-dimethyl acetylphosphoramidothioate
273.	Oxapyrazon	5-bromo-1,6-dihydro-6-oxo-1-phenyl-pyridazin-4- yloxamic acid
274.	Oxycarboxin (DCMCD)	5,6-dihydro-2-methyl-1,4-oxathi-ine-3-carboxanilide- 4,4-dioxide
275.	Paraquat	1,1'-dimethyl-4,4'-bipyridinediium
276.	Pebulate	S-propyl butyl (ethyl) thiocarbamate
277.	Phenthoate	S-???-ethoxycarbonylbenzyl O, O-dimethyl phospohorodithioate
278.	Phorate	O,O-diethyl S-ethylthiomethyl phosphorodithioate
279.	Phosalone	S-6-chloro-2,3-dihydro-2-oxobenzoxazol -3-ylmethyl O,O-diethyl - phosphorodithioate
280.	Phosmet	O,O-dimethyl S-phthalimidomethyl phosphorodithioate
281.	Phosphamidon	2-chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate
282.	Phosphorous Paste	Phosphorus Paste
283.	Leptophos (Phosvel)	O-4-bromo-2,5-dichlorophenyl O-methylphenyl phosphonothioate
284.	Phoxim	O,O-diethyl a-cyanobenzyl ideneamino-oxy phosphonothioate
285.	Picloram	4-amino-3,5,6-trichloropicolinic acid
286.	Cyhexatin (Plictran)	tricyclohexyltin hydroxide
287.	Propyzamide (Pronamide, Kerb)	3,5-dichloro-N-(1,1-dimethylpropynyl) benzamide
288.	Propanil	3',4'-dichloropropionanilide
289.	Propargite (Omite)	2-(4-tert-butyl phenoxy) cyclohexyl prop-2-ynyl sulfite
290.	Propineb	polymeric zinc propylenebis (dithiocarbamate)
291.	Propoxur	2-isopropoxyphenyl methylcarbamate

292.	Prynachlor	2-chloro-N-(1-methylprop-2-ynyl) acetanilide
293.	Pyracarbolid	3,4-dihydro-6-methyl-2H-pyran-5-carboxanilide
294.	Chloridazon (Pyrazon, PCA)	5-amino-4-chloro-2-phenyl-pyridazin-3(2H)-one
295.	Quinalphos	O, O-diethyl O-quinoxalin-2-yl phosphorothioate
296.	Phthalide (Rabicide)	4,5,6,7-tetrachloropthalide
297.	Cycloate (Ro-Neet)	S-ethyl N-cyclo hexyl (N-ethyl) thiocarbamate
298.	Fenchlorphos (Ronnel)	O,O-dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate
299.	S 421	bis(2,3,3,3-tetrachloropropyl) ether
300.	Dichlozoline (Selex)	3-(3, 5-dichlorophenyl)-5,5-dimethyl-1,3-oxazolidine 2,4-dione
301.	Simazine	6-chloro-N2, N4-diethyl-1,3,5-triazine-2,4-diamine
302.	Sindone A	1,1-dimethyl-4,6-di-isopropyl-indanyl ethtyl ketone
303.	Sindone B	1,1,4-trimethyl 4,6-di-isopropyl-5-indanyl ethyl ketone
304.	Sirmate	3,4,2,3-dichlobenzyl N-methyl carbamate
305.	Swep	methyl 3,4 dichlorocarbanilate
306.	Tar oils (Tar Acid)	Tar oils consist mainly of aromatic hydro-carbons, but contain components the 'phenols' or 'tar acids' and nitrogenous bases 'tar bases'
307.	Tavron G	2,2,2-trichloroethyl stryrene
308.	2,4,5-TB	4-(2,4,5-trichlorophenoxy) butyric acid
309.	Tecnazene	1,2,4,5-tetrachloro-3-nitrobenzene
310.	Terbacil	3-tert-butyl-5-chloro-6-methyluracil
311.	Tetrachlorvinphos	(Z)-2-chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate
312.	Tetram (amiton)	S-2-diethylaminoethyl O,O-diethyl phosphorothioate
313.	Thiadiazinthion	Tetra hydro-5-methyl-6-thioxo-2H-1,3,5-thia diazen -3yl acetic acid
314.	Thiophanate-methyl	dimethyl 4,4'-(0-phenylene)bis (3-thioallophanate)
315.	Tranid	exo-3-chloro-endo-6-cyano-2 norbornanone O-(methyl carbamoyl) oxime
316.	Triallate	S-2,3,3-trichloroallyl di-isopropyl (thiocarbamate)
317.	Tridemorph	4-alkyl-2,6-dimethyl morpholine
318.	Trifluralin	a, a, a?-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine
319.	Tunic	2-(3,4-dichlorophenyl)-4-methyl-1, 2,4-oxadiazolidine-3,5-dione
320.	CECA (Udonkor)	2-chloro-N (2-cyanoethyl) acetamide

321.	Vamidothion	O,O-dimethyl-S-2-(1-methylcarbamoylethylthio) ethyl phosphorothioate
322.	Etem (Vegita)	ethylenethiuram monosulphide
323.	Vornzlate	S-propyl NN-dipropyl thiolcarbamate
324.	Mexacarbate (Zectran)	4-dimethylamino-3, 5-xylylmethylcarbamate
****Added Vide Notification No. GSR 823 (E) * dated 28/09/74**		
325.	Methabenzthiozuron	1-(1,3-benzothiazol-2-yl)-1,3-dimethylurea
****Added Vide Notification No. GSR 200 (E) * dated 29/03/78**		
326.	Bacillus species	Bacillus species
327.	Glyphosate	N-(phosphonomethyl) glycine
328.	Streptomycin	O-2-deoxy-2-methylamino-a-L-glucopyranosyl-(1®2-O- 5- deoxy-3-C-formyl-a-L-lyxofuranosyl-(1®4)-N3, N3 diamidino - D- streptamine
329.	Terbutryn	N2-tert-butyl-N4-ethyl-6-methylthio-1,3,5-triazine-2,4- diamine
330.	Tetracycline	4-(dimethyl amino) 1,4,4a,5, 5a, 6, 11, 12 a- octahydro-3,6,10,12,12a-penta hydroxy -6-methyl-1, 11-dioxo-2-naphthacenecarboxamide
**** Added vide Notification No. GSR 574 (E) * dated 06/10/79**		
331.	Thiobencarb (Benthiocarb)	S-4-chlrorobenzyl diethyl thiocarbamate
332.	Cypermethrin	(RS)-a-cyano-3-phenoxybenzyl (1 RS, 3RS; 1RS, 3SR) - 3- (2,2-dichlorovinyl)-2,2-dimethyl cyclopropanecarboxylate
333.	Deltamethrin (Decamethrin)	(S)-a?-cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate
334.	Fenvalerate	(RS)-a-cyano-3-phenoxybezyl (RS)-2- (4-chlorophenyl)-3-methylbutyrate
335.	Permethrin	3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanecarboxylate
336.	Tetrachloroisophthalonitrile	1,2,4-trichloro-3, 5-dinitrobenzene.
****Added Vide Notification No. GSR 32 (E) * dated 12/02/80**		
337.	Bromophos	O-4 bromo-2,5 dichlorophenyl O,O-dimethyl phosphorothioate
338.	Bromophos ethyl	O-4-bromo-2, 5-dichlorophenyl O,O-diethyl phosphorothioate
339.	Cartap	S, S'-(2-dimethylaminotrimethylene)bis (thiocarbamate)
340.	Dichlorophen (Antiphen)	4,4'-dichloro-2, 2'-methylenediphenol
341.	Dinobuton	2-sec-butyl-4,6-dinitrophynyl isopropyl carbonate
342.	Dithianon	5,10-dihydro-5,10-dioxonaphtho [2,3-b]-1,4-dithiine-2,3-dicarbonitrile

343.	Ethyl Formate	2 sec-butyl -4,6-dinitrophenyl isopropyl carbonate formic acid ethyl ester
344.	Fenfuram	2-methyl-3-furanilide
345.	Glyphosine	N, N-bis (phosphonomethyl)glycine
346.	Iminooctadine (Guazatine)	1,1' iminodi (octamethylene) diguanidine
347.	Isofenphos	O-ethyl O-2-isopropoxycarbonylphenyl N-isopropyl phosphoramidothioate
348.	Isoproturon	3-(4-isopropylphenyl)-1,1dimethyl urea
349.	Magnesium phosphide	magnesium phosphide
350.	Metribuzin	4-amino-6-tert-butyl-4,5-dihydro-3-methylthio-1,2,4- triazin-5-one
351.	Triadimefon	1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1, 2,4-triazol-1-yl)butan-2-one
352.	Triforine	1,1'-piperazine-1,4-diyldi-[N-(2,2,2-trichloroethyl) formamide]
353.	Pyrinuron (Vacor)	1-(4-nitrophenyl)-3-(3-pyridylmethyl) urea
****Added Vide Notification No. GSR 501 (E) * dated 17/07/82**		
354.	Amitraz	N-methylbis(2,4-xylyliminomethyl) amine
355.	Bendiocarb	2,2-dimethyl-1,3-benzodioxol 4-yl methylcarbamate
356.	Benodanil	2-iodobezanilide
357.	Benzoylprop-ethyl	N-benzoyl-N-(3,4-dichlorophenyl)-DL-alanine
358.	Bromadiolone	3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1- phenylpropyl]-4-hydroxy coumarin
359.	Triazbutil (Butrizol)	4-butyl-4H-1, 2,4-triazole
360.	Cyanazine	2-(4-chloro-6-ethylamino-1,3,5-triazin-2-ylamino)-2-methylpropiononitrile
361.	Diclofop-methyl	(RS)-2-[4-(2,4-dichlorophenoxy) phenoxy]propinoic acid
362.	Etrimfos	O-6-ethoxy-2-ethylpyrimidin-4-yl O,O-dimethyl phosphorothioate
363.	Fosetyl-aluminium	ethyl hydrogen phosphonate-aluminium
364.	Glyodin	2-heptadecyl-2-imidazoline acetate
365.	Metalaxyl	Methyl N-(methoxyacetyl)-N-(2,6-xylyl)-DL-alaninate
366.	Oxadiazon	5-tert-butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4- oxadiazol-2(3H)-one
367.	Oxyfluorfen	2-choloro-a,a,a-trifluoro-p-tolyl 3-ethoxy-4-nitrophenyl ether
368.	Pendimethalin	N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine
369.	Propetamphos	(E)-O-2-isopropoxycarbonyl-1-methylvinyl O-methyl ethylphosphoramidothioate

370.	Scilliroside	3 b - (b-D-glucopyranosyloxy)-17 b-(2-oxo-2H-pyran-5-yl)-14 b androst-4-ene-6 b, 8,14-triol-6-acetate
371.	TCMTB	2-(thiocyanomethyl-thio)benzothiazole
372.	Thiabendazole	2-(thiazol-4-yl)benzimidazole
373.	Thiocyclam hydrogen oxalate	N,N-dimethyl-1,2,3-trithian-5ylamine hydrogen oxalate
374.	Vinclozolin	(RS)-3-(3,5-dichlorophenyl)-5-methyl-5 vinyl-1,3- oxazolidine-2,4-dione
****Added vide notification No. GSR 500(E) * dated 18/06/85**		
375.	Bitertanol	1-(biphenyl-4-yloxy)-3,3-dimethyl-1-(1H-1,2,4- triazol-1- yl)butan-2- ol [20:80 ratio of (1RS, 2RS) and (1RS, 2SR)isomers]
376.	Brodifacoum	3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4 tetrahydro-1- naphtyl] 4- hydroxycoumarin
377.	Diflubenzuron	1-(4-chlorophenyl)-3-(2,6-difluorobenzoyl) urea
378.	Flucythrinate	(RS)-?-cyano-3-phenoxybenzyl (S)-2-(4- difluoromethoxy-phenyl)-3- methylbutyrate
379	Methoprene	isopropyl (E, E) -(RS)-11-methoxy-3, 7,11- trimethyldodeca-2, 4- dienoate
380.	Sethoxydim	(+)-(EZ)-2-(1-ethoxyiminobutyl)-5[2- (ethylthio)propyl] 3- hydroxycyclohex-2-enone
381.	Triazophos	O,O-diethyl O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate
****Added Vide Notification No. GSR 839 (E) * dated 14/11/85**		
382.	Amidine Hydrazone	tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone [3-[4- (trifluoromethyl) phenyl]-1-[2-[4 phenyl) ethenyl-2-propenylidene] hydrazone
383.	Anilofos	S-4-chloro-N-isopropylcarbaniloylmethyl O,O-dimethyl phosphorodithioate
384.	Carbosulfan	2,3-dihydro-2,2-dimethyl benzofuran-7-yl [(dibutylaminothio) methyl carbamate
385.	Chlorotoluron	3-(3-chloro-p-tolyl)-1,1-dimethylurea
386.	DEPA	N-diethyl-phenyl acetamide
387.	Fenpropathrin	(RS)-a cyano-3-phenoxybenzyl-2,2,3,3-tetramethtyl cyclopropanecarboxylate
388.	Herbal Extract	Mixture of diallyl disulphide, allyl propyl disulphide and allyl isothiocyanate

389.	Isoprothiolane	di-isopropyl 1,3-dithioalan-2-ylidenemalonate
390.	Kasugamycin	[5-amino-2-methyl-6--(2,3,4,5,6-pentahydroxycyclohexyloxy) tetrahydropyran-3-yl]amino-a-iminoacetic acid hydrochloride hydrate
391.	Methacrifos	(E)-O-2-methoxycarbonylprop-l-enyl O,O-dimethyl phosphorothioate
392.	Phenothrin [(1R)-trans-isomer]	3-phenoxybenzyl (+)-cis-trans-chrysanthemate
393.	Probenazole	3-allyloxy-1,2-benz[d] isothiazol-1,1-dioxide
394.	Prochloraz	N-propyl-N-[2-(2,4,6-trichlorophenoxy) ethyl] -imidazole-1-carboxamide
395.	Tau-fluvalinate	(RS)-a-cyano-3-phenoxybenzyl N-(2-chloro-a, a, a-trifluoro-p-tolyl) -D-valinate
Added Vide Notification No. GSR 31 (E) * dated 15/01/87		
396.	Ametryn	N^2-ethyl-N^4-isopropyl-6-methylthio-1,3,5-triazine-2, 4-diamine
397.	Fenamiphos	ethyl 4-methylthio-m-tolyl isopropylphosphoramidate
398.	Fluazifop	(RS)-2-[4-(5-trifluoromethyl-2-pyridyloxy) phenoxy] propionic acid
399.	Prometryn	N^2, N^4,-di-isopropyl-6-methylthio-1,3,5-triazine-2, 4-diamine
****Added Vide Notification No. GSR 511 (E) * dated 22/05/87**		
400.	Azamethiphos	S-6-chloro-2, 3-dihydro-2-oxo-1,3-oxazolo [4,5-b] pyridin -3-ylmethyl O,O dimethyl phosphorothioate
401.	Boric acid	orthoboric acid
402.	Bromopropylate	isopropyl 4, 4’-dibromobenzilate
403.	Chlorpyriphos-methyl	O, O-dimethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate
404.	Vitamin D3 (Cholecalciferol)	(3 b, 5Z, 7E)-9,10-secocholesta -5,7,10 (19)-trien-3-ol
405.	Cyhalothin	(RS)-a-cyano-3-phenoxybenzyl (Z)-2 (1RS, 3RS)-3-(2-chloro-3,3,3 trifluoroprenyl)-2,2-dimethyl-cyclopropanecorboxylate
406.	Haloxyfop-p-methyl	methyl (R) 2-[4-(3-chloro-5-trifluromethyl-2-pyridyloxy) phenoxy] propanoate
407.	Metolachlor	2-chloro-6’-ethyl-N-(2-methoxy-1-methylethyl) aceto-o-toluidide

408.	Pimaricin (Natamycin)	(8E, 14E, 16E, 18E, 20E)-(1R, 3S, 5R, 7R, 12R, 22R, 24S, 25R, 26S) -22-(3-amino-3,6-dideoxy-b-D mannopyranosyloxy) - 1,3,26-trihydroxy-12-methyl-10-oxo-6,11,28-trioxatricyclo [22.3.1.05,7] octacosa-8,14,16,18,20-Pentaene 25-carboxylic acid
409.	Piperophos	S-2-methylpiperidinocarbonylmethyl O,O-dipropylphosphorodithioate
410.	Resmethrin	5-benzyl-3-furylmenthyl (1RS, 3RS; 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxilate
411.	Tolclofosmethyl	O-26-dichloro-p-tolyl O,O-dimethyl phos-phorothioate
412.	Validamycin (Validamycin A)	1L-(1,3,4/2,6)-2,3-dihydroxy-6-hydroxymethyl-4-[(1S, 4R 5S, 6S)-4,5, 6-trihydroxy-3-hydroxymethylcyclohex-2-enylamino] cyclohexyl b-D-glucopyranoside
****Added vide Notification No. GSR 858 (E) * dated 12/08/88**		
413.	Benfuracarb	ethyl N-[2,3-dihydro-2,2-dimethyl benzofuran -7-yloxycarbonyl (methyl) aminothio]-N-isopropyl-b-alaninate
414.	Clopyralid	3,6-dichloropyridine-2-carboxylic acid
415.	Cyfluthrin	(RS)-a-cyano-4-fluro-3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-3-(2, 2-dichlorvinyl)-2,2-dimethylcyclopropanecarboxylate
416.	Alpha-cypermethrin [(S) (1R)-cis-and (R) (1S)-cis- isomer] (Alphamethrin)	A racemate comprising (S)-a-cyano-3-phenoxybenzyl (1R, 3R) 3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropanecarboxylate and (R)-a-cyano-3-phenoxybenzyl (1S, 3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
417.	Cyphenothrin [(1R)-trans-isomers]	(RS)-a-cyano-3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-2^2-dimethyl- 3-(2-methylprop-1-enyl) cyclopropanecarboxylate
418.	Dienochlor	perchloro-1,1'-bicyclopenta-2,4-diene
419.	Clomazone (Dimethazone)	2-(2-chlorobenzyl)-4,4-dimethyl-1,2-oxazolidin-3-one
420.	Etofenprox (Ethofenprox)	2-(4-ethroxyphenyl)-2-methylpropyl 3 -phenoxybenzyl ether)
421.	Fenarimol	(+)-2,4'-dichloro-a-(pyrimidin-5-yl) benzhydryl alcohol
422.	Flocoumafen	4-hydroxy-3-[1,2,3,4-tetrahydro-3-[4-(4- trifluromethylbenzyloxy)-phenyl]-1-napthyl]coumarin (mixture of cis -and trans-isomers)
423.	Flufenoxuron	1-[4-(2-chloro-a,a,a, trifluoro-p-tolyloxy)-2-fluorophenyl)-3-(2,6-difluorobenzoyl)urea

424.	Fluroxypyr	4-amino-3,5-dichloro-6-fluro-2-pyridyloxyacetic acid
425.	Folpet	N-(trichloromethylthio) pthalimide
426.	Methidathion	S-2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadizol-3- ylmethyl O, O dimethyl phosphorodithioate
427.	Myclobutanil	2-p-chlorophenyl-2-(1H-1,2,4-triazol-1-ylmethyl) hexanenitrile
428.	Oxadixyl	2-methoxy-N-(2-oxo-1,3-oxazolidin-3-yl) aceto-2', 6'-xylidide
429.	Penconazole	1-(2,4-dichloro-?-propylphenethyl)-1H-1,2,4 triazole
430.	Prallethrin	(S)-2-methyl-4-oxo-3-prop-2-ynylcyclopent-2-enyl (1R)-cis-trans-2 ,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate
431.	Pretilachlor	2-chloro-2', 6'-diethyl-N-(2-propoxyethyl) acetanilide
432.	Pyridaphenthion	O-(1,6-dihydro-6-oxo-1-phenylpyridazin-3-yl)O,O-diethyl phosphorothioate
433.	Pyridate	6-chloro-3-phenylpyridazin-4-yl S-octyl thiocarboante
434.	Pyroquilon	1,2,5,6-tetrahydropyrrolo [3,2,1-ij] quinolin-4-one
435.	cadusafos (Sebuphos)*	S,Sidi-sec-butyl-O-ethyl phosphorodithioate
	*	Ammended vide notification 744(E) dated 16/11/2004
436.	Sulprofos	O-ethyl O-4-(methylthio)phenyl S-propyl phosphorodithioate
437.	Triadimenol	(1RS, 2RS; 1RS, 2SR)-1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-trizol-1-yl)butan-2-ol
438.	Tricyclazole	5-methyl-1,2,4-triazolo [3,4-b] [1,3]benzothiazole
439.	Tridiphane	(RS)-2-(3,5-dichlorphenyl)-2-(2,2,2-trichloroethyl) oxirane
**** Added vide Notification No. GSR 13 (E) * dated 05/01/90**		
440.	Ethametsulfuron-methyl	methyl 2-[4-ethoxy-6-methylamino-1,3,5-traizin-2-yl)-carbamoylsulphamoyl]benzoate
441.	Metsulfuron-methyl	methyl 3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) amino] carbonyl] amino] sulfonyl] benzoate
442.	Ammonium copper sulphate	ammonium copper sulphate
443.	Benalaxyl	methyl N-phenylacetyl-N-2,6-xylyl-DL-alaninate
444.	Bensulfuron-methyl	Methyl 2-[[[[[(4,6-dimethoxyprimidin-2-yl)-amino]carbonyl]amino] sulfonyl]methyl]benzoate

445.	Bifenthrin [(Z)-(1R)-cis-and (Z)-(1S)-cis-isomers]	2-methylbiphenyl-3-ylmethyl (Z)-(1RS, 3RS)-3-(2-chloro-3,3,3-tifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
446.	Buprofezin	2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5- thiadiazinan-4-one
447.	Chlorfluazuron	1-[3,5-dichloro-4-(3-chloro-5-trifluomethyl-2- pyridyloxy)phenyl]-3-(2,6-difluorobenzoyl) urea
448.	Chlorimuron-ethyl	ethyl 2-(4--chloro-6-methoxypyrimidin-2-yl carbomoyl sulfonyl) benzoate
449.	Chlorsulfuron	1-(2-chlorophenylsulfonyl)-3--(4-methoxy-6-methyl- 1,3,5-triazin-2-yl)urea
450.	Cinmethylin	(1RS, 2SR, 4SR)-1,4-epoxy-p-menth-2-yl 2-methylbenzyl ether
451.	Cinosulfuron	1-(4,6-dimethoxy-1,3,5-triazin-2-yl)-3-[2-(2- methoxyethoxy) phenyl sulfonyl] urea
452.	Cycloxydim	(+)-2-[1-(ethoxyimino)butyl]-3-hydroxy-5-thian-3-yl cyclohex-2-enone
453.	Cymoxanil	1-(2-cyano-2-methoxyiminoacetyl) -3-ethylurea
454.	Cyproconazole	(2RS, 3RS; 2RS, 3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl) butan-2-ol
455.	Cyromazine	N-cyclopropyl-1,3,5-triazine-2,4,6-triamine
456.	Dazomet	3,5-dimethyl-1,3,5-thiadiazinane-2-thione
457.	Defenfenican	2’,4’diflucro-2-a,a,a-trifluoro-m-tolyloxy)-nicatinanilide
458.	Desmetryn	N2-isopropyl-N4-methyl-6-methylthio-1,3,5-triazine-2,4- diamine
459.	Diafenthiuron	1-tert-butyl-3-(2,6-di-isopropyl-4-phenoxyphenyl)- thiourea
460.	Difenoconazole	cis,trans-3-chloro-4-[4-methyl-2-(1H-1,2,4-triazol-1- ylmethyl)-1, 3-dioxolan-2-yl] phenyl-4-chlorophenyl ether
461.	Dimethachlor	2-chloro-N-(2-methoxyethyl)aceto-2’6’-xylidide
462.	Dimethomorph	(E,Z)-4-[3-(4-chlorophenyl)-3-(3,4 dimethloxyphenyl) acryloyl] morpholine
463.	Dipropetryn	6-ethylthio-N2, N4-di-isopropyl-1, 3,5-triazine-2,4- diamine
464.	Diquat & its salt	9, 10-dihydro-8a, 10a-diazoniaphenanthrene
465.	Esfenvalerate	(S)-a-cyano-3-phenoxybenzyl (S)-2-(4-chlorophenyl)-3-methyl butyrate
466.	Ethalfluralin	N-ethyl-a,a,a, trifluro-N-(2-methylallyl)-2,6-dinitro-p-toluidine

467.	Fenmetralin	N-(2-chloro-6-fluorobenzyl) N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toludine
468.	Fenoxaprop-P-ethyl	ethyl (R) -2-[4-[(6-chloro-2-benzoxazolyl) oxy] phenoxy] propanoate
469.	Fenpiclonil	4-(2,3-dichlorophenyl) pyrrole-3-carbonitrile
470.	Fluometuron	1,1-dimethyl-3-(a, a, a-triafluoro-m-tolyl) urea
471.	Flutriafol	(RS)-2, 4'-difluoro-a-(1H-1, 2,4-triazol-1-ylmethyl) benzhydryl alcohol
472.	Furathiocarb	butyl 2,3-dihydro-2, 2-dimethyl benzofuran-7-yl-N, N'-dimethyl- N, N'-thiodicarbamate
473.	Furilazole	(RS)-3-dichloroacetyl-5-(2-furyl)-2,2-dimethyloxazolidine
474.	Glufosinate and its salt	ammonium 4-[hydroxy (methyl) phosphinoyl]-DL-homoalaninate
475.	Haloxyfop-etotyl	ethoxyethyl (RS)-2-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy) phenoxy] propanoate
476.	Hexaconazole	(RS)-2-(2,4-dichlorophenyl)-1-(1H-1,2,4- triazol-1- yl)hexan-2-ol
477.	Hexaflumuron	1-[3,5-dichloro-4-(1,1,2,2-tetra- fluoroethoxy)phenyl]-3- (2,6-difluorobenzoyl)urea
478.	Hexazinone	3-cyclohexyl-6-dimethylamino-1-methyl-1,3,5- triazine- 2,4-(1H, 3H)- dione
479.	Imazapyr & its salt (Arsenal)	2-(4-isopropyl-4-methyl-5-oxo-imidazolin-2-yl) nicotinic acid
480.	Imazethapyr & its salt	(RS)-5-ethyl-2-(4-isopropyl-4-methyl-5- oxo-2- imidazolin-2-yl) nicotinic acid
481.	Iprodione	3-(3,5-dichlorophenyl)-N-isopropyl- 2,4- dioxomidazolidine-1- carboxamide
482.	Isazofos	O-5-chloro-1-isopropyl-1H-1, 2,4-triazol-3-yl O,O-diethyl phosphorothioate
483.	Metsulfovax	2,4-dimethyl-1,3-thiazole-5-carboxanilide
484.	Metsulfuron	2-(4-methoxy-6-methyl-1,3,5-triazin-2- ylcarbamoylsulfamoyl) benzoic acid
485.	Neem products	Neem leaves, Neem oil, Neem seed kernel, Neem cake
486.	Oxamyl	N, N-dimethyl-2-methylcarbamoyl oxyimino-2-(methylthio) acetamide
487.	Profenofos	O-4-bromo-2-chlorophenyl-O-ethyl S-propyl phosphorothioate
488.	Propiconazole	(+)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl

		methyl]- 1H-1,2,4-triazole
489.	Prothoate	O,O-diethyl S-isopropylcarbamoylmethyl phosphorodithoate
490.	Pyraclofos	(RS)-[O-1-(4-chlorophenyl)pyrazol-4-yl O-ethyl S-propyl phosphorothioate]
491.	Pyrazosulfuron and Pyrazosulfuron-ethyl	5-(4,6-dimethoxyopyrimidin-2-ylcarbamoysulfamoyl)-1- methylpyrazole-4-carboxylic acid and ethyl 5-(4,6-dimethoxypyridin-2-yl carbamoylsulfamoyl)-1-methyl pyrazole -4-carboxylate.
492.	Quinclorac	3,7-dichloroquinoline-8-carboxylic acid
493.	Quizalofop and its salts	(RS)-2-[4-(6-chloroquinoxalin-2-yloxy) phenoxyl] propionic acid
494.	Sulfometuron	2-(4, 6-dimethylpyrimidin-2-ylcarbamoylsulfamoyl) benzoic acid
495.	Tebuthiuron	1-(5-tert-butyl-1,3,4-thiadiazol-2-yl)-1,3-dimethylurea
496.	Teflubenzuron	1-(3,5-dichloro-2,4-diofluorophenyl)-3-(2,6- difluorobenzyl) urea
497.	Terbuthylazine	N2-tert-butyl-6-chloro-N4-ethyl-1,3,5-triazine-2,4- diamine
498.	Thiodicarb	3,7,9,13-tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12- tetra-azapentadeca-3,12-diene-6,10-dione
499.	Tralkoxydim	2-[1-(ethoxyimino) propyl]-3-hydroxy-5-mesityl cyclohex-2-enone
500.	Triasulfuron	1-[2-(2-chloroethoxy) phenylsulphonyl]-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) urea
501.	Tribenuron-methyl	methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl) methyl amino] carbonyl] amino]sulfonyl] benzoate
502.	Triclopyr	3,5,6-trichloro-2-pyridyloxyacetic acid
***** Added Vide Notification No. GSR 987 (E) * dated 20/12/90**		
503.	Flucarbimat	
504.	Hexythiazox (Acaricide)	(4RS, 5RS)-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-1,3 thiazolidine-3-carboxamide
505.	Paclobutrazol	(2RS, 3RS)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl) pentan-3-ol
**** Added Vide Notification No. GSR 577(E) * dated 26/08/93**		
506.	Blasticidin-S	1-(4-amino-1,2-dihydro-2-oxopyrimidin-1-yl)-4-[(S)-3- amino-5-(1-methylguanidino)valeramido] 1,2,3,4-tetradeox-b-D-erythrohex-2-enopyranuronic acid

507.	Butocarboxim	3-(methylthio)butanone-O-methylcarbamoyl oxime
508.	Difethialone	3-[(1RS, 3RS; 1RS, 3SR)-3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydro-1-napththyl]-4-hydroxy-1-benzothi-in-2-one
509.	Imazalil (Magnate)	(+) -allyl 1-(2,4-dichlorophenyl)-2-imidazol-1-ylethyl ether.
510.	Imidacloprid	1-(6-chloro-3-pyridylemethyl)-N-nitroi-midazolidin-2-ylideneamine
511.	Naproanilide	2-(2-napthyloxy)-N-phenylpropionamide
512.	MCPA-thioethyl (Phenothiol)	S-ethyl 4-chloro-o-tolyloxythioacetate
513.	Clodinafop Propargyl*	2-propynyl (R) -2-(4-(5-chloro-3- fluoro-2-pyridinyloxy)-phenoxy)-propionate
	*	Ammended vide GSR no. 181 (E) dated 13/03/2001
514.	Terbufos	S-tert-butylthiomethyl O,O-diethyl phosphorodithioate
****Added Vide Notification No. GSR 730 (E) * dated 30/10/95**		
515.	Amidosulfuron	1-(4,6-dimethoxypyrimidin-2yl)-3-mesyl (methyl) sulphamoylurea
516.	Bromuconazole	1-[(2RS, 4RS; 2RS, 4SR)-4 bromo-2-(2,4-dichlorophenyl) tetrahydrofurfuryl]-1H-1,2,4-triazole
517.	Clofentezine	3,6-bis (2-chlorophenyl)-1,2,4,5-tetrazine
518.	Difenzoquat metilsulphate	1,2-dimethyl-3,5-diphenylpyrazolium
519.	Ethoxysulfuron	1-(4,6-dimethoxypyrimidin-2-yl)-3-(2-ethoxyphenoxysulfonyl) urea
520.	Fipronil	(+)-5-amino-1-(2,6-dichloro-?????-trifluoro-p-tolyl)-4- trifluoromethylsulfinylpyrazole-3-carbonitrile
521.	Lactofen	ethyl-O-[5-(2-chlroro-a,a,a-trifluoro-p-tolyloxy)-2- nitrobenzoyl]-DL-lactate
522.	Propamocarb hydrochloride	propyl3-(dimethylamino)-propyl carbamate hydrochloride
523.	Silafluofen	(4-ethoxyphenyl) [3-(4-fluoro-3-phenoxy phenyl)-propyl] (dimethyl) silane
524.	Tebuconazole	(RS)-1-p-chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol- 1-ylmethyl)-pentan-3-ol
525.	Triflumizole	(E)-4-chloro-a,a,a-?trifluoro-N-(1-imidazol-1-yl-2- propoxyethylidene)-o-toluidine
****Added Vide Notification No. GSR 10 (E) * dated 03/01/96**		

526.	Abamectin (Vertimec)	(10E, 14E, 16E, 22Z)-(1R, 4S, 5'S, 6S, 6'R, 8R, 12S, 13S, 20R, 21R, 24S)-6'-[(S)-sec-butyl]-21,24-dihydroxy-5', 11, 13, 22 - tetramethyl -2-oxo-3, 7 19 - trioxatetetracyclo [15.6.1.14,8.020,24] pentacosa-10,14, 16,22-tetraene-6-spiro-2'-(5',6'-dihydro-2'H-pyran,)-12- yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl-a-L-arabino- hexopyranosyl)-3-O-methyl-a-L-arabino-hexopyranoside (i) mixture with (10E, 14E, 16E, 22Z)-(1R, 4S, 5'S, 6S, 6'R, 8R, 12S, 13S, 20R, 21R, 24S)-21,24-dihydroxy-6'-isopropyl-5',11,13, 22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo [15.6. 1.14,8.0 20,24] pentacosa-10,14,16,22-tetraene-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl-a-L-arabino-hexopyranosyl)-3-O-methyl-a-L-arabino-hexopyranoside (ii) (4:1)
527.	Ancymidol	a-cyclopropyl-4-methoxy-a-(pyrimidin-5-yl)benzyl alcohol
528.	Bifenox	methyl-5-(2,4-dichlorophenoxy)-2-nitrobenzoate
529.	Butralin	N-sec-butyl-4-tert-butyl-2,6-di-nitroaniline
530.	Chlorfonium Chloride	tributyl (2,4-dichlorobenzyl) phospfonium chloride
531.	Daminozide	N-dimethylaminosuccinamic acid
532.	Demeton-S-methyl	S-2-ethylthioethyl O,O-dimethyl phosphorothioate
533.	Dichlorprop	(RS)-2-(2,4-dichlorophenoxy) propionic acid
534.	Dodemorph (Meltatox)	4-cyclododecyl-2, 6-dimethylmorpholine
535.	Fludioxonil	4-(2,2-difluoro-1, 3-benzodioxol-4-yl) pyrrole-3-carbonitrile
536.	HL-Rope	Z-11-hexadecenal Z-9-hexadecenal
537.	HP-Rope	22/EZ-7, 11-hexadecadien-1-yl-acetate; Z-11-hexadecenal; Z-9-hexadecenal
538.	Lufenuron	(RS)-1-(2,5-dichloro-4-(1,1,2,3,3,3 hexaf luoropropoxy)-phenyl)-3-(2,6-difluorobenzoyl)-urea
539.	Metamitron	4-amino-4,5-dihydro-3-methyl-6-phenyl-1,2,4-triazin-5- one
540.	Mepiquat chloride	1,1-dimethyl-piperidinium chloride
541.	Naproamide	(RS)-N, N-diethyl-2-(1-naphthylenyloxy) propionamide
542.	Oxadiargyl	5-tert-butyl-3-[2,4-dichloro-5-(prop-2 ynyloxy)phenyl]-

		oxadiazol-2 (3H)-one
543.	Gossyplure (PB Rope-L)	a 1:1 mixture of (Z,Z)-and (Z, E)-hexadeca-7,11-dien-1-yl acetate
544.	Paclobutrazol	(2RS, 3RS)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl) pentan-3-ol
545.	Phenmedipham	methyl 3-(3-methylcarbaniloyloxy) carbanilate
546.	Propyzamide	3,5-dichloro-N-(1,1-dimethylpropynyl) benzamide
547.	Pymetrozine	(E)-4,5-dihydro-6-methyl-4-(3-pyridylmethyleneamino)- 1,2,4-triazin-3(2H)-one
548.	Thiourea (Thiocarbamide)	Thiourea
549.	Triacontanol	1-hydroxytriacontane
550.	Triflumizole	(E)-4-chloro-a,a,a?-trifluoro-N-(1-imidazol-1-yl-2-propoxyethylidene) -o-toluidine
551.	Triticonazole	(+)-(E)-5-(4-chlorobenzylidene)-2,2-dimethyl-1-(1H)- 1,2,4-triazol-1-ylmethyl) cyclopentanol
552.	Uniconazole	(E)-(RS)-1-(4-chlorophenyl)-4,4-demethyl-2-(1H-1,2,4- triazol-1-yl) pent-1-en-3-ol
553.	(Z)-hexadec-11-enal (Z-11-Hexadecenal)	(Z)-hexadec-11-enal
**** Added Vide Notification No. GSR 538 (E) * dated 21/11/96**		
554.	Acrinathrin	(S)-a-cyano-3-phenoxybenzyl (z)-(1R, 3S)-2,2-dimethyl-3-[2-(2,2,2-trifluoro-1-trifluoromethylethoxy carbonyl) vinyl] cyclopropanecarboxylate
555.	Cyanophos	O-4-cyanophenyl O,O-dimethyl phosphorothioate
556.	Fluqinconazole	3-(2,4-dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl) quinazolin-4 (3H)-one
557.	Tebufenozide	N-tert-butyl-N′-(4-ethylbezoyl)-3,5 dimethyl benzohydrazide
558.	Transfluthrin	2,3,5,6-tetrafluorobenzyl (1R, 3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
559.	Triflumizole	(E)-4-Choloro-a,a,a-trifluoro-N-(1-imidazol-1-yl-2- propoxyethylidine)- O-toluidine
**** Added Vide Notification No. GSR (621) E * dated 27/10/97**		
560.	Alanycarb	ethyl (Z)- N-benzyl-N-[[methyl(1-methylthioethylideneamino-oxycarbonyl]amino]thio]-b-alaninate.

**** Added vide Notification No. GSR 621 (E) * dated 27/10/97**		
561.	Beta-cyfluthrin	(RS)-a-cyano-4-fluoro-3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR) 3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate
562.	Beta-cypermethrin	A reaction mixture comprising two enantiomeric pairs in ratio about 2:3 (S)-a-cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate and (R)-a-cyano-3phenoxybenzyl (1S)-cis-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropanecarboxylate with (S)-a-cyano-3-phenoxybenzyl (1R)-trans-3-(2,2,dichlorovinyl)-2, 2 dimethylcyclopropanecarboxylate and (R)-a-cyano-3-phenoxybenzyl (1S)-trans-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate
563.	Bupirimate	5-butyl-2-ethylamino-6-methylpyrimidin-4- yldimethylsulfamate
564.	Chlorfenapyr	4-bromo-2-(4-chlrorophenyl)-1- ethoxymethyl-5- trifluoromethyl pyrrole-3-carbonitrile
565.	Cyhalofop-butyl	butyl (R)-2-[4-(4-cyano-2-fluorophenoxy) phenoxy] propionate
566.	Desmedipham	ethyl 3-phenylcarbamoyloxyphenylcarbamate
567.	Epoxiconazole	(2RS, 3SR)-1[3-(2-chlorophenyl)-2,3-epoxy-2-(4- fluorophenyl)propyl]- 1H-1,2,4-triazole
568.	Ethofumesate	(+)-2-ethoxy-2,3-dihydro-3,3-dimethyl benzofuran-5-yl methanesulfonate
569.	Famoxadone	3-anilino-5-methyl-5-(4- phenoxyphenyl)-1,3- oxazolidine-2,4- dione
570.	Fenezaquin	4-tert-butylphenethyl quinazolin-4-yl ether
571.	Fluoroacetamide	2-Fluoroacetamide
572.	Flurtamone	(RS)-5-methylamino-2-phenyl-4 (a,a,a-trifluoro-m-tolyl) furan-3(2H)-one
573.	Flufenacet (Fluthiamide)	4'-fluoro-N-isopropyl-2-(5-trifluoromethyl- 1,3,4- thiadiazol-2-yloxy) acetanilide
574.	Halosulfuron-methyl	methyl 3-chloro-5-(4,6-dimethoxypyrimidin-2- ylcarbamoylsulfamoyl)- 1-methylpyrazole-4-carboxylate
575.	Heptenophos	7-chlorobicyclo[3,2,0)]hepta-2,6-dien-6-yl dimethylphosphate
576.	Cyanamide (Hydrogen cyanamide)	carbamic acid nitrile

577.	Indoxacarb	methyl (S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl) indeno[1,2-e] [1,3,4]oxadiazin-2-ylcarbonyl]-4'-(trifluoromethoxy) carbanilate
578.	Fluazolate*	1-methylethyl 5-4-bromo-1-methyl-5-(trifluoromethyl)-1H-pyrazole-3-yl-2-chloro-4-flurobenzoate
	*	Ammended vide GSR no. 181(E) dated 13/03/2001
579.	Isouron	3-(5-tert-butylisoxazol-3-yl)-1,1-dimethylurea
580.	Karanjin	Karanjin (isolated from Ponqamia glabra)
581.	Methoxyfenozide	N-tert-butyl-N'-(3-methoxy-o-toluoyl)-3,5-xylohydrazide
582.	Propaquizafop	2-isopropylidene-oxyethyl (R)-2-[4-(6-chlorquinoxalin-2-yloxy) phenoxy] propionate
583.	Pyrithiobac-sodium	Sodium 2-chloro-6-(4,6-dimethoxypyrimidin-2-ylthio) benzoate
584.	Spinosad	A mixture of 2R, 3aR, 5aR, 5bS, 9S, 13S, 14R, 16aS, 16bR)-2-(6-deoxy-2,3,4-tri-O-methyl-a-L-mannopyranosyloxy)- 13-(4-dimethylamiuno-2,3,4,6-tetradeoxy-b-D-erythopyranosyloxy)-9-ethyl -2,3,3a,5a,5b,6,7,9,10,11,12,13,14, 15,16a,16b-hexadecahydro-14-methyl-1H-8-oxacyclododeca[b]as-indacene-7,15-dione and (2S, 3aR,5aS, 5bS, 9S, 13S, 14R, 16aS, 16bS)-2-(6-deoxy-2,3,4 O-methyl-a-L-mannopyranosyloxy)-13-(4-dimethylamino- 2,3,4,6-tetradeoxy-b-D-erythopyranosyloxy)-9-ethyl-2,3,3a,5a,5b,6,7,9,10, 11,12,13,14,15, 16a,16b-hexadecahydro-4,14-dimethyl-1H-8-oxacyclododeca[b]as-indacene-7,15-dione in the proportion 50-95% to 50-5%
585.	sulfosulfuron	N-(4,6-dimethoxy 2-pyrimediryl)-2-ethylsulfonylimidazol 1, 2apyridine-3 sulfonamide 1-(4,6-dimethoxy pyrimidin-2-yl)-3-(2-ethyl sulfonylimidazo [1,2-a]pyridin-3-yl)sulfonylurea
586.	Sulfonite	lithium perfluoro octane sulfonate
587.	Triflumuron	1-(2-chlorobenzoyl)-3-(4-trifluoromethoxyphenyl) urea
Added vide notification No. G.S.R. 224 (E) dated 26.03.99		
588.	Bacillus subtilis	Bacillus subtilis cohn
589.	Gliocladium Species	Gliocladium Spp
590.	Pseudomonas Spp	Pseudomonas spp

591.	Trichoderma Species	Trichoderma spp.
592.	Beauveria bassiana	Beauveria bassiana
593.	Metarrhizium anisopliae	Metarrhizium enisopliae var acridum
594.	Nomuraea rileyi	Nomuraea rileyi
595.	Verticillium lecanii	Verticilium lecanii
596.	Grannulosis Viruses (GV)	Grannulosis Viruses (GV)
597.	Nuclear Polyhedrosis Viruses (NPV)	Neodiprion sertifer NPV and Neodiprion lecontei NPV
Added vide notification No. G.S.R. 672 (E) dated 28.09.99		
598.	Acetamiprid	(E)-N1-[(6-chloro-3-pyridyl)-methyl]N2-cyano-N1-methyl acetamidine
599.	Acetochlor	2-chloro-N-ethoxymethyl-6'-ethylaceto-o-toluidide
600.	Acibenzolar-S-methyl	S-methyl benzo [1,2,3] thiadiazole-7-carbothioate
601.	Azoxystrobin	methyl (E)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yl-oxy]phenyl}-3-methoxyacrylate
602.	Carpropamid	A mixture of (1R,3S)-2,2-dichloro-N-[(R)-1-(4-chlorophenyl)ethyl]-1-ethyl-3-methyl cyclopropanecarboxamide, (1S, 3R)-2,2-dichloro-N-[(R)-1-(4-chlorophenyl)ethyl]-1-ethyl-3-methylcyclopropanecarboxamide (1S, 3R)-2,2-dichloro-N-[(S)-1-(4-chlorophenyl) ethyl-1-ethyl-3-methylcyclopropanecarboxamide, and (1R, 3S)-2,2-dichloro-N-[(S)-1-(4-chlorophenyl)ethyl] -1-ethyl methylcyclopropanecarboxamide where the first two cited comprises at least 95% of the total.
603.	Dithiopyr	S,S'-dimethyl-2-difluoromethyl-4-isobutyl-6-tri-fluoromethylpyridine-3, 5-dicarbothioate
604.	Emamectin benzoate	A mixture containing 90% of (10E, 14E, 16E, 22Z)-(1R, 4S, 5'S, 6S, 6'R, 8R, 12S, 13S, 20R-21R, 24S)-6'-[(S)-sec-butyl]-21,24-dihydroxy-5'11,13,22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo 15E,1,14.8020.24] pentacosa-10,14,16,22-tetraene-6-spiro-2-(5,6'-dihydro-2'H-pyran)-12-yl-dideoxy-3-O-methyl-4-O-(2,4,6-trideoxy-3-O- methyl-4-methylamino-a-L-lyxo-hexopyranosyl)-a-hexopyranoside and 10% of (10E, 14E, 16E, 22Z)-(1R, 4S, 5'S, 6S, 6'R, 8R, 12S, 13S, 20R, 21R, 21(S)-21,24-dihydroxy-6'-isopropyl-5'11,13,22- tetramethyl-2-oxo-3,7, 19-trioxatetracyclo[1,6,1,14.8.020.24]pentacosa-

		10,14,16,22-tetraene- 6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl,2,6-adeoxy-3- O-methyl-4-O- (2,4,6-trideoxy-3-O-methyl-4-methylamino-a- L-lyxo- hexopyranosyl)- a-L-arabino-hexopyranoside
605.	Epoxyconazole	(2RS, 3SR)-1-[3-(2-chlorophenyl)-2,3-epoxy-2-(4- fluorophenyl)propyl]- 1H-1,2,4-triazole
606.	Efgostim	It is a mixture of ATCA (N-acetyl-thiazolidin-4-carboxylic acid) and folic acid in the ratio of 50:1
607.	Imazaquin	(RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)- 3-quinoline-3- carboxylicacid
608.	Imiprothrin	A mixture containing 20% of 2,5-dioxo-3-prop-2- ynylimidazolidin-1-ylmethyl (1R, 3S)-2,2- dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate and 80% of 2,5-dioxo- 3-prop- 2-ynylimidazolidin-1-ylmethyl (1R, 3S)- 2,2-dimethyl-3-(2- methylprop-1- enyl)cyclopropanecarboxylate
609.	Metazachlor	2-chloro-N-(pyrazol-1-ylmethyl)acet-2'.6'-xylidide
610.	Pencycuron	1-(4-chlorobenzyl)-1-cyclopentyl-3-phenylurea
611.	Potassium Phosphonate	H KO - P - OK O
612.	Sodium-Aciflourfan	sodium 5-(2-chloro-a,a,a-trifluoro-p-tolyloxy)-2- nitrobenzoate
613.	Sulfentrazone	2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl- 5- oxo-1H-1,2,4-triazol-1-yl)methanesulfonanilide
614.	Thiamethoxam	3-(2-chloro-thiazol-5-ylmethyl)-5-methyl- 1,3,5 oxadiazinan-4-ylidene(nitro)amine
615.	Thifluzamide	2', 6'-dibromo-2-methyl-4'trifluoromethoxy-4- trifluoromethyl-1,3-thiazole-5-carboxanilide
616.	Thiocyclamhydrogen oxalate (Thiocyclam)	N,N-dimethyl-1,2,3-trithian-5-ylaminehydrogenoxalate
617.	Tolyfluanid	N-dichlorofluoromethylthio-N', N'-dimethyl-N-p- tolylsulfamide
Added vide notification No. G.S.R. 868 (E) dated 15.11.2000		
618.	Extract of Cymbopogan	Monoterpenes

	Species	
619.	Fenpyroximate	tert-butyl (E)-a-(1,3-dimethyl-5-phenoxypyrazol-4-ylmethyleneamino-oxy)-p-toluate
620.	Metalaxyl-M	methyl-N-(methoxyacetyl)-N-(2,6-xylyl)-D-alaninate
621.	Novaluron	(±)-1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoromethoxyethoxy)-phenyl]-3-(2,6-difluorobenzoyl)urea
622.	Quizalofop-P-tefuryl	(±)-tetrahydrofurfuryl-(R) - 2[4-(6-chloroquinoxalin-2-yloxy)-phenoxy]propionate
623.	S-Metolachlor	A mixture of (a RS, 1S)-2-chloro-6'-ethyl-N-(2-methoxy-1-methyl ethyl)aceto-o-toluidide and (a RS, 1R)-2-chloro-6'-ethyl-N-(2- methoxy-1-methyl ethyl) aceto -o-toluidide in the proportion 80- 100% to 20-0%
Added vide notification No. G.S.R. 69 (E) dated 5th February, 2001		
624.	Hirsutella species	
Added vide notification No. G.S.R. 291 (E) dated 19/04/2002		
625.	Imazapic	(+)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methylnicotinic acid
626.	Dimethanamid	(RS)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N--(2- methoxy-1-methylethyl)acetamide
627.	Carfentrazone ethyl	ethyl (RS) -2-chloro-3-[2-chloro-5-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-IH-1,2,4-triazol-1-yl-4-fluorophenyl]- propionate
628.	Oryzalin	3,5-dinitro-N4, N4-dipropylsulfanilamide
629.	BAS 625H (Clefoxydim)	2-{1-[2-(4-chlorophonexy)propoxyimino]-butyl}-3-hydroxy-5-thian-3-ylcyclohex-2-enone
630.	Tepraloxydim (Aramo)	(EZ)-(RS)-2-{1-[(2E)-3-chloroallyloxyimino]propyl}-3- hydroxy-5-perhydropyran-4-ylcyclotex-2-en-1-one
631.	Benfuresate	2,3-dihydro-3,3-dimethylbenzofuran-5- yl-ethanensulfonate
632.	Chlorthal-dimethyl	tetrachloro-terapthalic acid (other name dimethyl tetrachloroterephthalate)
633.	Terallethrin (Knockthrin-M-108)	(RS)-3-allyl-2-methyl-4-oxo-cyclopent-2-enyl 2,2,3,3-tetramethyl cyclopropanecarboxylate
634.	Rimsulfuron	1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-ethylsulfonyl-2-pyridiylsulfonyl) urea

635.	Uniconazole-P	(E)-(S)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4- triazol-ylpent-1-en-3-ol
636.	Diniconazole	(E)-(RS)-1-(2,4-dichlorophenyl)-4,4-dimethyl-2-1H-1,2,4-triazol-1-yl)pent-1-en-3-ol
637.	Dimethyl Phthalate	1,2-benzenedicarboxylic acid
638	Procymidone	N-(3,5-dichlorophenyl)-1,2-dimethylcycylopropane-1,2-dicarboximide
639.	Tolclofos-methyl	O-2,6-dichloro-p-tolyl O,O-dimethylphosphorothioate
640.	Cyclosulfamuron	1-[2-(cyclopropyl carbonyl)phenyl sulfamoyl]-3-(4,6-dimethoxypyrimidin-2-yl) urea
641.	Imazamox	(RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl-5-methoxymethylnicotinic acid
642.	Metconazole	(1RS, 5RS, 1RS, 5SR)-5-(4-chlorobenzyl) -2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl) cyclopentanol
643.	Thiazopyr	methyl 2-difluoromethyl-5-(4,5 dihidro-1,3-thiazol-2-yl)-4-isobutyl-6-trifluromethylnicotinate
644.	Sodium-P Nitrophenolate	---
645.	Forchlorfenuron	1-(2-chloro-4-pyridyl)-3-phenyl urea
646.	Thiacloprid	
647.	Fentrazamide	4-(2-chlorophenyl)-N-cyclohexyl-N-ethyl-4,5-dihydro-5- oxo-1H-tetrazole-1-carboxamide
648.	Hexaflumuron	1-[3,5-dichloro-4-(1,1,2,2-tetrafluoroethoxy) phenyl]-3-(2,6-difluobenzoyl) urea
Added vide notification No. G.S.R. 772 (E) dated 18th November, 2002		
649.	Fenamidone	(S)-1-anilino-4-methyl-2-methylthio-4-phenylimidazolin-5-one
650.	Flutriafol	(RS) - 2,4'-diluoro-alpha-(1H-1,2,4-triazol-1-ylmethyl) benzhydryl alcohol
651.	Bifenazate	isopropyl 3-(4-methoxybiphenyl-3yl) carbazate
652.	Pyriproxyfen	4-phenoxyphenyl (RS)-2(2-pyridyloxy) propyl ether
653.	Ipovalicarb	isopropyl 2-methyl-1-[(1-p-tolylethyl) carbamoyl] -(S)-proplycarbamate
654.	Clothianidin	(E)-1(2-chloro-1, 3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine
655.	Mesosulfuron-methyl	methyl 2-[3-(4,6-dimethoxy pyrimidin-2-yl) ureido-sulfonyl]-4-methane sulfon-amidomethyl benzoate

656.	Iodosulfuron-methyl-sodium	methyl-4-iodo-2[3-(4-methoxy-6-methyl-1,3,5-triazin-2- yl)-ureidosulfonyl benzoate sodium salt.
657.	Etridiazole	ethyl 3-trichloromethyl-1,2,4-thiadiazol-5-yl-ether
658.	Milbemectin	A mixture of (10E, 14E, 16E, 22Z) (1R, 4S, 5'S, 6R,8R, 13R, 20R, 21R, 24S) 21,24-dihydroxy-5'6', 11,13,22 - pentamethyl 3,7,19-trioxatelracyclo {15.6.1.14.8 20.24} 0 pentacosa -10,14,16,22-tetraene-6 spire-2-tetrahydropyran-2-one and (10E,14E,16E,22Z)-(1R,4S,5. S,6R,6. R,8R,13R,20R,21R,24S)-3,7,19-trioxatetracyclo[15.6.1.14.8 0 20.24 pentacosa-] 10,14,16,22-tetraene-6-spiro-2 ' - tetrahydropyran-2-one in the ration 3 to 7
659.	Pyraclostrobin	methyl N-(2-{[1-(4-chloro-phenyl)-1H-pyrazol-8-yl]oxy methyl} phenyl) N-methoxy carbamate
660.	Trifloxysulfuron-sodium	N[(4,6-dimethoxy-2-2pyrimidinyi) cabamoyll-3-(2,2,2-trifluoro ethoxy)-pyridin-2-sulfonamice Sodium salt.
661.	Naptalam	N-1-naphthylphthalamic acid
662.	Dimethipin	2,3-dihydro-5,6-dimethyl-1,4-dithi-ine 1,1,4,4--tetraoxide
663.	Ethyl butyl acetyl amino Propionate	Ethyl butyl acetyl amino propionate
664.	Phenothrin[(1R)-trans-isomer](d-phenothrin)	3-phenoxybenzyl (1RS,3RS; 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropane carboxylate
665.	SZ1-121 (Flufenzine)	3-(2-chlorophenyl)-6-(2,6-difluorophenyl)-1,2,4,5- tetrazine.
666.	Bronopol	2-bromo-2-nitropropane-1,3-diol.
Added vide notification No. G.S.R. 378 (E) dated June 24th, 2004		
667.	Pyraflufen-ethyl	Ethyl-2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl pyrazol-3-yl)-4-fluorophenoxy acetate
668.	Isoxaben	N-[3-(1-ethyl-1-methylpropyl)isoxazol-5-yl]-2,6 dimethoxybenzamide
669.	Imazosulfuron	1-(2-chlorolmidazo[1,2-a]pyridin-3-ylsulfonyl)-3(4,6- dimethoxy-pyrimidin-2-yl)Urea
670.	Spiromesifen	3-mesityl-2-oxo-1-oxaspiro(4,4)-non-3-en-4-yl-3,3- dimethyl butanoate
671.	Fenoxanil	N-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy)propion amide (R,S)-and (RR) and (S,R)-and (S,S)
672.	Bioresmethrin	5-benzyl-3-furylmethyl(+)trans Chrysanthemate
673.	d-Tetramethrin	Cyclohex-1-en-1,2-dicarboxy midomethyl-cis-trans chrysanthemate
674.	d-phenothrin	3-phenoxybenzyl-(+)-cis, trans chrysanthemate

675.	Verticilium chlamydosporium	-
676.	Acibenzolar-S-methyl	Ethyl-2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl pyrazol-3-yl)-4-fluorophenoxy acetate
677.	Streptomyces griseoviridis	-
678.	Streptomyces lydicus	-
679.	Ampelomyces quisqualis	-
680.	Candida oleophila	-
681.	Fusarium oxysporum (non pathogenic)	-
682.	Burkholderia cepacia	-
683.	Coniotyrium minitans	-
684.	Agrobactarium radiobacter strain 84	-
685.	Agrobactarium tumefaciens	-
686.	Pythium oligandrum	-
687.	Erwinia amylovora (Hairpin protein)	-
688.	Phlebia gigantean	-
689.	Plaecilomyces lilacinus	-
690.	Penicillium islanidicum (for groundnut)	-
691.	Alcaligenes spp.	-
692.	Chaetomium globosum	-
693.	Aspergillus niger-strain AN27	-
694.	VAM-Vesicular arvescular mycorrhijal (Fungus)	-
Added vide notification No. G.S.R. 198 (E) dated 31st March, 2005		
695.	Fenbuconazole	4-(4-Chlorophenyl)-2-phenyl-2-(1H-1,2,4-triazol-1- ylmethyl)butyronitrile
696.	Ipconazole (Isomer mixture)	-(IRS, 2SR,5RS: 1 RS, 2 SR, 5 SR)-2-(4-Chlorobenzyl)-5-isoproyl-1-(1H-1,2,4-triazole-l-ylmethyl) cyclopentanol
697.	Amicarbazone	4-amino-N-tert-butyl-4,5-dihydro-3-isopropyl-5-oxo- 1,2,4-1H triazole-1-carboxamide

698.	Clethodim	(+)-2-{(E)-1-{E)-3 chloro allyloxyimino} Propyl}-5-{2-(ethylthio)-propyl}-3-hydroxy cyclohex-2-enone
699.	Hymexazol	5-methylizoxazol-3-ol
700.	Flucarbazone Sodium	4,5-dihydro-3-methoxy-4-methyl-5-oxo-N-(2-trifluro methoxy phenyl-sulfonyl)-1H-1,2,4-triazole-1- carboxamide, sodium salt
701.	Flumioxazin	N-(7-fluoro-3,4-dihydro-3-oxo-4-prop-2-ynyl-2H-1,4- benzoxazin-6-yl)cyclohex-1-ene-1,2-dicarboxamide
702.	Metofluthrin	2,3,5,6 Tetrafluro-4-(methoxy methyl)benzyl(EZ)- (IRS, 3RS, IRS,3 SR)-2,2 dimethyl-3-(Prop-1-enyl) cyclopropane carboxylate
703.	Pyridalyl	2,6-dichloro-4(3,3-dichloro allyloxy) phenyl 3-[5-trifluoro methyl]-2-pyridyloxy propyl ether
704.	Metaflumizone	(E+Z)-2-[2-(4-cyanophenyl)-1-(3-trifluoromethyl phenyl) ethylidene]-N-(4-trifluoromethoxy phenyl) hydrazine carboxamide
705.	Trifloxystrobin	Methyl(E) methoxyimino-{(E)-a-{1-(a,a,a,-trifluoro-m--tolyl) ethyl ideneamine oxy}-o-tolyl}acetate
706.	Oxymatrine	(plant derived pesticide- sophora flavescens)
707.	Bispyribac-Sodium	Sodium 2,6-bis (4,6-dimethoxy pyrimidin-2-yloxy) benzoate
708.	Muscalure	(Z)-tricos-9-ene
709.	Acifluorfen	5-(2-chloro-1-1-1-trifluoro-p-tolyloxy)-2-nitrobenzoic acid
710.	Reduced azadirachtin(s)	[Active Ingredient(s) dihydroazadirachtin (Chemical code 121702), and tetrahydroazadirachtin]
Added vide notification No. G.S.R. 651(E) dated 31st October, 2005		
711.	Petroleum derived spray oil	Produced by distillation at >310^0 C and refinement of crude mineral oil. It is the combination of largely aliphatic hydrocarbon both saturated and unsaturated, the content of the latter being reduced by refinement.
Added vide notification No. G.S.R. 51(E) dated 6th February, 2006		
712.	Pinoxaden	2,2-dimethyl-propanoid acid 8-(2,6-diethyl 4-methyl phenyl)-9-oxo-1,2,4,5-tetrahydro-9H-Pyrazolo [1,2-d][1,4,5] oxadiazepine-7-yl ester
713.	Dinotefuran	(RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl) guanidine
714.	Flubendiamide	N1 -[1,1-dimethyl-2(methyl sulfonyl) ethyl]-3-iodo-N-{4-[1,2,2,2-tetrafluoro-l-trifluoromethyl)ethyl}-0-tolyl}phthalamide
715.	Triptericium of wilferdii Hook GTW - Plant extact	Glycosides having Triptolide, Tripdiolide and Tripterolide

716.	Lepimectin (E-237)	Mixture of (10E,14E,16E,22Z)-(IR,4S,5'S,6R,6'R,8R,12R,13S,20R,21R,24S), -21,24-dihydroxy-5',6',11,13,22 - pentamethyl-12-[(2Z)-2 methoxyimino-2-phenylacetoxy]-5',6',11,13,22-pentamethyl-3,7,19-trioxatetracyclo[15.6.1.14,8 .020,24] pentacosa-10,14,16,22-tetraene-6-spiro-2'-tetrahydro-pyran-2-one (E-241) and (10E,14E,16E,22Z)-(IR,4S,5'S,6R,6'R,8R,12R,13S,20R, 21R,24S), -6'-ethyl-21,24-dihydroxy-12-[(2Z)-2 methoxyimino-2-phenylacetoxy]-5',11,13,22-tetramethyl-3,7,19-trioxatetracyclo[15.6.1.14,8 .020,24] pentacosa-10,14,16,22-tetraene-6-spiro-2'-tetrahydro-pyran-2-one (E-909) in the ratio of <20 to> 80
717.	Ethiprole	(+)-5-amino-1-(2,6-dichloro-alpha, alpha, alpha, trifluoro-p-tolyl)-4-ethyl-sulfinyl pyrazole-3-carbonitrile
718.	Mycothecirem Verrucaria	-
719.	Tetraconazole	(RS)-2-(2,4-dichlorophenyl)-3-(1H,1,2-4-triazole -I-yl) propyl 1,1,2,2-tetrafluoroethyl ether
720.	Hydramethylnon	5,5-dimethyl-perhydro pyrimidin-2-one-4-trifluoromethyl = a- (4-trifluoromethyl styryl) cinnamyliderehydrazone
721.	Bitterbarkomycin	(Plant extract of Apocynum Venetum) 1a, 2a, diacetoxyl-8A,15 dissobutyl acyloxyl-9a-benzyloxy-4A; 6A dihydroxy-A-dihydrolignaloefuran
722.	Benalaxyl -M	Methyl -N(Phenylacetyl)- N-(2,6-xylyl -D-alaninate
723.	Sulfuryl Fluoride	-
724.	Thifensulfuron-methyl	3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl carbamoylsulfamoyl) =thiophen-2-carboxylic acid
725.	Nicosulfuron	2-(4,6,-dimethoxy pyrimidin-2-ylcarb amoyl sulfamoyl)-N,N-dimethyl=nicotinamide - (4,6,-dimethoxy pyrimidin-2-yl)- 3 - (3-dimethylcarbamoyl-2-pyridyl=sulfonyl)urea
726.	Rotenone	(2R, 6as, 12 as)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen-6-one
727.	Diflufenican	2',4'-difluoro-2-(a,a,a-trifluoro-m-tolyloxy) nicotinanilide
728.	Photorhabdus luminescences akhurustii Strain K-I	-
729.	Serratia marcescens GPS 5 (Bacteria)	-
730.	Squamocin	Seed extract of Plant 'Annona squamosa Linn' (Custard apple)
Added vide notification No. G.S.R. 683(E) dated 31st October, 2006		
731.	Flonicamid	N-cyanomethyl-4-(trifluoromethyl)nicotinamide
732.	Fluazifop-p-butyl	Butyl(R)-2-{4-[5-(trifluoromethyl)-2-

		pyridyloxy]phenoxy}propionate
733.	Flazasulfuron	1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-trifluoromethyl-2- pyridyl sulfonyl)urea
734.	Cyazofamid	4-chloro-2-cyano-N,N-dimethyl-5-p-olylimidazole- sulfonamide
735.	Fluazinam	3-chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-a,a,a- trifluoro-2,6-dinitro-p-toluidine
736.	Boscalid	2-chloro-N-(4-chloro-biphenyl-2-yl)nicotinamide
737.	1-MCP	1-Methylcyclopropene
738.	Propoxycarbazone-sodium	2-[(4-methyl-5-oxo-3-propoxy-4,5-dihydro-[1,2,4,]triazole-carbonyl)-sulfamoyl]-benzoicacid methylester, sodium salt
739.	Isoxaflutole	5-cyclopropyl-4-(methanesuphonyl-4-trifluoro- metylbenzoyl)-isoxazole
740.	Fluopicolide	2,6-dichloro-N-[3-chloro-5-(trifluoromethyl)-2-pyridylmethyl]benzamide
741.	Aclonifen	2-chloro-6-nitro-3-phenoxyaniline
742.	Azimsulfuron	1-(4,6-dimethoxyprimidin-2-yl)-3-[1-methyl-4-(2- methyl-2H-tetrazole-5-yl)pyrazol-5-ylsulfonyl]urea
743.	Zoxamide	(RS)-3,5-dichloro-N-(3-chloro-1-ethyl-1-methyl-2- oxopropyl)-p-toluamide
744.	Tribenuron methyl	2-[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoyl-sulfamoyl]benzoic acid
745.	Thifensulfuron methyl	Methyl-3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoyl sulfamoyl)thiophene-2-carboxylate
746.	Prothiofos	O-2,4-dichlorophenyl-O-ethyl S-propyl phosphorodithioate
747.	Penoxsulam	2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4]triazolo[1,5-c]pyrimidin-2-yl)-6- (trifluoromethyl)benzenesulfonamide
748.	Omethoate	O,O-dimethyl S-methylcarbamoylmethyl phosphorodithioate
749.	Piriformospora indica	a plant root colonizing basidiomycete fungus
750.	Mepiquat Pentaborate	N,N dimethylpiperidinium pentaborate
751.	Sulcotrione	2-[2-chloro-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione
752.	Flumorph	4-[3-(3,4-dimelthoxyphenyl)-3-(4-fluorophenyl)acryloyl]morpholine1H-1,2,4-triazole-1- ethanole
753.	SYP 1620	N-methyl 2-[2-((((4-(2,6 dichloro-phenyl)-3-butenylidene-2-yl)amino)oxy)methyl)-phenyl]-2- methoxyiminoacetamide

754.	Metominostrobin	(E)-2-methoxyimino-N-methyl-2-(2-phenoxyphenyl)acetamide
755.	Empenthrin	(E)-(RS)-ethynyl-2-methylpent-2-enyl(1R;3RS;1R,3SR)2,2-dimethyl-3-(2methyl=prop-1- enylcyclopropanecarboxylate
756.	Pyridaben	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin- 3(2H)-one---------
Added vide notification No. G.S.R. 631(E) dated 28th September, 2007		
757.	Chromafenozide	2'-tert-butyl-5'-methyl-2'-(3,5-xyloyl)chroman-6- carbohydrazide
758.	Orthosulfamuron	1-(4,6-dimethoxypyrimidin-2-yl)-3-[2-(dimethylcarbamoyl)phenylsulfamoyl] urea
759.	6-Benzylaminopurine	N-phyenylmethyl-1 H-purin-6-amine (6-benzylaminopurine)
760.	Hexamethyldisilazane	Hexamethyldisilazane, reaction product with silica
761.	Kresoxim-Methyl	Methyl(E)-methoxyimino-[2-(0-tolyloxymethyl)phenyl] acetate
762.	Spirotetramat	Carbonic acid 3-(2,5-dimethyl-phenyl)-8-methoxy-2-oxo-1-aza-spiro[4.5]dec-3-en-4-yl ester ethyl ester
763.	Mandipropamid	2-(4-chloro-phenyl)-N-[2-(3-methoxy-4-pro-2-ynyloxy- phenyl0-ethyl]-2-prop-2-ynyloxy-acetamide
764.	Chlorantraniliprole	3-Bromo-N-[4-chloro-2-methyl-6-(methylcarbamoyl) phenyl]-1-(3-chloropyridin-2-yl)-1 H-pyrazole-5- carboxamide
765.	Prodiamine	5-dipropylamino-a,a,a-trifluoro-4,6 dinitro-0-toluidine; 2,6-dinitro-N1,N1-dipropyl-4 trifluoromethyl-m-Phenylenediamine
766.	Fomesafen	5-[2-chloro-4-(trufluoromethyl) Phenoxy] -N-(methylsulfonyl)-2-nitrobenzene)
767.	Topramezone	3-(4,5-dihydro-isoxazol-3-yl)-4-methanesulfonyl-2-methylphenyl)-(5-hydroxyl-1-methyl-1H-pyrazol-4-yl)methanone
768.	Pyribenzoxim	Diphenylmethanone 0-[2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoyl]oxime
769.	n-Heneicosane	CH3- CH2- CH2- C18 H37
770.	Formetanate hydrochloride	3-dimethylaminomethylene aminophenyl methylcarbamate hydrochloride
Added vide notification No. G.S.R. 650(E) dated 11th September, 2008		
771.	Fluridone	1-methyl-3-phenyl-5-(oc, oc, oc-trifluoro-m-tolyl)-4-pyridone
772.	Tebuthiuron	1-(5-tert-butyl-1, 3, 4-thiadiazol-2-yl)-1, 3-dimethylurea
773.	Trinexapac-Ethyl	Ethyl 4-cyclopropyl (hydroxyl) methylene- 3, 5-

		dioxocyclohexane carboxylate
774.	Thidiazuron	1-phenyl-3-(1, 2, 3-thiadiazol-5-yl) urea
775.	Isoxathion	0, 0-diethyl 0-5-phenyl isoxazol-3-yl phosphororhioate
776.	Eucalyptus leaf extract	Containing 1, 8 cineole (eucalyptol)
Added vide notification No. G.S.R. 799(E) dated 19th November, 2008		
777.	Imibenconazole	S-(4-chlorobenzyl)n-(2, 4-dichlorophenyl)-2-(1H-1,2,4-triazole-1-yl) actamidothiates
778.	Cyclanilide	1(2, 4-dichlorophenyl) amino (carbonyl) cyclo-propane carboxylic acid
779.	Flucetosulfuron	(1RS, 2RS: 1SR; 2SR)-1-3[4,6-dimethoxyprimidin-2-ylcarbamoyl) sulfamoyl]-2-pyridyl)-2- fluoropropyl methoxyacetate.
Added vide notification No. G.S.R. 384(E) dated 4th June, 2009		
780.	Metamifop	Propanamide, (R)-2[-4-[(6-chloro-2-benzoxazolyl) oxy] phenoxy]-N-(2-flurophenyl)-N-methyl.
781.	Fluthianil	Z)-2-[2-fluoro-5-(trifluoromethyl) phenylthio]-2-[3-(2-methoxyphenyl)-1,3-thiazolidin-2-ylidene]acetonitrile.
782.	Valifenalate (Modified vide Notification No. G.S.R. 908(E) dated 29th Dec., 2011)	Methyl N-(isopropoxycarbonyl)-L-valyl-(3RS)-3-(4-chlorophenyl)-B-alaninate
783.	Tolfenpyrad	4-chloro-3ethyl-1-methyl-N[4-(p-tolyloxy)benzyl] pyrazole-5-carboxamide.
784.	Fenbutatin Oxide	Bis[tris(2-methyl-2phenyl propyl) tin] oxide.
785.	Meptyl Dinocap	2,4-dinitro-6-(1-methyl heptyl)phenyl chrotonate.
786.	Aminopyralid	4-Amino-3,6-dichloropyridine-2-carboxylic acid.
787.	Diclosulam	N-(2,6-dichlorophenyl)-5-ethoxy-7-fluoro-[1,2,4] triazolo[1,5-c]pyrimidine-2-sulfonamide.
Added vide notification No. G.S.R. 5(E) dated 5th January, 2010		
788.	Pethoxamid	2-chloro-N-(2-ethoxyethyl)-N-(2-methyl-1-phenylprop-1-enyl)acetamide.
789.	Penthiopyrad	(RS)-N-{2-1,3-Dimethylbutyl)-3-thienyl}-1-methyl-3-(trifluoromethyl).
790.	Imazamethabenz-methyl	Mixture of (+/-)-6-(4-Isopropyle-4-Methyl-5-oxo-2-Imidazolin-2-yl)-m-Toluate and Methyl (+/-)-2-(4-Isopropyle-4methyl-5-oxo-2-Imidazoldin-2-yl)-p-toluate.
791.	Aminocyclopyrachlore	6-Amino-5-chloro-2-Cyclopropyl-Pyrimidine-4-Carboxylic acid, Methyl Ester.

792.	Gamma Cyhalothrin	(s) α-cyno-3-phenoxybenzyl(Z)-(IR,3R)-3-(2-Choloro-3,3,3-trifuloroprop-1-enyl=2,2-dimethylcyclopropanecarboxylate.
793.	Cyflumetofen	2-methoxyethyl (RS)-2-(4 tert butyly phenyl)-2-Cyano-3-Oxo-3-(α,α,α trifluro-o-tolyl) propionate.
794.	Cyantraniliprole	1H-pyrnzole-5-Carboxamid 3-brome-1-(3-Chloro-2 pyridinyl)-n-[4-cyano-2-methyl-6-(methyl amino carbonyl)] phenyl (9 CL).
795.	Ametoctradin	5-ethyl-6-octyl [1,2,4]triazolo [1,5-a] pyrimidin-7-amine .
796.	picoxystrobin	Methyl (E) 3-methoxy 2-{2-[6-(trifluoromethyl)-2-pyridloxymethyl]phenyl} acrylate.
797.	Metralenone	3'-bromo-2,3,4,6'-tetramethoxy-2', 6-dimethyl benzophenone".
Added vide notification No. G.S.R. 316(E) dated 13th April, 2010		
798.	Pyroxsulam	N-(5,7-dimethoxy [1,2,4] triazolo[1,5-a] pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl) Pyridine-3-Sulfonamide.
799.	Propisochlor	2 chloro-6'-ethyl-N-isopropoxymethylaceto-toluidide .
800.	Orysastrobin	(2E)-2-(methoxyimino)-2-{2-[(3E,5E,6E)-5-(methoxymino)-4,6-dimethyl -2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-Phenyl} -N-methyl acetamide.
801.	Sulfoxaflor	[1-[6-(trifluoromethyl) pyridine-3yl]ethyl]methyl (oxido)-λ4-Sulfanylidene cyanamide.
802.	Siduron	1-(2-methylcylohexyl)-3-phenyl urea.
803.	Spinetoram	Major component3'ethoxy 5,6-dihydro spinosynJ-minor component3'ethoxy spinosynL.
804.	Diamuron	1-(1-methyl-1-phenyl ethyl)-3-p-tolyl urea.
805.	Simetryn	N2,N4-diethyl-6-methylthio-1,3,5-triazine-2,4-diamine.
Added vide notification No. G.S.R. 764(E) dated 15th September, 2010		
806.	Penflufen	2'-[(RS)-1,3-dimethylbutyl]-5-fluoro-1,3- dimethylpyrazole-4-carboxanilide .
807.	Tembotrione	2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl] cyclohexane-1,3-dione .
808.	Indaziflam	N-[(1R,2S)-2,3-dihydro-2,6-dimethyl-1H-inden-1-yl]-6- [(1RS)-1-fluoroethyl]-1,3,5-triazine-2,4-diamine .
809.	Proquinazid	6-iodo-2-propoxy-3-propylquinazolin-4(3H)-one.
810.	Hymexazole	5-methylisoxazol-3-Ol.
811.	Fluopyram	N-{2-[3-chloro-5-(trifluoromethyl)-2-pyridyl]ethyl}-α,α,α-trifluoro-o-toluamide.

812.	Metrobromuron	3-(4-bromophenyl)-1-methoxy-1-methyl urea.
813.	Fluensulfone	5-chloro-1,3-thiazol-2yl, 3,4,4-trifluorobut-3-en-1-yl-sulfone.
814.	Imidaclothiz	1-(5-chloro-2-thiazolyl methyl)-N-nitro-imidazolidin-2-ylideneamine.
815.	Niclosamide	2',5-dichloro-4'-nitro salicylanilide.
Added vide notification No. G.S.R. 400(E) dated 25th May, 2011		
816.	Orbencarb	s-2-Chlorobenzyl diethylthiocarbemate
817.	Prosulfocarb	s-benzyldipropylthio carbamate
818.	Amisulbrom	3-(3-bromo-6-fluoro-2-methylindol-1-ylsulfonyl)-N,N- dimethyl-1H-1,2,4-triazol-1-sulfonamide
819.	Cyflufenamid	(Z)-N-[a-(Cyclopropyl methoxyimino)-2,3-difluro-6-(trifluoromethyl)(benzyl)]=2 phenyl actamide
820.	Piperalin	3-[(RS),2=Methylpiperidino] propyl 3,4-diechlorobenzoate
Added vide notification No. G.S.R. 380(E) dated 24th May, 2012		
821.	Theta- Cypermethrin	[1α(S*),3β]-(+)-cyano(3-phenoxyphenyl)methyl 3-(2,2- dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
822.	Pyroxasulfone	3-[(5-difluromethoxy)-1-methyl-3-(trifluromethyl) pyrazol- 4-ylmethylsulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole
823.	Pyrifluquinazon	1-acetyl-1,2,3,4-tetahydro-3-[(3-pyridylmethyl)amino]-6- [1,2,2,2-tetrafluoro-1-(trifluoomethyl)ethyl]quinazolin-2-one
824.	Cyenopyrafen	(E)-2-(4-tert-butylphenyl)-2-cyano-1-(1,3,4-trimethylpyrazol-5-yl)vinyl 2,2-dimethylpropionate
825.	Prohexadione Calcium	Calcium 3-oxido-5-oxo-4-propionylcyclohex-3- enecarboxylate
826.	Saflufenacil	(N'-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-(trifluoromethyl)3,6-dihydro-1(2H)-pyrimidinyl)benzyl]-N-methylsulfamide)
827.	Fluxapyroxad	3-9difluoromethyl)-1-methyl-N-(3',4',5'-trifluorobiphenyl- 2-yl)pyrazole-4-carboxamide
828.	Etoxazole	(RS)-5-tert-butyl-2{2-(2,6-difluorophenyl)-4,5-dihydro-1,3- oxazol-4-ylphenetole
829.	Bistrifluron	1-[2-chloro-3,5-bis(trifluoromethyl)phenyl]-3-(2,6- difluiorobenzoyl)urea
830.	Flupyradifurone	4-[(6-chloro-3-pyridylmethyl)(2,2-difluoroethyl)amino]furan-2(5H)-one

831.	Beflubutamid	(RS)-N-benzyl-2-(α,α,α,4-tetrafluoro-m- tolyloxy)butyramide
832.	Flutolanil	α,α,α-trifluoro-3′-isopropoxy-o-toluanilide
833.	Nitenpyram	(E)-N-(6-chloro-3-pyridylmethyl)-N-ethyl-N′-methyl-2- nitrovinylidenediamine
834.	Pyriftalid	(RS)-7-(4,6-dimethoxypyrimidin-2-ylthio)-3-methyl-2- benzofuran-1(3H)-one
Added vide notification No. G.S.R. 446(E) dated 28th June, 2013		
835.	Oxathiapiprolin	1-(4-{4-[(5RS)-5-(2,6-difluorophenyl)-4,5-dihydro-1,2-oxazol-3-yl]-1,3-thiazol-2-yl}-1-piperidyl)-2-[5-methyl-3- (trifluoromethyl)-1H-pyrazol-1-yl]ethanone
836.	Tefuryltrione	2-{2-chloro-4-mesyl-3-[(RS)-tetrahydro-2-furylmethoxymethyl]benzoyl}cyclohexane-1,3-dione
837.	Mesotrione	2-(4-mesyl-2-nitrobenzoyl)cyclohexane-1,3-dione
838.	Flumetralin	N-(2-chloro-6-fluorobenzyl)-N-ethyl-α,α,α-trifluoro-2,6- dinitro-p-toluidine
839.	Flurochloridone	a mixture of the enantiomeric pairs (3RS,4RS;3RS,4SR)-3- chloro-4-chloromethyl-1-(α,α,α-trifluoro-m-tolyl)-2-pyrrolidone (isomers in the ratio 3:1)
840.	American Wormseed Oil, Chenopodium Oil, ECANA and ECANA Mimic	Extract of Chenopodium ambrosioides near ambrosioides and extract of chenopodium ambrosioides near ambrosioides (Mimic)
841.	Quizalofop-P-ethyl	Ethyl (2R)-2-[4-(6-chloroquinoxalin-2-yloxy) phenoxy]propionate
Added vide notification No. G.S.R. 313(E) dated 6th May, 2014		
842.	Metazosulfuron	1-{3-chloro-1-methyl-4-[(5RS)-5,6-dihydro-5-methyl-1,4,2- dioxazin-3-yl]pyrazol-5-ylsulfonyl}-3-(4,6-dimethoxypyrimidin-2-yl)urea
843.	Spearmint (Mentha Spicata) Oil containing L-Carvon, Limonin and Pines	Spearmint Extract
844.	Quinmerac	7-chloro-3-methylquinoline-8-carboxylic acid
845.	Bispyribac-Acid	2,6-bis[(4,6-dimethoxy-2-pyrimidinyl)oxy]benzoic acid
846.	Triflumezopyrim	3,4-dihydro-2,4-dioxo-1-(pyrimidin-5-ylmethyl)-3-(α,α,α-

		trifluoro-m-tolyl)-2H-pyrido[1,2-a]pyrimidin-1-ium-3-ide
847.	Renofluthrin	2,3,5.6-Tetrafluoro-4-(methoxymethyl)benzyl 3-(2,2- dichlorovinyl)-2,2-dimethylcyclopropane carboxylate
848.	Benzobicyclon	3-(2-chloro-4-mesylbenzoyl)-2-phenylthiobicyclo[3.2.1]oct- 2-en-4-one
849.	Dimethyl disulphide (DMDS)	Dimethyl disulphide
850.	N-acetylthiazolidine-4-carboxylic acid (NATCA)	N-acetylthiazolidine-4-carboxylic acid(NATCA)
Added vide notification No. G.S.R. 111(E) dated 20th February, 2013		
851.	Zeta-cypermethrin	CAS Name: (S)-cyano (3-phenoxyphenyl)methyl (+/-)cis/trans 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate IUPAC Name: (S)-a-cyano-3-phenoxybenzyl-(1R)cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate or (S)-a-cyano-3-phenoxybenzyl (1RS,3RS,1SR, 3SR)-3-(2,2-dichlorovinyl)- 2,2-dimethylcyclopropanecarboxylate
852.	Florasulam	CAS Name: N-(2,6-difluorophenyl)-8-fluoro-5-methoxy [1,2,4]triazolo[1,5-c]pyrimidine-2-sulfonamide IUPAC Name: 2’,6’,8-trifluoro-5-methoxy[1,2,4]triazolo[1,5-c]pyrimidine-2-sulfonanilide
853.	Triafamone	CAS Name:N-[2-[(4,6-dimethoxy-1,3,5-triazin-2-yl) carbonyl]-6-fluorophenyl]-1,1-difluoro-N-methylmethanesulfonamide IUPAC Name: 2’-[(4,6-dimethoxy-1,3,5-triazin-2-yl) carbonyl]-1,1,6’-trifluoro-N-methylmethanesulfonanilide
854.	Difenacoum	CAS Name:3-[3-(1,1'-biphenyl)-4-yl-1,2,3,4-tetrahydro-1- naphthalenyl]-4-hydroxy-2H-1-benzopyran-2-one IUPAC Name: 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1- naphthyl)-4-hydroxycoumarin

855.	Bacterial Extract (Physiological Extract of Bacteria and species of Blue Green Algae) Glutamic Acid content as 'Marker'	Extract of bacterial species viz. Bacillus subtillis, Pseudomonas straita and Azotobacter chroococcum with extract of species of Blue green Algae "A. platensis"
856.	Profoxydim	CAS name: 2-[1-[[2-(4-chlorophenoxy) propoxy]imino] butyl]-3-hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)-2- cyclohexen-1-one IUPAC Name: (5RS)-2-{(EZ)-1-[(2RS)-2-(4-chlorophenoxy) propoxyimino]butyl}-3-hydroxy-5-[(3RS)- thian-3-yl]cyclohex-2-en-1-one
857.	Brassinolide	(3aS,5S,6R,7aR,7bS,9aS,10R,12aS,12bS)-10-[(2S,3R,4R,5S)-3,4-Dihydroxy-5,6-dimethyl-2-heptanyl]- 5,6-dihydroxy-7a,9a-dimethylhexadecahydro-3H- benzo[c]indeno[5,4-e]oxepin-3-one
Added vide notification No. G.S.R. 790(E) dated 11th November, 2014		
858.	Ipfencarbazone	CAS Name: 1-(2,4-dichlorophenyl)-N-(2,4-difluorophenyl)-1,5-dihydro-N-(1-methylethyl)-5-oxo-4H- 1,2,4-triazole-4-carboxamide IUPAC Name: 1-(2,4-dichlorophenyl)-2′,4′-difluoro-1,5-dihydro-N-isopropyl-5-oxo-4H-1,2,4-triazole-4-carboxanilide
859.	Fluthiacet-methyl	CAS Name: [[2-Chloro-4-fluoro-5-[(tetrahydro-3-oxo-1H,3H-[1,3,4]thiadiazolo[3,4-a]pyridazin-1-ylidene) amino] phenyl] thio] acetic acid methyl ester IUPAC Name: methyl 2-[2-chloro-4-fluoro-5-[(3-oxo-5,6,7,8-tetrahydro-[1,3,4]thiadiazolo[3,4-a]pyridazin-1- ylidene)amino]phenyl]sulfanylacetate
860.	Afidopyrofen	CAS Name: [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6, 6a,12,12a, 12b- decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3- pyridinyl)-2H,11H-naphtho[2,1-b] pyrano[3,4-e]pyran-4- yl]methyl cyclopropanecarboxylate IUPAC Name: [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-(cyclopropylcarbonyloxy)-1,2,3,4,4a,5,6,6a,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3- pyridyl)-11H,12H-benzo[f]pyrano[4,3-b]chromen-4-

		yl]methyl cyclopropanecarboxylate
861.	Isopyrazam	CAS Name: 3-(difluoromethyl)-1-methyl-N-[1,2,3,4-tetrahydro-9-(1-methylethyl)-1,4-methanonaphthalen- 5-yl]- 1H-pyrazole-4-carboxamide IUPAC Name: mixture of 2 syn-isomers 3-(difluoromethyl)-1-methyl-N-[(1RS,4SR,9RS)-1,2,3,4- tetrahydro-9-isopropyl-1,4-methanonaphthalen-5- yl]pyrazole-4-carboxamide and 2anti-isomers 3- (difluoromethyl)-1-methyl-N-[(1RS,4SR,9SR)-1,2,3,4- tetrahydro-9-isopropyl-1,4-methanonaphthalen-5- yl]pyrazole-4-carboxamide
862.	Sedaxane	CAS Name: N-[2-[1,1'-bicyclopropyl]-2-ylphenyl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide IUPAC Name: mixture of 2 cis-isomers 2'-[(1RS,2RS) - 1,1'-bicycloprop-2-yl]-3-(difluoromethyl) -1-methylpyrazole-4-carboxanilide and 2 trans-isomers 2'- [(1RS,2SR)-1,1'-bicycloprop-2-yl]-3-(difluoromethyl)-1- methylpyrazole-4-carboxanilide
863.	Solatenol	N-[(1RS,4SR)-9-(Dichloromethylidene)-1,2,3,4-tetrahydro- 1,4-methaanonaphthalen-5-yl]-3-(diffluromethyl)-1-methyl-1H-pyrazole-4-carboxamide
864.	Fosthiazate	CAS Name: O-ethyl S-(1-methylpropyl) P-(2-oxo-3- thiazolidinyl)phosphonothioate IUPAC Name: (RS)-[S-(RS)-sec-butyl O-ethyl 2-oxo-1,3- thiazolidin-3-ylphosphonothioate] or (3RS)-3-[(RS)-sec-butylthio(ethoxy)phosphinoyl]-1,3- thiazolidin-2-one
865.	Halauxifen -methyl	CAS Name: methyl 4-amino-3-chloro-6-(4-chloro-2-fluoro- 3-methoxyphenyl)-2-pyridinecarboxylate IUPAC Name: methyl 4-amino-3-chloro-6-(4-chloro-2- fluoro-3-methoxyphenyl)pyridine-2-carboxylate or methyl4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)picolinate

866.	Matrine	IUPAC Name: (7aS,13aR,13bR,13cS)-dodecahydro-1H,5H,10H-dipyrido[2,1-f:3′,2′,1′-ij][1,6]naphthyridin-10- one
867.	2-phenylphenol	CAS Name: [1,1′-biphenyl]-2-ol IUPAC Name: biphenyl-2-ol
868.	Poly-D-Glusamine	Poly-(1,4)-2-amino-2-deoxy-B-D-Glucan
869.	Polyoxin(Polyoxin-B,Polyoxin-D, Polyoxin-AL	CAS Name: 5-[[2-amino-5-O-(aminocarbonyl)-2-deoxy-L-xylonoyl]amino]-1-(5-carboxy-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-1,5-dideoxy-β-D-allofuranuronic acid IUPAC Name: 5-(2-amino-5-O-carbamoyl-2-deoxy-L-xylonamido)-1-(5-carboxy-1,2,3,4-tetrahydro-2,4-dioxopyrimidin-1-yl)-1,5-dideoxy-β-D-allofuranuronic acid
870	Polyoxorim	CAS Name: 5-[[2-amino-5-O-(aminocarbonyl)-2-deoxy-L-xylonoyl]amino]-1-(5-carboxy-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-1,5-dideoxy-β-D-allofuranuronic acid IUPAC Name: 5-(2-amino-5-O-carbamoyl-2-deoxy-L-xylonamido)-1-(5-carboxy-1,2,3,4-tetrahydro-2,4-dioxopyrimidin-1-yl)-1,5-dideoxy-β-D-allofuranuronic acid
Added vide notification No. S.O. S.O. 3385(E) dated 27th October, 2016		
871	Copper sulfate (tribasic)	CAS/CAS RN No. 1333-22-8 IUPAC NAME: cupric sulfate-tricupric hydroxide CAS NAME: copper hydroxide sulfate
872	Benzovindiflupyr	CAS/CAS RN No. 1072957-71-1 IUPAC NAME: N-[(1RS,4SR)-9-(dicholromethylene)-1,2,3,4,- tetrahydro-1,4-methanonaphthalen-5-yl]-3(difluoromethyl)-1-methylpyrazole-4-carboxamide CAS NAME: N-[9-(dichloromethylene)-1,2,3,4-tetrahydro-1,4- methanonaphthalen-5-yl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide
873	Propisochlor	CAS/CAS RN No. 86763-47-5 IUPAC NAME: 2-chloro-6′-ethyl-N-isopropoxymethylacet-o-toluidide CAS NAME: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1-methylethoxy)methyl]acetamide

874	Oxine copper	CAS/CAS RN No. 10380-28-6 IUPAC NAME: bis(quinolin-8-olato-O,N)copper(II) or cupric 8-quinolinoxide CAS NAME: bis(8-quinolinolato-κN1,κO8)copper
875	Trifludimoxazin	CAS/CAS RN No. 1258836-72-4 IUPAC NAME: 1,5-dimethyl-6-thioxo-3-(2,2,7-trifluoro-3,4-dihydro-3- oxo-4-prop-2-ynyl-2H-1,4-benzoxazin-6-yl)-1,3,5-triazinane-2,4-dione CAS NAME: dihydro-1,5-dimethyl-6-thioxo-3-[2,2,7-trifluoro-3,4- dihydro-3-oxo-4-(2-propyn-1-yl)-2H-1,4-benzoxazin-6-yl]-1,3,5- triazine-2,4(1H,3H)-dione
876	Nitrobenzene	CAS/CAS RN No.98-95-3 IUPAC NAME:Nitrobenzene CAS NAME:Nitrobenzene
877	Spirodiclofen	CAS/CAS RN No. 148477-71-8 IUPAC NAME: 3-(2,4-dichlorophenyl)-2-oxo-1- oxaspiro[4.5]dec-3-en- 4-yl 2,2-dimethylbutyrateCAS NAME: 3-(2,4-dichlorophenyl)-2-oxo-1- oxaspiro[4.5]dec-3-en-4-yl 2,2-dimethylbutanoate
878	Pyriofenone	CAS/CAS RN No. 688046-61-9 IUPAC NAME: (5-chloro-2-methoxy-4-methyl-3- pyridyl)(4,5,6-trimethoxy-o-tolyl)methanone CAS NAME: (5-chloro-2-methoxy-4-methyl-3- pyridinyl)(2,3,4-trimethoxy-6-methylphenyl)methanone
879	Broflanilide	CAS/CAS RN No. 1207727-04-5 IUPAC NAME: 6'-bromo-α,α,α,2-tetrafluoro-3-(N-methylbenzamido)- 4'-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]benz-o-toluidide CAS NAME: 3-(benzoylmethylamino)-N-[2-bromo-4-[1,2,2,2- tetrafluoro-1-(trifluoromethyl) ethyl]-6-(trifluoromethyl) phenyl]-2- fluorobenzamide
880	Tiadinil	CAS/CAS RN No. 223580-51-6 IUPAC NAME: 3'-chloro-4,4'-dimethyl-1,2,3-thiadiazole-5- carboxanilide CAS NAME: N-(3-chloro-4-methylphenyl)-4-methyl- 1,2,3-thiadiazole-5-carboxamide
881	N-Methylene phosphoic chitosan	CAS/CAS RN No. 228566-31-2 IUPAC NAME: N-Methylene Phosphoic Chitosan CAS NAME: N-Methylene Phosphoic Chitosan
882	Prothioconazole	CAS/CAS RN No. 178928-70-6 IUPAC NAME: (RS)-2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)- 2-hydroxypropyl]-2,4-dihydro-1,2,4-triazole-3-thione CAS NAME: 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2- hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione
883	Fluoxastrobin	CAS/CAS RN No. 361377-29-9 IUPAC NAME: (E)-{2-[6-(2-chlorophenoxy)-5-fluoropyrimidin-4- yloxy]phenyl}(5,6-dihydro-1,4,2-dioxazin-3-yl)methanone Omethyloxime CAS NAME: (1E)-(2-{[6-(2-chlorophenoxy)-5-fluoro-4-pyrimidinyl]oxy}phenyl)(5,6-dihydro-1,4,2-dioxazin-3-

		yl)methanone Omethyloxime
884	Tetraniliprole	CAS/CAS RN No. 1229654-66-3 IUPAC NAME: 1-(3-chloro-2-pyridyl)-4′-cyano-2′- methyl-6′- methylcarbamoyl-3-{[5-(trifluoromethyl)-2H-tetrazol-2-yl]methyl}pyrazole-5-carboxanilide CAS NAME: 1-(3-chloro-2-pyridyl)-N-[4-cyano-2- methyl-6- [(methylamino) carbonyl]phenyl]-3-{[5-(trifluoromethyl)-2H-tetrazol-2- yl]methyl}-1H-pyrazole-5-carboxamide
885	Tefluthrin	CAS/CAS RN No. 79538-32-2 IUPAC NAME: 2,3,5,6-tetrafluoro-4-methylbenzyl (1RS,3RS)-3-[(Z)-2- chloro-3,3,3-trifluoroprop-1-enyl]-2,2-dimethylcyclopropanecarboxylate or 2,3,5,6-tetrafluoro-4-methylbenzyl (1RS)-cis-3-[(Z)-2-chloro-3,3,3- trifluoroprop-1-enyl]-2,2-dimethylcyclopropanecarboxylate CAS NAME: (2,3,5,6-tetrafluoro-4-methylphenyl)methyl (1R,3R)-rel-3- [(1Z)-2-chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2- dimethylcyclopropanecarboxylate
886	Meperfluthrin	CAS/CAS RN No. 915288-13-0 IUPAC NAME: 2,3,5,6-tetrafluoro-4-(methoxymethyl)benzyl(1R,3S)-3- (2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate or 2,3,5,6-tetrafluoro-4-(methoxymethyl)benzyl(1R)-trans-3-(2,2- dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate CAS NAME: [2,3,5,6-tetrafluoro-4-(methoxymethyl)phenyl]methyl (1R,3S)-3-(2,2- dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
887	Fluroxypyr-meptyl	CAS/CAS RN No. 81406-37-3 IUPAC NAME: (RS)-1-methylheptyl [(4-amino-3,5- dichloro-6-fluoro-2-pyridinyl)oxy]acetate CAS NAME: 2-butoxy-1-methylethyl[(4-amino-3,5- dichloro-6-fluoro-2- pyridinyl)oxy]acetate
888	Isofetamid	CAS/CAS RN No. 875915-78-9 IUPAC NAME: N-[1,1-dimethyl-2-(4-isopropoxy-o-tolyl)-2-oxoethyl]- 3-methylthiophene-2-carboxamide CAS NAME: N-[1,1-dimethyl-2-[2-methyl-4-(1-methylethoxy)phenyl]- 2-oxoethyl]-3-methyl-2-thiophenecarboxamide
889	Acequinocyl	CAS/CAS RN No. 57960-19-7 IUPAC NAME: 3-dodecyl-1,4-dihydro-1,4-dioxo-2- naphthylacetate CAS NAME: 2-(acetyloxy)3-dodecyl-1,4-naphthalenedione
890	Calcium copper sulphate/ Copper calcium sulphate	CAS/CAS RN No. 8011-63-0 IUPAC NAME: A mixture, with or without stabilizing agents, of calcium hydroxide and copper (II) sulfate CAS NAME: Bordeaux mixture
Added vide notification No. S.O. S.O. 3304(E) dated 06 October, 2017		

891	Dimethenamid-p	(S)-2-chloro-N-{2,4-dimethyl-3-thienyl}-N-{2-methoxy-1-methylethyl}acetamide
892	Tri-basic copper sulphate	Copper (II) hydroxide sulphate
893	Cyclaniliprole	2,3-dibromo-4-chloro-1-(3-chloro-2-pyridyl)-6-[{(1RS)-1- cyclopropylethyl}carbamoyl] pyrazole-5-carboxanilide
894	Florpyrauxifen-benzyl *Modified vide Notification No. S.O. 954(E) dated 2nd March, 2020	4-amino-3-chloro-6-[4-chloro-2-fluro-3-methoxyphenyl]-5-fluro- 2- pyridine carboxylic acid
895	4,5-dichloro-2-n-octyl-3-(2H)- isothiazolone(DCOIT)	4,5-dichloro-2-n-octyl-3-(2H)-isothiazolone
896	Simeconazole	{RS}-2-[4-fluorophenyl]-1-[1H-1,2,4-triazol-1-yl]-3- [trimethylsilyl]propan-2-ol
897	Pydiflumetofen	3-[difluromethyl]-N-methoxy-methyl-N[1-methyl-2-{2,4,6- tricholorophenyl}ethyl]-1H-pyrazole-4-carboxamide
898	Phosphonic acid OR Potassium Phosphonate(mixture of Mono Potassium and Di Potassium Salts of Phosphonic Acid)	i. Potassium hydrogenphosphonate ii. Dipotassium phosphonate IUPAC-Potassium hydrogen phosphonate
899	3-iodo-2-propynyl Butylcarbamate (IPBC)	3-iodoprop-2-ynylbutylcarbamate(IPBC)/3-iodo-2-propyn- 1-yl N- butylcarbamate
900	Mefentrifluconazole	(2RS)-2-[4-(4-chlorophenoxy)-α, α, α-trifluoro-0-tolyl]1-(1H- 1,2,4-triazol-1-yl)propan-2-ol/α-[4-(4-chlorophenoxy)-2- (triflurомethyl)phenyl]- α-methyl-1H-1,2,4-triazole-1-ethanol
901	Bis(1-hydroxy-2(1H)-pyridinethionato-o,s)-(T-4)zinc (ZPT) also known as –Zinc pyrithione	13.1.3b.zinc bis (2-thiolpyridine-N-oxide)
Added vide notification No. S.O. 45 (E) dated 02 January, 2019		
902	Bixafen	N-(3’,4’-dichloro-5-fluorobiphenyl-2-yl)-3-(difluoromethyl)- 1-methyl -1H-pyrazole-4-carboxamide
903	Fluazaindolizine	8-chloro-N-[(2-chloro-5-methoxyphenyl)sulfonyl]-6-(trifluoromethyl)imidazo[1,2-a]pyridine-2- carboxamide
904	Fluindapyr (New fungicide)	3-(difluoromethyl)-N-[(3RS)-7-fluoro-2,3-dihydro-1,1,3-trimethyl-1H-inden-4-yl]-1-methylpyrazole-4-carboxamide
905	Tolpyralate	(RS)-1-{1-ethyl-4-[4-mesyl-3-(2-methoxyethoxy)-o-toluoyl]pyrazol-5-yloxy}ethyl methyl carbonate

906	Spiropidion	3-(4-chloro-2,6-dimethylphenyl)-8-methoxy-1-methyl-2-oxo-1,8-diazaspiro[4.5]dec-3-en-4-yl ethyl carbonate
907	Fluxametamide	4-[(5RS)-5-(3,5-dichlorophenyl)-4,5-dihydro-5-(trifluoromethyl)-1,2-oxazol-3-yl]-N-[(EZ)-(methoxyimino)methyl]-o-toluamide
908	Flupyrimin	[N(E)]-N-[1-[(6-chloro-3-pyridinyl)methyl]-2(1H)-pyridinylidene]-2,2,2-trifluoroacetamide
909	Dimefluthrin	2,3,5,6-tetrafluoro-4-(methoxymethyl)benzyl (1RS,3RS:1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate
910	Ethaboxam	(RS)-N-(α-cyano-2-thenyl)-4-ethyl-2-(ethylamino)-1,3-thiazole-5-carboxamide
911	Pyrazoxyfen	2 [4-(2,4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone
912	Dichlormid	N,N- diallyl-2,2-dichloroacetamide
913	Lancotrione Sodium	Sodium 2-{2-chloro-3-[2-(1,3-dioxolan-2-yl)ethoxy]-4-mesylbenzoyl}-3-oxycyclohex-1-en-1-olate
914	Benzpyrimoxan	5-(1,3-dioxan-2-yl)-4-[4-(trifluoromethyl) benzyloxyl]pyrimidine
Added vide notification No. S.O. 1767 (E) dated 16 May, 2019.		
915	Flumetsulam	CAS : N-(2,6-difluorophenyl)-5-methyl[1,2,4]triazolo[1,5-a]pyrimidine-2-sulfonamide IUPAC : 2',6'-difluoro-5-methyl[1,2,4]triazolo[1,5-a]pyrimidine-2-sulfonanilide
916	Cloransulam-methyl)	methyl 3-chloro-2-(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5- c]pyrimidin-2-ylsulfonamido)benzoate; methyl 3-chloro-N-(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5- c]pyrimidine-2-ylsulfonyl)

917	Pyrapropoyne	1H-pyrazole-4-carboxamide, N-[(2Z)-2-[3-chloro-5-(2-cyclopropyethynyl) -2-pyridinyl]-2 -[(1 – methylethoxy)imino]ethy]-3-(difluoromethyl)-1-methyl
918	Isocycloseram	4-[(5RS)-5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)isoxazol-3-yl]-N-[(4RS)-2-ethyl-3-oxoisoxazolidin-4-yl]-o-toluamide
919	Dimethametryn	N-(1,2-dimethylpropyl)-N-ethyl-6-methylthio-1,3,5-triazine-2,4-diamine
920	Allyl isothiocyanate	1-propene-3-isothiocyanate
921	Fenpropimorph	(±)-cis-4-[3-(4-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine
922	Thiencarbazone-methyl	methyl 4-[(4,5-dihydro-3-methoxy-4-methyl-5-oxo-1H-1,2,4-triazol-1-yl)carbonyl=sulfamoyl]-5-methylthiophene- 3-carboxylate
923	Fluazaindolizine	8-chloro-N-[(2-chloro-5-methoxyphenyl) sulfonyl]-6-(trifluoromethyl) imidazo [1,2-a]pyridine-2-carboxamide
924	Etobenzanid	2,3-dichloro-4-ethoxymethoxybenzanilide
925	Tebufenpyrad	N-(4-tert-butylbenzyl)-4-chloro-3-ethyl-1-methylpyrazole-5-carboxamide
926	Chlorine Dioxide	Chlorine Dioxide
927	OXAZICLOMEFONE	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one
928	Bixlozone	2-(2,4-Dichlorobenzyl)-4,4-dimethylisoxazolidin-3-one

929	Z11-16OH	(Z)-11-Hexadecen-1-ol
930	CYDIA	(E,E) -8, 10-Dodecadien-1-ol
931	Z9-14AC	Z-9-TETRADECENYL ACETATE
932	Z7-12Ac	Z-7 DODECENYL ACETATE
933	Z-9-HDAL	(Z)-11-Hexadecenal
934	Z-11-HDAL	(Z)-11-Hexadecenal
935	E-11-HDL	(E)-11-Hexadecen-1-ol
936	E-11-HAD	(E)-11-Hexadecenyl acetate
937	CLM	(Z, Z, E)-7,11,13-Hexadecatrienal
938	TDTA (3E, 8Z, 11Z)-3,8,11-tetradecatrien-1-yl acetate	3,8,11-tetradecatrien-1-yl acetate
939	Florylpicoxamid	1S)-2,2-bis(4-fluorophenyl)-1-methylethyl N-{[3-(acetyloxy)-4-methoxy-2-pyridyl]carbonyl}-L-alaninate
Added vide notification No. S.O. 296 (E) dated 15th January, 2020 Fenpropimorph, already exsist at S.No 921		
Added vide notification No. S.O. 2582 (E) dated 29th July, 2020		
940	Tetflupyrolimet	CAS No. 2053901-33-8 (3S,4S)-2-fluoro-1-methyl-2-oxo-4-(α,α, α- trifluoro-p-tolyl)pyrrolidine-3-carboxanilide
941	Fluoxapiprolin	CAS No. 1360819-11-9 2-{(5RS)-3-[2-(1-{[3,5-bis(difluoromethyl)-1H-pyrazol- 1-yl]acetyl}-4-piperidyl)thiazol-4-yl]-4,5-dihydroisoxazol-5-yl}-3-chlorophenyl methanesulfonate
942	Ipflufenoquin	CAS NO.: 1314008-27-9

		2-[(7,8-difluoro-2-methyl-3-quinolinyl)oxy]-6-fluoro-α,α-dimethylbenzenemethanol
943	Triflusulfuron methyl	CAS No. 126535-15-7 methyl 2-({[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]carbamoyl}sulfamoyl)-m-toluate
944	Tecloftalam	CAS No. 76280-91-6 2,3,4,5-tetrachloro-6-[[(2,3 dichlorophenyl)amino]carbonyl]benzoic acid
945	Dimpropyridaz	CAS No. 1403615-77-9 rac-N-ethyl-5-methyl-1-[(2R)-3-methylbutan-2-yl]-N-(pyridazin-4-yl)-1H-pyrazole-4-carboxamide
Added vide notification No. S.O. 826(E) dated 18th February, 2021		
946	Cyclobutrifluram	CAS No. 1460292-16-3 N-[2-(2,4-dichlorophenyl)cyclobutyl)-2-(trifluoromethyl) nicotinamide,80-100%(1S,2S) enantiomer. CAS name: rel-N-[(1R,2R)-2-(2,4-dichlorophenyl) cyclobutyl]-2-(trifluoromethyl)-3-pyridinecarboxamide
947	Acynonapyr	CAS No. 133283-8-17-1 3-endo-[2-propoxy-4-(trifluoromethyl) phenoxy]-9-{[5-(trifluoromethyl)-2-pyridyl]oxy}-9- azabicyclo[3.3.1]nonane CAS Name: (3-endo)-3-[2-propoxy-4-(trifluoromethyl) phenoxy]-9-[[5- (trifluoromethyl)-2-pyridinyl]oxy]-9-azabicyclo[3.3.1]nonane
948	Picarbutrazox	CAS No. 500207-04-5 Tert-butyl{6-[({(Z)-[(1-methyl-1H-tetrazol-5-yl)(phenyl) methylene] amino}oxy) methyl]-2-pyridyl}carbamate CAS Name: 1,1-dimethylethyl N-[6-[[[(Z)-[(1-methyl-1Htetrazol-5-yl)phenylmethylene] amino]oxy]methyl]-2-pyridinyl]carbamate
949	Flometoquin	CAS No. 875775-74-9 2-ethyl-3,7-dimethyl-6-[4-(trifluoromethoxy)phenoxy]-4-quinolyl methyl carbonate CAS Name: 2-ethyl-3,7-dimethyl-6-[4-(trifluoromethoxy)phenoxy]-4-quinolinyl methyl carbonate
950	Pyraziflumid	CAS No. 942515-63-1 N- (3′,4′-difluorobipheny-2-yl)-3- (trifluoromethyl)pyrazine-2-carboxamide CAS Name: N-(3′,4′-difluoro[1,1′-biphenyl]-2-yl)-3-(trifluoromethyl)-2-pyrazinecarboxamide
951	3E, 8Z TDDA	CAS No. 163041-87-0 [(3E, 8Z)-tetradeca-3,8-dienyl] acetate CAS Name- 3E, 8Z Tetradecadienyl acetate
952	Z11HDAc	CAS No. 34010-21-4 [(Z)-hexadec-11-enyl] acetate CAS Name-Z11 Hexadecenyl acetate
953	Fenpicoxamid	CAS No. 517875-34-2 [2-[[(3S, 7R, 8R, 9S)-7-benzyl-9-methyl-8-(2-methylpropanoyloxy)-2,6-dioxo-1,5-dioxonan-3-yl]carbamoyl]-4-methoxypyridin-3-yl]oxymethyl 2-methylpropanoate
954	Benzofenap	CAS No. 82692-44-2 2-{[4-(2,4-dichloro-3-methylbenzoyl)-1,3-dimethyl-1Hpyrazol-5-yl]oxy}-1-(4-methylphenyl)ethanone CAS Name-2-[[4-(2,4-dichloro-3-methylbenzoyl)-1,3- dimethyl-1H-pyrazol-5-yl] oxy]-1-(4-methylphenyl) ethanone
955	Sulfometuron methyl	CAS No. 74222-97-2 methyl 2-{[(4,6-dimethylpyrimidin-2-yl)carbamoyl]sulfamoyl}benzoate

		CAS Name-Methyl 2-[[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl] benzoate
956	Cyclopyrimorate	CAS No. 499231-24-2 [6-chloro-3-(2-cyclopropyl-6-methylphenoxy)pyridazin-4- yl] morpholine -4-carboxylate CAS Name-6-chloro-3-(2-cyclopropyl-6-methylphenoxy)pyridazin-4-yl morpholine-4-carboxylate
957	Z13-ODAc	CAS No. 60037-58-3 [(Z)-octadec-13-enyl] acetate CAS Name-Z-13-Octadecenyl acetate
958	Z13-ODOH	CAS No. 69820-27-5 (Z)-octadec-13-en-1-ol CAS Name-Cis-13-Octadecenol
Added vide notification No. S.O. 153(E) dated 11th January, 2022		
959	Tetrachlorantraniliprole	CAS number: 1104384-14-6 CAS name: 3-bromo-N-[2,4-dichloro-6-[(methylamino)carbonyl]phenyl]-1-(3,5-dichloro-2-pyridinyl)-1H-pyrazole-5-carboxamide IUPAC Name: 3-bromo-2′,4′-dichloro-1-(3,5-dichloro-2-pyridyl)-6′-(methylcarbamoyl)-1H-pyrazole-5-carboxanilide
960	Propyrisulfuron	CAS number: 570415-88-2 CAS Name.: 2-chloro-*N*-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-6-propylimidazo[1,2-*b*]pyridazine-3-sulfonamide IUPAC Name: 2-chloro-*N*-[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]-6-propylimidazo[1,2-*b*]pyridazine-3-sulfonamide
961	Anisiflupurin	CAS number: 1089014-47-0 CAS name: 2-fluoro-N-(3-methoxyphenyl)-9H-purin-6-amine IUPAC Name : 2-fluoro-N-(3-methoxyphenyl)-9H-purin-6-amine
962	Cyanogen	CAS number: 460-19-5 CAS name: Ethanedinitrile IUPAC Name: Ethanedinitrile
Added vide notification No. S.O. 1890(E) dated 19th April, 2022		
963	1, 4-dimethyl naphthalene	CAS number: 571-58-4 IUPAC Name: 1,4-dimethyl naphthalene
964	Inpyrfluxam	CAS number: 1352994-67-2 IUPAC Name: 3-(difluoromethyl)-1-methyl-N-[(3R)-1,1,3-tri methyl-2,3-dihydro inden-4-yl] pyrazole-4-carboxamide
965	Cinnamaldehyde	CAS number: 104-55-2 IUPAC Name : (E)-3-phenylprop-2-enal
966	Silthiofam	CAS number: 175217-20-6 IUPAC Name: 4,5-dimethyl-*N*-prop-2-enyl-2-trimethylsilylthiophene-3-carboxamide

967	Potassium Salts of fatty acids [C12-C18 Saturated and C18 unsaturated]	CAS number: 67701-09-1 CAS Name: Fatty acids, C8-18 and C18- unsatd., Potassium Salts
968	Plant Extract of Swinglea glutinosa	Scientific Name: Swinglea glutinosa
969	Fenmezodiatiaz	CAS number: 2246757-58-2 IUPAC Name:((3R)-3-(2-chloro-1,3-thiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3,7,8-tetrahydro[1,3]thiazolo[3,2-a]pyrimidin-4-ium-5-olate
970	Cyprodinil	CAS number: 121552-61-2 IUPAC Name: 4 cyclopropyl-6-methyl-N-phenyl pyrimidin-2-amine
971	Bacillus amyloli quefaciens (synonymous nomenclature of Bacillus velezensis)	Scientific Name: Bacillus amyloli quefaciens
972	Laminarin	CAS number: 9008-22-4 IUPAC Name: (1-3)-b-D-glucan
Added vide notification No. S.O. 3908(E) dated 18th August, 2022		
973	Flumetylsulforim	CAS number: 1616664-98-2 IUPAC Name: 5-fluoro-4-imino-3-methyl-1[(4-methylphenyl)sufonyl]- 3,4-dihydropyrimidin-2(1H)-one
974	Profluthrin	CAS number: 223419-20-3 IUPAC Name: 2,3,5,6-tetrafluoro- 4-methylbenzyl (1RS)-cis-trans-2,2- dimethyl-3-[(EZ)- prop-1- enyl] cyclopropane carboxylate
975	Quinoxyfen	CAS number: 124495-18-7 IUPAC Name: 5,7-dichloro-4-quinolyl -4-fluorophenyl ether

List of Dual / Multi-Use Insecticides as per Insecticides Schedule

1. Boric Acid
2. Eucalyptol
3. Eucalyptus Oil
4. Thiourea
5. Sodium Cyanide
6. Potassium Cyanide
7. Mono Nitro Benzene
8. 2,6-Dichloro Benzonitrile
9. Copper Cyanide
10. Yellow Phosphorus
11. Piperonyl Butoxide
12. 2-Phenyl Phenol
13. Nitrobenzene
14. Carbon Disulphide

Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations 2018

TABLE

Sl. No.	Name of the Insecticide	Food	Maximum Residue Limit (MRL) in mg/kg
(1)	(2)	(3)	(4)
1.	2,4-Dichlorophenoxy Acetic Acid	Sugarcane	0.05
		Food grains	Maize-0.05, Wheat-2 and Rice-0.1and other food grains- 0.01
		Milled food grains	0.01
		Potato	0.2
		Milk and Milk products	0.05
		Meat and Poultry	0.2
		Eggs	0.05 (shell free basis)
		Fruits	2
2.	Acephate (expressed as mixture of Methamidophos and acephate).	Rice	1
		Safflower seed	2
		Cottonseed	2
		Milk and Milk products	0.02
		Meat and Meat products	0.05
3.	Acetamiprid	Chilli	2
		Dried Chilli	20
		Rice	0.01
		Okra	0.1
		Cabbage	0.7
		Milk and Milk products	0.02
		Meat and Meat products	0.05
		Cotton seed Oil	0.1
4.	Alachlor	Cotton seed	0.05
		Groundnut	0.05
		Maize	0.1
		Soya bean	0.1
5.	Alpha cypermethrin	Cotton seed Oil	0.05
		Pine apple	0.5
6.	Alpha naphthyl Acetic Acid	Tomato	0.1
		Chilli	0.2
		Dried Chilli	2
		Mango	0.05
		Cotton seed Oil	0.05
		Grapes	0.05
		Pineapple	0.5
7.	Ametroctradin	Grapes	6
		Potato	0.05
		Cucumber	0.4
		Tomato	0.3
8.	Anilophos	Rice	0.1
9.	Atrazine	Maize	0.01
		Sugarcane	0.25
10.	Azimsulfuron	Rice	0.02*

11.	Azoxystrobin	Grapes	2
		Tomato	1
		Mango	0.7
		Chilli	1
		Dried Chilli	10
		Cucumber	0.05*
		Potato	7
		Milk and Milk products	0.01
		Cumin	0.03*
		Maize	0.03*
		Wheat	0.2
		Rice	0.03*
		Onion	0.05
12.	Benfuracarb	Red Gram	0.05
		Rice	0.05
13.	Sum of benomyl and carbendazim expressed as carbendazim	Food grains	0.5
		Milled food grains	0.1
		Vegetables	0.5
		Mango	2
		Banana (whole)	1
		Other fruits	5
		Cottonseed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Eggs	0.1 (shell free basis)
		Meat and Poultry	0.1 (carcass fat basis)
		Milk and Milk products	0.1 (F)
14.	Bensulfuron Methyl	Rice	0.01
15.	Beta Cyfluthrin	Okra	0.01*
		Brinjal	0.2
		Cotton seed	0.7
		Soya bean	0.03
		Soya bean Oil	0.01*
16.	Bifenthrin	Sugarcane	0.03
		Rice	0.05
		Apple	0.5
		Tea	30
		Cotton seed	0.5
		Milk and Milk products	0.2
17.	Bispyribac Sodium	Rice	0.05
18.	Bitertanol	Wheat	0.05
		Groundnut	0.05
		Milk and Milk products	0.05
		Meat and Meat products	0.05
		Tea	0.05*
		Apple	0.4
19.	Buprofezin	Cotton seed Oil	0.01
		Chilli	2
		Dried Chilli	20
		Mango	0.1
		Grapes	1
		Okra	0.01*
		Rice	0.05
		Milk and Milk products	0.01

20.	Butachlor	Rice	0.05
21.	Captan	Rice	0.3
		Fruit and Vegetables	Cherries-25, Grapes-25 and Melons-10, other fruits & other vegetables 15
		Black gram	0.01*
22.	Carbaryl	Sesamum	0.05
		Fish	0.2
		Food grains	Wheat-2.0 and Maize-0.02, other food grains 1.5
		Milled food grains	0.01
		Okra and leafy vegetables	10
		Potato	0.2
		Other vegetables	5
		Cotton seed (whole)	1
		Maize cob (kernels)	1
		Rice	2.5
		Maize	0.5
		Chilli	5
		Dried Chilli	50
		Citrus (Orange)	15
		Milk and Milk products	0.05
23.	Carbendazim	Food grains	Wheat-0.05, Rice-2.0 and other food grains 0.1
		Milled food grains	0.1
		Vegetables	0.5
		Mango	5
		Banana (whole)	1
		Other fruits	5
		Cotton seed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Eggs	0.1(shell free basis)
		Meat & Poultry	0.1(Carcass fat basis)
		Milk and Milk products	0.1 (F)
		Potato	0.01*
		Tea	0.5
		Grapes	3
		Rice	2*
24.	Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)	Food grains	0.10
		Milled food grains	0.03
		Fruits & Vegetables	0.10
		Oil seeds	0.10
		Sugarcane	0.10
		Meat & Poultry	0.10 (carcass fat basis)
		Milk and Milk products	0.05 (fat basis)
25.	Carbosulfan	Chilli	2
		Dried Chilli	20
		Rice	0.2
26.	Carfentrazone Ethyl	Wheat	0.01
		Rice	0.1*
		Tea	0.02*
27.	Carpropamid	Rice	1
28.	Cartap Hydrochloride	Rice	0.5
29.	Chlorantraniliprole	Bengal Gram	0.03*

		Black Gram	0.03*
		Bitter Gourd	0.03*
		Okra	0.3
		Soya bean	0.03*
		Pigeon pea	0.03*
		Tomato	0.6
		Chilli	0.6
		Dried Chilli	6
		Brinjal	0.6
		Rice	0.4
		Cabbage	2
		Sugarcane	0.5
		Cotton	0.3
		Milk and Milk products	0.05
		Meat and Meat products	0.2
		Groundnut	0.03*
		Groundnut Oil	0.03*
		Maize	0.03*
30.	Chlorfenapyr	Chilli	0.05
		Dried Chilli	0.5
		Cabbage	0.05
31.	Chlorfluazuron	Cabbage	0.1*
		Cotton seed	0.01*
32.	Chlorimuron ethyl	Rice	0.01
		Soya bean seed	0.01
		Wheat	0.05
33.	Chlormequat Chloride (CCC)	Potato	0.1
		Brinjal	0.1
		Grape	0.05*
		Cotton seed	1
34.	Chlorothalonil	Groundnut	0.1
		Potato	0.1
		Milk and Milk products	0.07
		Meat and Meat products	0.02
35.	Chlorpropham	Potato	30
36.	Chlorpyriphos	Tea	2
		Food grains	Wheat-0.5, Rice-0.5 and Food grains 0.05
		Milled food grains	0.01
		Fruits	Stawberry-0.03, Plum-0.5, Pomefruit-1.0 and other Fruits 0.5
		Potatoes and Onions	Potato-2.0, Onions 0.01
		Cauliflower and Cabbage	1
		Other vegetables	0.2
		Meat and Poultry (carcass fat)	0.1
		Milk and Milk products	0.02
		Cotton seed	0.3
		Cotton seed oil (crude)	0.05
		Carbonated Water	0.001
37.	Chlothianidin (Chlothianidin and its metabolites Thiazolymethylguanidine (TMG), Thiazolymethylurea (TZMU), Methylnitroguanidine (MNG) TMG)	Sugarcane	0.4
		Cotton seed	0.02
		Cotton seed Oil	0.02
		Rice	0.5
		Tea	0.7
		Milk and Milk products	0.02

		Meat and Meat products	0.02
38.	Chromafenozide	Rice	0.03*
39.	Cinmethylene	Rice	0.05
40.	Clodinafop-propargyl	Soya bean	0.05*
		Wheat	0.1
41.	Clomazone	Rice	0.01
		Soya bean seed	0.01
		Soya bean seed oil	0.01
42.	Copper Hydroxide (Copper determined as elemental copper)	Rice	$
		Potato	$
		Grapes	$
43.	Copper Oxychloride(Copper determined as elemental copper)	Fruit	$
		Potato	$
		Other vegetables	$
		Areca nut	$
		Cardamom	$
		Coconut	$
		Coffee	$
		Pepper	$
		Paddy	$
44.	Copper Sulphate (Copper determined as elemental copper	Coffee	$
		Cardamom	$
		Citrus	$
		Coconut	$
		Guava	$
		Papaya	$
		Pea	$
		Grapes	$
45.	Cuprous Oxide (Copper determined as elemental copper)	Paddy	$
		Potato	$
		Areca nut	$
		Chilli	$
		Citrus	$
		Coffee	$
		Grapes	$
46.	Cyantranilipole	Grapes	0.01
		Pomegranate seed	0.01
		Pomegranate Juice	0.01
		Cabbage	2
		Chilli	0.5
		Dried Chilli	5
		Tomato	0.5
		Gherkin	0.3
		Okra	0.5
		Brinjal	0.06
		Cotton seed or Cotton seed Oil	1.5
47.	Cyazofamid	Potato	0.02*
		Tomato	0.01*
		Grapes	1
48.	Cyhalofop-butyl	Rice	0.5
49.	Cymoxanil	Tomato	0.01*
		Potato	0.01
		Grapes	0.1
		Citrus	0.05*

		Gherkin	0.05*
		Cucumber	0.1
50.	Cypermethrin (sum of isomers) (Fat soluble residue)	Rice	2
		Cottonseed Oil	0.01
		Wheat grains	2
		Milled wheat grains	0.01
		Brinjal	0.2
		Cabbage	2
		Okra	0.5
		Oil seeds except groundnut	0.2
		Meat and Poultry	2
		Milk and Milk products	0.05
	(a) Alpha Cypermethrin	Cotton seed Oil	0.05
51.	Deltamethrin (Decamethrin)	Chilli	0.05
		Dried Chilli	0.5
		Red gram	0.01
		Mango	0.01
		Tea	5
		Okra	0.05
		Tomato	0.3
		Brinjal	0.3
		Groundnut	0.01*
		Cotton seed	0.1
		Food grains	2.0
		Milled food grains	Milled Food grains- 0.2 and Wheat Flour-0.3
		Rice	2.0
		Wheat	2.0
		Milk and Milk products	0.05
		Meat and Meat products	0.5
52.	Diafenthiuron	Cardamom	0.5
		Brinjal	1
		Chilli	0.05
		Dried Chilli	0.5
		Cotton seed Oil	1
		Cabbage	1
		Citrus	0.2
53.	Dichlorvos (DDVP) (content of di-chloroacetaldehyde (D.C.A.) be reported where possible)	Food grains	Wheat-7.0, Rice-7.0 and other Food grains-1
		Milled food grains	0.25
		Vegetables	0.15
		Fruits	0.1
		Milk and Milk products	0.01
		Groundnut seeds	0.05
		Groundnut Oil	0.2
		Mustard seed or Mustard Oil	0.01
54.	Diclofop (sum diclofop-methyl and diclofop acid expressed as diclofop-methyl)"	Wheat	0.1
55.	Diclosulam	Soya bean	0.05*
56.	Dicofol (sum of o,p' and p,p' isomers)"	Fruits and Vegetables	5
		Tea	40
		Chilli	1
		Dried Chilli	10
57.	Difenoconazole	Chilli	0.01
		Dried Chilli	0.1
		Rice	0.01

		Pomegranate	0.8
		Milk and Milk products	0.02
		Meat and Meat products	0.2
		Apple	0.01
		Grapes	3
		Maize	0.01*
		Wheat	0.02
		Tomato	0.2
58.	Diflubenzuron	Cotton seed	0.2
59.	Dimethoate	Mustard	0.01
		Fruits and Vegetables	2
		Chilli	0.5
		Dried Chilli	5
		Milk and Milk products	0.05
		Meat and Meat products	0.05
60.	Dimethomorph	Grapes	2
		Potato	0.05
		Cucumber	0.2
		Tomato	0.2
61.	Dinocap	Mango	0.1
62.	Dinotefuran	Rice	8
		Cotton seed Oil	0.05*
		Milk and Milk products	0.1
63.	Dithianon	Apple	0.1
64.	Dithiocarbamates(the residue tolerance limit are determined and expressed as mg/CS2/kg and refer separately to the residues arising from any or each group of dithiocarbamates)	Chilli	1
		Dry chilli	10
		Food grains	Wheat-1.0 and other Food Grains-0.2
		Milled food grains	0.05
		Potato	0.2
	(b) Ethylene bis- dithiocarbamates resulting from the use of mancozeb, maneb or zineb (including zineb derived from nabam plus zinc sulphate)	Cherries	1
		Other fruits	3
	(c) Mancozeb	Chilli	1
		Dried Chilli	10
		Cauliflower	0.02
		Groundnut	0.1
		Cumin	10
		Black pepper	2
		Mustard seed	0.1
		Gherkin	0.1*
		Onion	4
		Milk and Milk products	0.05
		Meat and Meat products	0.1
		Mango	2
		Grapes	5
		Citrus	0.05*
		Cucumber	0.4
		Tea	3
		Rice	0.5*
	(d) Metiram as CS2	Chilli	1
		Dry chilli	10
		Grapes	5
		Potato	0.2

		Tomato	5
		Groundnut seed	0.1
		Groundnut seed oil	0.1
		Milk and Milk products	0.05
		Onion	0.05*
		Apple	0.05*
		Cotton seed	0.05*
		Cotton seed Oil	0.05*
		Cumin	10
		Banana	2
		Black gram	0.05*
		Cucumber	2
		Pomegranate	0.05*
		Green gram	0.05*
	(e) Zineb as CS2	Turmeric	2
		Tea	0.1*
65.	Diuron	Sugarcane	0.02
		Cottonseed	1
		Banana	0.1
		Maize	0.5
		Citrus (Sweet Orange)	1
		Grapes	1
66.	Dodine	Apple	5
67.	Edifenphos	Rice	0.02
		Rice bran	1
		Eggs	0.01(shell free basis)
		Meat and poultry	0.02 (carcass fat basis)
		Milk and Milk products	0.01(F)
68.	Emamectin Benzoate	Cotton seed	0.02
		Cotton seed oil	0.02
		Okra	0.05
		Groundnut oil	0.05
		Milk and Milk products	0.01*
		Tea	0.01*
69.	Epoxyconazole	Ground nut oil	0.05*
		Groundnut cake	0.05*
		Maize	0.01*
		Cumin	0.01*
		coffee	0.05*
		wheat	0.01*
		Soya bean	0.05*
		Soya bean Oil	0.05*
		Rice	0.05*
70.	Ethephon	Pomegranate	0.05
		Pine apple	2
		Coffee	0.1
		Tomato	2
		Mango	2
71.	Ethion(Residues to be determined as ethion and its oxygen analogue and expressed as ethion)	Gram	0.01
		Pigeon Pea	0.01
		Soya bean Seed	0.01
		Tea	5
		Cucumber and Squash	0.5
		Other Vegetables	1
		Cottonseed	0.5

		Milk and Milk products	0.5 (F)
		Meat and Poultry	0.2 (carcass fat basis)
		Eggs	0.2 (shell free basis)
		Dry fruits	0.1 (shell free basis)
		Food grains	0.03
		Milled food grains	0.01
		Peaches	1
		Other fruits	2
72.	Ethofenprox (Etofenprox)	Rice	0.01
		Milk and Milk products	0.02
		Meat and Meat products	0.5
73.	Ethoxysulfuron	Rice	0.01
74.	Etoxazole	Brinjal	0.2
		Tea	15
75.	Famoxadone	Grapes	2
		Potato	0.05
		Tomato	2
		Gherkin	0.3
76.	Fenamidone	Potato	0.02
		Grapes	0.6
		Gherkin	0.2
		Tomato	1.5
77.	Fenarimol	Apple	5
78.	Fenazaquin	Apple	0.2
		Chilli	0.5
		Dried Chilli	5
		Okra	0.01
		Brinjal	0.01
		Tomato	0.01
		Tea	3
79.	Fenobucarb (BPMC)	Rice	0.01
80.	Fenoxaprop-p-ethyl	Cotton seed	0.02
		Black gram	0.01
		Rice	0.02*
		Wheat	0.02
		Soya bean seed	0.02
		Onion	0.05*
		Groundnut	0.01*
81.	Fenpropathrin	Brinjal	0.2
		Okra	0.5
		Chilli	0.2
		Tea	2
		Green tea	2
		Rice	0.03*
		Cottonseed oil	3
		Milk and Milk products	0.1
		Meat and Meat products	0.02
82.	Fenpyroximate	Chilli	1
		Dried Chilli	10
		Green Tea	2
		Coconut Water	0.02
		Tea	2
83.	Fenvalerate (Fat soluble residue)	Cauliflower	2
		Brinjal	2

		Okra	2
		Cotton seed	0.2
		Cottonseed Oil	0.1
		Meat and Poultry	1.0 (carcass fat basis)
		Milk and Milk products	0.01 (F)
84.	Fipronil	Cotton seed Oil	0.01
		Rice	0.01
		Chilli	0.01
		Dried Chilli	0.1
		Sugarcane	0.01
		Cabbage	0.02
		Grapes	0.01*
		Milk and Milk products	0.02
		Meat and Meat products	0.01
		Wheat	0.01*
		Onion	0.04
85.	Flonicamid	Rice	0.05*
		Cotton seed Oil	0.02*
86.	Fluazifop-p-butyl	Soya bean	0.05
		Cotton seed Oil	0.01*
		Groundnut	0.01*
		Groundnut oil	0.01*
87.	Flubendiamide	Brinjal	0.1
		Bengal Gram	1.0
		Cotton seed Oil	1.5
		Rice	0.1
		Cabbage	4
		Tomato	2
		Pigeon pea	1.0
		Black Gram	1.0
		Chilli	0.02
		Dried Chilli	0.2
		Milk and Milk products	0.1
		Tea	50
		Soya bean	0.07
		Soya bean Oil	0.07
		Soya bean cake	0.07
88.	Fluchloralin	Cotton seed	0.05
		Soya bean	0.05
89.	Flufenacet	Rice	0.05
90.	Flusilazole	Rice	0.01
		Chilli	0.01
		Dried Chilli	0.1
		Milk and Milk products	0.05
		Meat and Meat products	1
		Groundnut	0.05*
		Apple	0.05
		Grapes	0.05
91.	Fluvalinate	Cotton seed Oil	0.05
		Tea	0.01
92.	Forchlorfenuron	Grapes	0.01
93.	Fosetyl-Al	Grapes	10
		Cardamom	0.2
94.	Glufosinate Ammonium	Cotton seed Oil	0.05*
		Tea	0.01

		Milk and Milk products	0.02
95.	Glyphosate	Tea	1
		Rice	0.01
		Meat and Meat products	0.05
96.	Halosulfuron methyl	Sugarcane	0.03*
		Maize	0.01*
		Bottle Gourd	0.01*
97.	Hexaconazole	Mango	0.02
		Rice	0.02
		Ground nut seed	0.02
		Tea	0.02
		Grapes	0.1
		Chilli	0.5
		Dried Chilli	5
		Potato	0.02
		Soya bean	0.02
		Apple	0.1
		Blackgram	0.01*
98.	Hexazinone	Sugarcane	0.02
99.	Hexythiazox	Tea	15
		Chilli	0.01
		Dried Chilli	0.1
		Apple	0.3
100.	Hydrogen Cyanamide	Grapes	0.01
		Sugarcane	0.03*
101.	Iodosulfuron Methyl Sodium	Wheat	0.01
102.	Imazethapyr	Soyabean	0.03
		Soyabean oil	0.1
		Groundnut oil	0.1
103.	Imidacloprid	Citrus (Acid Lime)	1
		Groundnut Seed	1
		Mango	0.2
		Sugarcane	0.1
		Okra	2
		Sunflower Seed	0.5
		Chilli	0.3
		Dried Chilli	3
		Grapes	1
		Tomato	1
		Cucumber	1
		Cotton seed Oil	0.05
		Rice	0.05
		Brinjal	0.2
		Milk and Milk products	0.1
		Meat and Meat products	0.1
		Soya bean	3.0
		Soya bean Oil	0.01*
104.	Indoxacarb	Tomato	0.5
		Chilli	0.01
		Dried Chilli	0.1
		Pigeon pea	0.1
		Chick Pea	0.2
		Rice	0.05
		Soya bean	0.5

		Cottonseed	1
		Cottonseed Oil	0.1
		Cabbage	3
		Milk and Milk products	0.1
		Meat and Meat products	2
105.	Iprobenfos (Kitazin)	Rice	0.2
106.	Iprodione	Rape seed	0.5
		Mustard seed	0.5
		Rice	10
		Tomato	5
		Grapes	10
107.	Isoprothiolane	Rice	0.1
108.	Isoproturon	Wheat	0.1
109.	Kasugamycin	Rice	0.05
		Tomato	0.05
110.	Kresoxim Methyl	Milk and Milk products	0.01
		Meat and Meat products	0.05
		Maize	0.02*
		Wheat	0.05*
		Chilli	0.15
		Dried Chilli	1.5
		Potato	0.02*
		Soya bean	0.02*
		Soya bean Oil	0.02*
		Soya bean Cake	0.02*
		Cotton seed Oil	0.02*
111.	Lambda cyhalothrin	Brinjal	0.2
		Tomato	0.1
		Rice	1
		Okra	2
		Red Gram	0.05
		Bengal Gram	0.05
		Chilli	0.05
		Dried Chilli	0.5
		Groundnut seed	0.01
		Onion	0.01
		Soya bean	0.01
		Mango	0.2
		Grapes	0.05
		Cotton seed Oil	0.05
		Tea	0.05*
		Maize	0.01*
112.	Linuron	Pea	0.05
113.	Lufenuron	Cauliflower	0.1
		Cotton seed	0.01
		Black Gram	0.02*
		Chilli	0.05
		Dried Chilli	0.5
		Cabbage	0.3
		Pigeon pea	0.01
114.	Malathion (Malathion to be determined and expressed as combined residues of malathion and malaoxon)	Food grains	Wheat-10.0, Maize-0.05 and other food grains-4
		Milled food grains	1
		Fruits	4
		Vegetables	3

		Dried fruits	8
		Carbonated Water	0.01
115.	Mandipropamid	Grapes	2
		Tomato	0.3
		Potato	0.05*
116.	Mepiquat Chloride	Potato	0.1
		Cotton seed	0.5
		Cotton seed Oil	0.5
117.	Mesosulfuron Methyl	Wheat	0.01
118.	Metaflumizone	Cabbage	0.05
119.	Metalaxyl	Pearl Millet (Bajra)	0.05
		Maize	0.05
		Sorghum	0.05
120.	Metalaxyl-M	Potato	0.05*
		Grapes	1
		Black pepper	0.5
		Mustard Seed	0.01
		Chilli	0.02
		Dried Chilli	0.2
		Tomato	0.5
121.	Methabenzthiazuron	Wheat	0.5
122.	Methomyl	Tomato	1
		Pigeon pea seeds	0.05
		Chilli	0.05
		Dried Chilli	0.5
		Groundnut seed	0.05
		Grapes	0.3
		Soya bean	0.2
		Milk and Milk products	0.02
		Meat and Meat products	0.02
123.	Methyl Chlorophenoxy Acetic Acid (MCPA)	Rice	0.05
		Wheat	0.2
		Milk and Milk products	0.04
124.	Methyl Parathion (combined residues of methyl parathion and its oxygen analogue to be determined and expressed as methyl parathion)	Rice	0.01
		Black Gram	0.01
		Cotton seed oil	0.01
		Mustard seed or Mustard oil	0.01
125.	Metolachlor	Soya bean Oil	0.05
		Milk and Milk products	0.01*
126.	Metribuzin	Tomato	0.05*
		Sugarcane	0.01*
		Potato	0.05*
		Soya bean Oil	0.1
		Wheat	0.03
127.	Metsulfuron Methyl	Rice	0.01
		Wheat	0.1
		Sugarcane	0.02
128.	Milbemectin	Chilli	0.01
		Dried Chilli	0.1
129.	Monocrotophos	Food grains	0.03
		Milled food grains	0.01
		Citrus fruits	0.2
		Other fruits	1
		Cotton seed	0.1

		Cotton seed Oil (raw)	0.05
		Meat and Poultry	0.02
		Milk and Milk products	0.02
		Eggs	0.02 (shell free basis)
		Coffee (Raw beans)	0.1
		Chilli	0.2
		Dried Chilli	2
		Cardamom	0.5
130.	Myclobutanil	Apple	0.01
		Chilli	0.2
		Dried Chilli	2
		Groundnut seed	0.1
		Grapes	1
131.	Novaluron	Chilli	0.01
		Dried Chilli	0.1
		Chickpea	0.01
		Cotton seed	0.5
		Cotton seed Oil	0.01
		Tomato	0.01
		Cabbage	0.7
132.	Orthosulfamuron	Paddy	0.1
133.	Oxadiargyl	Mustard Seed	0.05
		Onion	0.1
		Cumin	0.01
		Rice	0.1
		Sunflower seed	0.05*
		Sunflower Oil	0.05*
134.	Oxadiazon	Rice	0.03
135.	Oxydemeton-Methyl	Cotton seed oil	0.01
		Chilli	2
		Dried chilli	20
		Mustard oil	0.01
		Food grains	Wheat-0.02, Rye-0.02 and other Food grains- 0.02
		Milk and Milk products	0.01
		Meat and Meat products	0.05
136.	Oxyfluorfen	Rice	0.05
		Groundnut Oil	0.05
		Mentha	0.01
		Tea	0.2
		Potato	0.01
		Onion	0.05
137.	Paclobutrazol	Mango	0.01
138.	Paraquat dichloride (Determined as Paraquatcations)	Food grains	Sorghum-0.03 and other food grains- 0.1
		Milled food grains	0.03
		Potato	0.2
		Other vegetables	0.05
		Cotton seed	2
		Cotton seed oil (edible refined)	0.05
		Milk and Milk products (whole)	0.01
		Fruits	0.05
		Tea	0.2
139.	Penconazole	Grapes	0.4
		Black gram seed	0.02
		Mango	0.05

		Apple	0.1
		Milk and Milk products	0.01
		Meat and Meat products	0.05
140.	Pencycuron	Rice	0.01
141.	Pendimethalin	Wheat	0.05
		Rice	0.05
		Soyabean Oil	0.05
		Cotton seed Oil	0.05
		Chilli	0.05*
		Dried Chilli	0.5
		Onion	0.4
		Red gram	0.05*
142.	Penoxuslum	Rice	0.1*
143.	Permethrin	Cucumber	0.5
		Cotton seed	0.5
		Soya bean	0.05
		Sunflower Seed	1
144.	Phenthoate	Food grains	0.05
		Milled food grains	0.01
		Oilseeds	0.03
		Edible oils	0.01
		Eggs	0.05 (shell free basis)
		Meat and Poultry	0.05 (carcass fat basis)
		Milk and Milk products	0.01 (F)
145.	Phorate (sum of Phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)	Food Grains	0.05
		Milled food grains	0.01
		Tomato	0.1
		Fruits	0.05
		Oil seeds	0.05
		Sugarcane	0.05
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.02* (carcass fat basis)
		Milk and Milk products	0.05 (F)
		Green gram	0.01*
		Cotton seed Oil	0.05
146.	Phosalone	Pears	2
		Citrus fruits	1
		Other fruits	Apple-5.0, Pome fruit-2.0 and other fruits- 2.0
		Potato	0.1
		Other vegetables	1
		Rapeseed or Mustard Oil (crude)	0.05
147.	Picoxystrobin	Rice	0.05*
		Grapes	0.05*
		Chilli	0.05*
		Dried Chilli	0.5
		Soya bean	0.05*
		Soya bean Oil	0.05*
		Cumin	0.05*
		Wheat	0.05*
148.	Pinoxaden	Wheat	0.7
149.	Pretilachlor	Rice	0.05
150.	Pirimiphos-methyl	Rice	0.5
		Food grains except Rice	7
		Milled food grains except rice	1

		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk and Milk products	0.05 (F)
151.	Profenofos	Cotton seed oil	3
		Soya bean	0.01*
		Meat and Meat products	0.05
152.	Prohexadione calcium	Apple	0.01*
153.	Propaquizafop	Black gram	0.01
		Soya bean	0.01
		Onion	0.01*
154.	Propargite	Brinjal	2
		Chilli	2
		Dried Chilli	20
		Apple	3
		Tea	10
155.	Propiconazole	Tea	0.1
		Groundnut seed	0.1
		Rice	0.05
		Soya bean seed	0.07
		Wheat	0.05
		Milk and Milk products	0.01
		Meat and Meat products	0.01
156.	Propineb	Rice	0.05
		Tomato	1
		Apple	1
		Pomegranate	0.5
		Potato	0.5
		Chilli	2
		Dried Chilli	20
		Grapes	0.5
157.	Pyraclostrobin	Grapes	2
		Potato	0.05*
		Tomato	0.3
		Chilli	0.05*
		Dry chilli	0.5
		Soya bean	0.05
		Cotton	0.02*
		Milk and Milk products	0.03
		Onion	1.5
		Groundnut oil	0.05*
		Ground nut cake	0.05*
		Apple	0.5
		Corn	0.02*
		Cumin	0.02*
		Banana	0.02*
		Black gram	0.02*
		Cucumber	0.2
		coffee	0.05*
		Wheat	0.01*
		Pomegranate	0.02*
		Green gram	0.02*
		Rice	0.02*
158.	Pyrazosulfuron ethyl	Rice	0.01
159.	Pyridalyl	Cotton seed Oil	0.02
		Cabbage	0.02

		Okra	0.02
		Chilli	0.02
		Dried Chilli	0.2
160.	Pyriproxyfen	Cotton seed	0.05
		Cotton seed Oil	0.03*
		Brinjal	0.02
		Okra	0.03
		Chilli	0.02
		Dried Chilli	0.2
161.	Pyrithiolac Sodium	Cotton seed Oil	0.02
162.	Pymetrozine	Rice	0.01*
163.	Quinalphos	Cauliflower	0.1
		Citrus	0.05
		Bengal Gram	0.05
		Cotton seed Oil	0.05
		Mustard seed oil	0.1
		Soya bean	0.05
		Groundnut oil	0.3
		Rice	0.01
		Pigeon pea	0.01
		Cardamom	0.01
		Tea	0.01
		Fish	0.01
		Chilli	0.2
		Dried Chilli	2
164.	Quizalofop ethyl	Cotton seed	0.1
		Soya bean seed	0.05
		Onion	0.01*
		Groundnut	0.1
		Black Gram	0.01*
165.	Quizalofop-P-tefuryl	Soya bean Seed	0.02
		Cotton seed or Cotton seed oil	0.05*
166.	Sodium Aceflourofen	Soya bean	0.05*
167.	Spinosad	Cotton seed oil	0.02
		Cabbage	2
		Cauliflower	0.02
		Red gram	0.01
		Chilli	0.01
		Dried Chilli	0.1
		Meat and Meat products	2
168.	Spiromesifen	Tomato	0.7
		Cottonseed	0.7
		Apple	0.01
		Brinjal	0.5
		Chilli	0.1
		Dried Chilli	1
		Tea	70
		Green Tea	70
		Okra	0.03
169.	Sulfosulfuron	Wheat	0.02
170.	Tebuconazole	Rice	1.5
		Groundnut seed	0.15
		Groundnut oil	0.05
		Wheat	0.15

		Milk and Milk products	0.01
		Tomato	2
		Meat and Meat products	0.05
		Onion	0.15
		Soya bean	0.15
		Mango	0.2
		Grapes	6
		Chilli	0.4
		Dry Chilli	4
		Cotton seed Oil	2
		Apple	1
		Banana	1.5
		Black Gram	0.01*
		Maize	0.05*
		Cabbage	1.0
171.	Thiacloprid	Cotton seed	0.05
		Cotton seed Oil	0.05
		Rice	0.02
		Brinjal	0.7
		Tea	5
		Soya bean seed	0.03*
		Apple	0.7
		Milk and Milk products	0.05
		Meat and Meat products	0.1
		Chilli	0.02
		Dried Chilli	0.2
172.	Thifluzamide	Rice	0.05
173.	Thiodicarb	Cabbage	0.02
		Brinjal	0.05
		Red Gram	0.05
		Black Gram	0.03
		Chilli	0.01
		Dried Chilli	0.1
		Cotton seed oil	0.02
		Meat and Meat products	0.02
174.	Thiamethoxam	Rice	0.02
		Okra	0.5
		Cotton seed Oil	0.01
		Brinjal	0.3
		Tomato	0.70
		Wheat	0.05
		Tea	20
		Mango	0.20
		Potato	0.30
		Mustard seed	0.01
		Cumin	0.01
		Acid Lime	0.5
		Milk and Milk products	0.05
		Meat and Meat products	0.02
		Groundnut	0.05*
		Groundnut Oil	0.05*
		Sugarcane	0.05*
		Maize	0.05*
		Soya bean	0.05*
		Soya bean Oil	0.05*

		Chilli	0.5
		Dried Chilli	5
175.	Thiometon(Residues determined as thiometon its sulfoxide and sulphone expressed as thiometon)	Food grains	0.03
		Milled food grains	0.01
		Fruits	0.5
		Potato, Carrots and Sugar beets	0.05
		Other vegetables	0.5
176.	Thiophanate-Methyl	Apple	5
		Papaya	7
		Milk and Milk products	0.05
		Wheat	0.03*
		Bottle gourd	0.4
		Pigeon pea	0.03*
		Cucumber	0.2
		Grapes	3
177.	Tolfenpyrad	Cabbage	0.01*
		Okra	0.7
178.	Trichlorfon	Food grains	0.05
		Milled food grains	0.01
		Sugar beet	0.05
		Fruits and Vegetables	0.1
		Oil seeds	0.1
		Edible oil (Refined)	0.05
		Meat and Poultry	0.1
		Milk and Milk products	0.05
179.	Triacontanol	Milk and Milk products	0.01
180.	Triadimefon	Wheat	0.5
		Pea	0.1
		Grapes	2
		Milk and Milk products	0.01*
		Meat and Meat products	0.02*
		Chilli	0.4
		Dried Chilli	4
		Coffee	0.5
		Mango	0.03*
		Soya bean	0.02*
181.	Trifloxystrobin	Tomato	1
		Wheat	0.2
		Mango	0.4
		Grapes	3
		Chilly	0. 4
		Dry Chilly	4
		Cotton seed Oil	0.02
		Apple	0.7
		Banana	0.1
		Maize	0.1
		Cabbage	0.5
182.	Triallate	Wheat	0.05
183.	Triasulfuron	Wheat	0.01*
184.	Triazophos	Chilli	0.2
		Dried Chilli	2
		Rice	0.6
		Cotton seed oil	1
		Soya bean oil	0.05

185.	Tricyclazole	Rice	3
		Chilli	0.3
		Dried Chilli	3
186.	Tridemorph	Wheat	0.1
		Grapes	0.5
		Mango	0.05
187.	Trifluralin	Wheat	0.05
188.	Validamycin	Rice	0.01
189.	Fluopicolide	Grapes	2.0
190.	Tembotrione	Maize	0.02*
191.	Propanil	Rice	0.05*
192.	Fluopyram and its metabolites	Grapes	2
193.	Topramezone	Corn	0.05*
194.	Thiocyclam Hydrogen Oxalate	Rice	0.01*
195.	2,4-D Amine Salt	Tea	0.05*
196.	Ametyrn	Sugarcane	0.05*
197.	Fomesafen	Soya bean	0.02*
		Soya bean oil	0.02*
		Ground nut	0.02*
		Ground nut oil	0.02*
198.	Imazamox	Ground nut	0.01*
		Ground nut oil	0.01*
199.	Spinetoram and its metabolites (Spinosyn-J and Spinosyn-L)	Chilli	0.05
		Dry Chilli	0. 5
		Cottonseed Oil	0.02
		Soya bean	0.02
		Soya bean Oil	0.02
200.	Sodium Para Nitro Phenolate	Tomato	0.3
		Cottonseed	0.5*
		Cottonseed oil	0.5*
201.	Bentazone	Soya bean	0.05*
		Soya bean oil	0.05*
		Rice	0.05*
202.	Cyflumetofen	Tea	0.05*
203.	Boscalid	Grapes	5
204.	Flucetosulfuron	Rice	0.02*
205.	Haloxyfop-R Methyl	Soya bean	2
		Soya bean Oil	0.02*
		Soya bean deoiled Cake	0.02*
206.	Sulfentrazone and its metabolite Desmethylsulfentrazone and 3-Hydroxymethylsulfentrazone	Soya bean	0.2
		Soya bean Oil	0.2
		Soya bean deoiled Cake	0.2
207.	Spirotetramat	Okra	1.0
		Brinjal	1.0
		Chilli	2
		Dry Chilli	20
208.	Metrafenone	Grapes	5
209.	Fluxapyroxad	Grapes	3.0
		Apple	0.9
		Rice	5
210.	Tetraconazole	Watermelon	0.01*
211.	Abamectin	Grapes	0.05*
		Chilli	0.05*
		Dry Chilli	0.5

212.	Flupyradifurone and its metabolites Difluroacetic Acid and Difluroethylamino-furanone	Okra	0.8
213.	Sulfoxaflor	Cotton seed and Cotton seed Oil	0.4
		Rice	0.01*

* Maximum Residue Limit fixed at Limit of Quantification (LOQ)

F: Maximum Residue Limit Calculation on Fat Basis

$: The limit shall be for copper in the regulations 2.1 metal contaminants of the Food Safety and Standards (Contaminants, Toxins And Residues) Regulations, 2011 and as amended from time to time.

Note: Tolerance limit of 0.01 mg/kg shall apply in cases of pesticides for which MRL have not been fixed.

PAWAN AGARWAL, Chief Executive Officer

[ADVT. III/4/Exty./458/18]

Note.- The principal regulations were published in the Gazette of India, Extraordinary *vide* notification number F.No. 2-15015/30/2010, dated the 1st August, 2011 and subsequently amended *vide* notification numbers:-

(i) F. No.1-12/Sci.panel/(Notification)/FSSAI/2012, dated the 3rd December, 2014;
(ii) F. No. P. 15025/264/13-PA/FSSAI, dated the 4th November, 2015;
(iii) F.No.1-99/1/SP(contaminants)/FSSAI/2009, dated the 4th November, 2015;
(iv) F. No. 1-99/4/SP(Contaminants)/FSSAI/2014, dated the 4th November, 2015;
(v) F. No. 1-10(6)/Standards/SP(Fish and Fisheries Products)/FSSAI-2013, dated the 4th January, 2016;
(vi) F. No. P. 15025/264/13-PA/FSSAI, dated the 5th January, 2016;
(vii) F.No. P.15025/264/13-PA/FSSAI, dated the 3rd May, 2016;
(viii) F. No.1-99/SP (Contaminants)/REG/FSSAI/2015, dated the 10th October, 2016;
(ix) F.No.1-10(2)/Standards/SP(Fish and Fisheries Products)/FSSAI-2013, dated the 18th January, 2017;
(x) F. No. P/15025/264/13-PA/FSSAI, dated the 21st July, 2017;
(xi) F. No. P.15025/264/13-PA/FSSAI-2017,dated 27th December, 2017;
(xii) F. No. 1-100/SPPAR-NOTIFICATION-CTR/FSSAI/2016, dated 19 th March , 2018; and
(xiii) F. No. 1-100/SP(PAR)- Notification/Enf/FSSAI/2014, dated 20th July , 2018.

Classification of Pesticides based on Acute Oral & Dermal LD_{50} Values

Classification of Pesticides	Medium lethal LD_{50} by the oral route (mg/kg body weight of test animals)	Medium lethal LD_{50} by the dermal route (mg/kg body weight of test animals)	Colour of identification band on the label
1. Extremely toxic	1-50	1-200	
2. Highly toxic	51-500	201-2000	
3. Moderately toxic	501-5000	2001-20000	
4. Slightly toxic	>5000	>20000	

Antidotes for Pesticide Poisoning

Group I Organophosphates

Antidotes:

1. **Atropine Sulfate** is used to counteract the effects of cholinesterase inhibitors. Injections should be repeated as symptoms recur.
2. **Protopam Chloride (2-PAM)** should also be injected to counteract organophosphate poisonings. It is given intravenously.
3. **Diazepam** can be given intra-muscularly.

Do Not Use morphine, phenothiazines, succinyl chlorides, xanthene derivative, epinephrine, theophyllin, aminophyllin or barbituates.

Group II Carbamates

Antidotes:

1. **Atropine Sulfate** is used to counteract the effects of cholinesterase inhibitors. Injections should be repeated as symptoms recur.
2. **Do Not Use Protopam Chloride (2-PAM).**
3. Convulsions can be treated with **diazepam.**

Do Not Use morphine, phenothiazines, succinyl chlorides, xanthene derivative, epinephrine or barbituates.

Group III Chlorinated Hydrocarbons

Antidotes:

1. **Barbiturates or diazepam or paraldehyde** for convulsions or restlessness.
2. **10% Calcium Gluconate** given intravenously.
3. **In severe cases, give corticosteroids to protect vital organs like liver.**
4. **Do Not Use epinephrine (adrenalin), morphine, theophylline or aminophyline.**

Group IV Inorganic Arsenicals

Antidotes:

1. **BAL (dimercaprol)** is specific for arsenic poison. Inject intramuscularly.

Group V Cyanides

Antidotes:

1. **Amyl Nitrite** through inhalation.
2. **Sodium Nitrite** given intravenously.
3. **Sodium Thiosulfate** given intravenously.

Group VI Anticoagulants

Antidotes:

1. **Vitamin K** orally, intramuscularly, or intravenously.
2. **Vitamin C** useful adjunct.

Group VII Fluoroacetates

Antidotes:

1. **Monacetin (glycol monoacetate)** intramuscularly.

Group VIII Dinitrophenols

1. **Do Not Use atropine sulfate.**
2. Maintain life supports.
3. **Sodium Methyl Thiouracil** may be used to reduce basal metabolic rate.

Group IX Bromides and Carboxides

Antidotes:

1. **BAL (dimercaprol)** may be given before symptoms appear.
2. **Barbiturates** for convulsions.

Group X Synthetic Pyrethroids

Antidotes:

1. Control seizures with injectable **diazepam or barbiturates**.

Group XI Phosphides

Antidotes:

1. **Morphine** for relief of abdominal pain.
2. High doses of **corticosteroids** for treatment of shock and haemorrhage.

Group XII Fumigants

Antidotes:

1. Administer **Aminophylline**, initially with normal liver function, give 1 mg/kg slowly I.V. as a loading dose, followed by 0.6 mg/kg per hour as a maintenance regime.
2. **Morphine**: as needed, if there is no sign of respiratory depression.
3. **Furosamide**: Adults : 40 mg. slowly I.V. Children 0.5 to 1.5 mg/kg slowly I.V

Group XIIIChlorophenoxy Herbicides, Ureas, Dithiocarbamates, Dintrophenolic Compounds, Bipyridylliums, Acids, Triazines, Amides, Anilines, Benzimidazoles, Morphilines, Copper, Carboxyanilides, Sulfones, Miscellaneous

Antidotes:

1. None.
2. Maintain life supports

COMMON FIRST AID MEASURES IN CASE OF PESTICIDE POISONING

If ingested: If person is conscious and alert, rinse mouth with water and give 1 or 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Call the doctor. Do not induce vomiting until and unless desired by attending physician.

If inhaled: Take the patient to fresh air and take care of body temperature. If patient is not breathing or breathing with difficulty, give artificial respiration preferably with mouth to mouth breathing. Consult a physician.

In case of skin contact: Wash thoroughly the affected part of the body with soap and plenty of water including hairs and under fingernails. If pain, redness or irritation persists, consult a doctor. All the contaminated clothes should be segregated and thoroughly washed with soap and water separately before use.

In case of eye contact: Rinse gently with plenty of water for at least 15 minutes. If pain, irritation, redness or photophobia persists, consult eye specialist.

ACFI Jago Kisan Jago Campaign

Agro Chem Federation of India ACFI' launched a mass awareness campaign to aware farmers about the optimal use of Crop Protection Chemicals. Under this initiative, ACFI has deployed twenty mobile vans in Haryana, Maharashtra, and Telangana.






OBJECTIVE:

1 To educate the farmers and spread the message that by using the right pesticides their crop yield will increase significantly.

2 To buy agrochemicals with GST Bill.

3 To consult the KVK Scientists, Agriculture officers, and Agri university professors before buying any product.

4 To use the agrochemicals judiciously as prescribed in the product leaflet.

5 To create awareness against misbranded and counterfeit products.

6 To create awareness about modern technology like Drones.

ACTIVITIES DONE:

1 The 20 campaign vans traveled in Haryana, Maharashtra, and Telangana with proper monitoring.

2 ACFI with its members has organized various farmer meetings during this period of time.

3 They have distributed awareness leaflets on things to remember while buying, using, spraying, and storing the plant protection chemicals.

4 They have fixed posters in the villages regarding buying crop protection chemicals with the advice of KVK Scientists, District Agriculture officers & Agriculture University professors, etc.

FEEDBACK:

1 The farmers are aware of the importance of agrochemicals in increasing and maintaining crop yield. But their concern was regarding the

(i) sub-standard and misbranded products that are there in the market. Most of the farmers cannot differentiate between a genuine and misbranded product, for which they depend on the dealers.

(ii) Day by day the required doze is getting increased as pests are not dyeing with prescribed dozes.

2. The farmers are told by the dealers they will have to pay 18% extra cost on the product if they need the bill, thus they do not ask for the GST bill. Most of the farmers buy pesticides on credit basis from the dealer and they take advantage of this and refuse to give GST Bill.

3. The KVK scientists, Agri extension workers are not active in remote areas and are failing in educating and helping the farmers in choosing the right product for their crops, thus the farmers seek advice of the pesticide dealers.

4. The agriculture extension workers are also not working actively in educating them on identifying the difference between the genuine and sub-standard product. Even when the industry organizes kisan sanghosties they do not talk about menace of misbranded and counterfeit products. They only speak about their brands in promotion.

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GHARDA CHEMICALS LIMITED

Dr. Gharda has been conferred with the prestigious award Padma Shri by the Govt. of India









- Established in 1967 by Dr. K. H. Gharda. Today Gharda Chemicals Limited is one of the top 3 Indian Crop Protection Chemical Manufacturers
- Gharda Chemicals Ltd also manufactures Hi Performance Polymers and Specialty Pigments
- Research driven company focussing on Technical Innovation, Energy Conservation, Product Development and Customer Satisfaction
- World's largest manufacturer of Chlorpyriphos Technical
- ISO 9001, ISO 14001, ISO 50001 and OHSAS 18001 Certified

PRODUCT RANGE

Insecticides

Product Name
Alpha Cypermethrin Technical
Cypermethrin Technical
Deltamethrin Technical
Permethrin Technical
Chlorpyriphos Technical
Indoxacarb Technical
Fipronil Technical
Diflubenzuron Technical
Quinalphos Technical
Profenophos Technical
Temephos Technical
Cartap HCL

Herbicides

Product Name
Anilofos Technical
Isoproturon Technical
Dicamba Technical
Triclopyr Butoxy Ethyl Ester
Bispyribac Sodium Technical
Diuron Technical

Public Health Products (WHO approved)

Product Name
Alpha Cyper Technical
Deltamethrin Technical 98.5%
Temephos Technical
Chlorpyriphos Technical

Vet Products

Product Name
Oxyclozanide
Deltamethrin Technical
Cypermethrin Technical
Permethrin Technical
Fipronil Technical

Intermediates

Product Name
Cypermethric Acid (98:2)
Cypermethric Acid Chloride (40:60)
High Trans CMA (2:98)
High Trans CMAC (2:98)
Meta Phenoxy Benzaldehyde
Meta Phenoxy Benzyl Alcohol
Bromo Benzene

Plant Growth Regulator

Mepiquat Chloride	44/50% Aqueous Solution

Paint Industry Application

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