



APPROVED & REGISTERED PLANT PROTECTION CHEMICALS IN INDIA, 2021



KISAN KALYAN KARYAKRAM

2021 AGRO CHEM FEDERATION OF INDIA

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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.ppqqs.gov.in and <https://agritech.tnau.ac.in/>



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President's message



Dear All,

Agro Chem Federation of India has gradually established itself as a true platform for policy interventions and a vocal flag-waver for the entire Indian Agro Chemical Industry in a transparent and democratic way. We also reiterate our commitment for the society as ever, dedicated towards promoting the safe & judicious use of Agrochemicals & work towards sustainability of Indian Agriculture to help in providing quality Agri inputs at affordable prices.

As an industry body, we are keen to facilitate the Agro Chemical industry, be it on policy front or various initiatives for the overall benefit of the industry. In this endeavour, ACFI has published a compilation of the pesticides that have been approved and registered in the country under the Insecticides Act., 1968 & Insecticides Rules, 1971.

ACFI has attempted to make a sincere effort to sensitize extension functionaries about the Approved and Registered Pesticides in India. Not only the compilation of these in a handbook form will be helpful for providing a ready reference to all concerned regulatory stakeholders in the country, but also help the farmers to identify the approved pesticides along with their role in controlling specific pest/ diseases & using right dose at right time with the appropriate application methodology.

I hope that the efforts made by ACFI for the compilation of the "Approved & Registered Pesticides-2021" will help the industry, the Government and farmers to promote the safe and Judicious Use of Pesticides

Nand Kishore Aggarwal
President
Agro Chem Federation of India

THE PUBLISHER

Agro Chem Federation of India (ACFI) is a 'Non-Profit Organization' registered under the Society Registration Act, effective June 6, 2017. We are an industry body representing manufacturers/ importers of technical and formulation of pesticides at PAN India Level.

We have partnered with many Academic Institutions, Farmer Associations, Associated Government & Non-Government Departments, etc.

We work in the interest of Farmers by educating them about Plant Protection Chemicals (Pesticides) for higher yields and better quality of agricultural produce of various crops, involving right dose, timely and appropriate application methodology and use of PPEs.

Our Objective

- To work as an Interface between Government, Industry & farming community on the Policy matters for the betterment of the Indian Farming Sector.
- Harmonization in matters pertaining to relevant legislation and policies framed for the benefit of the overall Agro-based Industry including the agrochemicals, fertilizers, seeds, biopesticides, farm mechanization and other related sectors.
- To highlight the concerns raised by the Indian Industry with respect to manufacturing, import & export, of Plant Protection Chemicals.
- Working towards the sustainability of Indian Agriculture and helping farmers to provide them with quality Agri-Inputs at affordable prices.
- ACFI Member Companies are committed to promote new technologies, practices and products which are eco-friendly and safe to public health.

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 agrochemicals (pesticides), biopesticides, fungicides, herbicides, insecticides, etc.

The handbook is a compilation of the Major Uses of Pesticides & Registered Products 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.

Therefore, ACFI took a decision to publish such a reference compilation in the form of a Handbook. Information provided in the book has been extracted from the information available on the Pesticide Regulatory Authority website www.ppqg.gov.in.

ACFI Stewardship Program

Kisan Kalyan Karyakram

ACFI is working continuously for the Indian Farmers, ensuring their safety, empowering them and making them self-reliant. On the same note, ACFI is initiating this Stewardship Program, “Kisan Kalyan Karyakram”. The aim of this initiative is to educate the farmers about the judicious and justified use of Plant Protection Chemicals (Pesticides), how to increase their crop yield and spread awareness for higher yields and better quality of various crops, involving right dose, timely and appropriate application methodology and use of PPEs.

Different activities under this initiative: -

Kisan Sangoshti/ Awareness Program: Organizing Mega Farmer meetings along with the industry members, District Agriculture officers and State Agriculture department- to educate the farmers on the usage of the Plant Protection Chemicals (Pesticides) i.e. when to use, how to use, what to use and how much to use these products.

Farmers Awareness Campaign:

Poster- Spreading awareness among the farmers regarding the Importance of getting GST Invoice through posters in different languages. So that the message can be reached to as many farmers in India and they will buy only the genuine product and that too with proper GST invoice.

Pamphlet – Very important information like “Things to Remember” while Buying, Using, Spraying and Storing the Plant Protection Products. This will help/ educate the farmers to use the proper gears/ kits while using the Pesticides and reduce the chances of any causality.

Pocket Booklet- Important things to remember while Buying, Using, Spraying and Storing the Plant Protection Chemicals, different types of spraying Nozzles and their usage. The purpose is to make sure it reaches as many farmers, Center/ State and District level officers related to this sector give them a handy booklet which they can keep in their pockets all the time to increase their knowledge base in an interactive way.

Video Campaign -Educating the farmers through a short but informative video about mechanization & technological advancement. Targeting subjects like, “Dos & Don'ts” while using the Plant Protection Chemicals, Pre harvest strategy (Crop/ Season/ Area specific), etc. Encouraging farmers to buy genuine products and judicious use of the same.

The aim of “Kisan Kalyan Karyakram” is to enable Indian Farmers in yielding quick results, achieve Sustainability across the agricultural sector and empower/ educate them through and through.

Tol Mol Ke Bol **Pesticides: Not a Poison but Remedy** **(for crop protection)**

Shri Narendra Modi, Hon'ble Prime Minister of India has envisioned “Doubling farmers' income”. To support this vision, agrochemicals will play a crucial role in the overall agricultural productivity of the nation. In fact, their role in ensuring the food and nutrition security of the nation is the reason, that Agro Chem federation of India (ACFI) is taking forward this initiative; and will be conducting a Seminar on this important sector with the Theme of “**Tol Mol Ke Bol - Pesticides : Not a Poison but Remedy**”

The Agriculture segment contributes 17% to the Indian GDP and almost half of our population is directly or indirectly survives on agriculture or an allied field. Indian agriculture is facing serious challenges because of the ever-increasing population, limited land & water availability and degradation of natural resources. The national average yield of most commodities is low, leading farmers to adopt modern methods of technology, irrigation facilities, pesticides, and fertilizers to increase their output. Pesticides act as the medicine/ immunity boosters for the crop which protect them from the ravages of pests, diseases and weeds. They enable farmers to produce more food on a smaller piece of land at an affordable price. Fundamentally, pesticides are made to be lethal for the targeted pest, weed or disease. That poses hardly any threat to humans, animals and the environment.

But the human concept of “if little is good, a lot will be better” has created havoc in the agriculture sector. Where regulated dose of pesticides and fertilizers on the crops guarantees high yielding, negligible use of it can also destroy the whole crop. Farmers need vast information and training to avoid such situations and sustain their cultivation. We need to educate the farmers about the usage of pesticides like what's the correct amount for each crop, how much of it should be sprayed, how it should be sprayed, what are the important steps to remember while using the pesticides and many more. There is a long list of benefits that farmers can get from pesticides but only if they know how to.

Expectations from the Government

- The public sector as well as the private sector need to play a much larger role in the training and skill development of farmers and encourage the PPP model.
- The out-of-school education system can be created there for the farmers to gain information that is reliable and timely.
- Kisan Sanghoshti can be arranged both by the public and the private sector to disseminate pertinent information.
- Agricultural extension services can reach various Govt. departments for the support and information database.
- The Government should motivate farmers to purchase pesticides only with proper GST bill.

Expectations from the Industry

- List of Do's and Don'ts can be provided with every agri inputs, preferably in their local language.
- "On Field" Practical training can be given to the farmers on the appropriate and timely usage of agri inputs.
- Separate literature can be given to the farmers on 1) how to use, 2) when to use, 3) what to use, to increase their crop yield and also to ensure their safety.

The idea is to erase the negative perception around Plant Protection Chemicals among the farmers.

INDEX

S.No.	Category	Page
1.	Bio-Insecticides	1-19
2.	Bio-Pesticides	20-43
3.	Fungicides	44-92
4.	Herbicides	93-139
5.	Insecticides	140-219
6.	Plant Growth Regulators (PGR)	220-233
7.	Insecticides / Pesticides Registered under section 9(3) of the Insecticides Act, 1968 for use in the Country.	234-243
8.	Pesticides and Formulations Registered for use in the Country under the Insecticides, Act, 1968	244-262
9.	Source Of Import And List Of Indigenous Manufacturers Of Insecticides.	263-371
10.	List of various approved pesticides for Control of Desert Locust	372
11.	List of Pesticides which are banned, refused registration and restricted use.	373-377
12.	Insecticides schedule as on March, 2021.	378-425
13.	List of Dual / Multi use Insecticides as per Insecticides Schedule	426
14.	Food Safety and Standards (Contaminants, Toxins and Residues) 3 rd Regulation, 2018	427-448
15.	Classification of Pesticides based on Acture Oral & Demal LD ₅₀ Values	449
16.	Antidotes for Pesticide Poisoning	450-452
17.	Plant Protection Equipments	453-454
18.	Things To Remember	455-456
19.	Important Contacts	457-472
20.	ACFI Members Details	473-476
21.	ACFI Secretariat	477

MAJOR USES OF PESTICIDES

(Registered under the Insecticides Act, 1968)

(As on – 30/06/2021)

(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 (<i>Helicoverpa armigera</i>)	-	1000-1500	500	03
Brinjal	Shoot & fruit borer (<i>Leucinodes orbonalis</i>)	-	1000-1500	500	03
Azadirachtin 00.03% EC Min. Neem Oil Based					
Cotton	Bollworm (<i>Helicoverpa armigera</i>), 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 (<i>Helicoverpa armigera</i>)	-	-	-	07

Red Gram (Tur or Arhar)	Pod borer (<i>Melanagromyza</i> 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, <i>Helicoverpa armigera</i> , Aphids	-	375.0	750	05
Cauliflower	<i>Spodoptera</i> , 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
<i>Bacillus thuringiensis</i> var. <i>galleriae</i> 1593 M sero type H 59 5b, 1.3% flowable concentrate Potency 1500 IU/mg					

Cabbage & Cauliflower	Diamond back moth (<i>Plutella xylostella</i>)	-	06-1.0	500	-
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	-	1.0-1.5	500	-
Bhindi (Okra)	Fruit borer (<i>Earias</i> spp.)	-	1.0-1.5	500	-
Chilli	Fruit borer (<i>Spodoptera litura</i>)	-	1.5-2.0	1000	-
Cotton	Bollworm (<i>Helicoverpa armigera</i>)	-	2.0-2.5	1000	-
Rice (Paddy)	Leaf folder (<i>Cnaphalocrocis medinalis</i>)	-	1.0-3.0	1000	-
<i>Bacillus thuringiensis</i> var. <i>Arustaki</i>					
Cotton	Bollworm	-	750-1000	750-1000	-
<i>Bacillus thuringiensis</i> var. <i>Arustaki</i>, serotype H-39, 3B, Strain Z-52					
Cotton	Bollworms, <i>Spodoptera</i>	0.75-1.00	500-750	-	-
Rice (Paddy)	Stem borer & Leaf folder	1.50	500-750	-	-
Gram	<i>Heliothis</i> sp.	0.75	500-750	-	-
Pigeon Pea	<i>Heliothis</i> sp.	0.75	500-750	-	-
Soybean	<i>Spodoptera</i> , <i>Heliothis</i> , <i>Spilosoma</i> , Semilooper, Leaf miner	0.75	500-750	-	-
Tobacco	<i>Spodoptera</i> , <i>Heliothis</i>	1.50-2.00	500-750	-	-
Castor	Hairy caterpillar, <i>Achaea janata</i>	1.00	500-750	-	-
Teak	Defoliator (<i>Hyblaea puera</i>), Skeletonizer (<i>Eutectona machaeralis</i>)	0.25-0.50	500-750	-	-
<i>Bacillus thuringiensis</i> serovar <i>Arustaki</i> (3a, 3b, 3c) 5.0% WP Potency 55000 SU (<i>Spodoptra</i> unit based)					

(5x10⁷ 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	-
<i>Bacillus thuringiensis</i> var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)					
Caster	Caster 5rustaki5r (<i>Achaea janata</i>)	-	0.25	250-300	-
<i>Bacillus thuringiensis</i> 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)					
Pigeon pea	Bollworm (<i>Helicoverpa armigera</i>)	-	1-1.25	1000	-
<i>Bacillus thuringiensis</i> var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 9000 IU/mg min. U/s 9(3b)					
Caster	Caster 5rustaki5r (<i>Achaea janata</i>)	-	0.25- 0.375	250	-
<i>Bacillus thuringiensis</i> var. 5rustaki 0.5% WP serotype 3a, 3b, 3c, Strain DOR Bt-1, Potency 16000 IU/mg min.					
Chickpea	Chick pea pod borer (<i>Helicoverpa armigera</i>)	-	2.0	500	-
<i>Bacillus thuringiensis</i> var. 5rustaki 2.5% AS (Spicbio-BTK AS)					
Gram	Gram pod borer (<i>Helicoverpa armigera</i>)	-	1.0-1.5	500	-
<i>Bacillus thuringiensis</i> var. 5rustaki, Serotype H-3a, 3b, Strain Z-52					
Potency:-					
□ 3000 IU/mg min – on Gypsy moth					

<input type="checkbox"/> 32000 IU/mg min – <i>Trichoplusia vi</i> <input type="checkbox"/> 50000 IU/mg min – <i>Helicoverpa armigera</i> <input type="checkbox"/> 55000 IU/mg min – <i>Spodoptera exiqua</i>					
Cotton	Bollworms, Spodoptera	-	0.75-1.0 kg.	500-750	-
Rice	Stem borer & Leaf folder	-	1.50 kg.	500-750	-
Gram	<i>Helicoverpa armiger</i>	-	0.75 kg.	500-750	
Pigeon Pea	<i>Helicoverpa armiger</i>	-	0.75 kg.	500-750	-
Soyabean	<i>Spodoptera litura</i> , <i>Helicoverpa armigera</i> , <i>Spilosoma brustak</i> , Semilooper, Leaf miner	-	0.75 kg.	500-750	-
Tobacco	Spodoptera, Helicoverpa armigera	-	1.50-2.00 kg.	500-750	-
Castor	Hairy caterpillar, Caster 6rustaki6r (<i>Achaea janata</i>)	-	1.00 kg.	500-750	-
Teak	Defoliator (<i>Hyblaea puera</i>), Skeletonizer (<i>Eutectona machaeralis</i>)	-	0.25-0.50% Sol.	As required.	-
<i>Bacillus thuringiensis</i> var. 6rustaki Strain HD-1, serotype 3a, 3b, 3.5% ES for Import & repack. Potency 17600 IU/mg					
Cotton	Bollworms	-	750-1000	750-1000	-
<i>Bacillus thuringiensis</i> var. 6rustaki Serotype 3a, 3b, SA II WG Potency:- 53000 SU/mg, 32000 IU/mg					
Cabbage, Cauliflower	Diamond back moth	-	0.5 kg.	500-700	-
<i>Beauveria bassiana</i> 1.15% WP					
Cotton	Bollworms	-	400	750-1000	-
<i>Beauveria bassiana</i> 01.15% WP					
Cotton	Bollworm	-	2000	400	-
Rice (Paddy)	Leaf folder	-	2.50 kg/ha	750-850	-

<i>Beauveria bassiana</i> 1.15% WP. (1x10⁸ /gm min) Strain BB-ICAR-RJP, Accession No – MCC 1022					
Rice	Rice leaf folder (<i>Cnaphalocrosis medinalis</i>)	-	2.5 kg.	750-850	-
<i>Beauveria bassiana</i> 1.15% WP (Strain : BB – 5372, own R & D Isolate)					
Rice	Rice leaf folder (<i>Cnaphalocrosis medinalis</i>)	-	2.5 kg.	600-750	-
<i>Beauveria bassiana</i> 1.15% WP (1x10⁸ /gm min) Strain ICAR, Research Complex, Umiam, Meghalaya, Accession No – NAIMCC-F-03045					
Rice	Rice leaf folder (<i>Cnaphalocrosis medinalis</i>)	-	2.5 kg.	750-850	-
<i>Beauveria bassiana</i> 1.15% WP (1x10⁸ /gm min) Accession No – NAIMCC-F-03045, Strain No. NBAIM, MAU.					
Rice	Rice leaf folder (<i>Cnaphalocrosis medinalis</i>)	-	2.5 kg/ha	750 liter/ha	-
<i>Beauveria bassiana</i> 1.15% WP (1x10⁸ /spores/ml) Strain BCRL, Accession No – BCRL Bbpx-6892					
Cabbage	Diamond back moth (<i>Plutella xylostella</i>)	1-1.5 litre	500-750	Apply using any type of sprayer (high, low or ultra low volume) which gives good coverage	NA
<i>Beauveria bassiana</i> 1.0% WP, Strain No: NBRI – 9947 (1x10⁸ CFU/gm Min.)					
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	3.0 kg.	500	-
<i>Beauveria bassiana</i> 1.0% WP (1x10⁹ CFU/gm min), Strain No. IPL/BB/MI/01					
Okra (Bhindi)	Fruit borer, Spotted bollworm	-	3.75-5.0 kg.	400-500	-
<i>Beauveria bassiana</i> 1.0% WP (1x10⁸ CFU/gm min), Strain No. SVBPU/CSP/Bb-10, Accession No. ITCC-					

7520					
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	3.0 kg.	500	-
<i>Beauveria bassiana</i> 5.0% WP, (1x10⁸ CFU/gm min) Strain IARI, Accession No. ITCC-7353					
Cabbage	Diamond back moth (<i>Plutella xylostella</i>)	-	2.0 kg.	500	-
<i>Beauveria bassiana</i> 5.0% SC, Strain: NBAII , Bangalore , Accession No. ITCC-7102, (Strain Isolated by Project Directorate of Bio-logical control, Bangalore)					
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	-	500	500	-
<i>Beauveria bassiana</i> 5.0% AS Strain : BB-AAU-RJP Accession No. MCC – 1024					
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	-	0.5	500	-
<i>Beauveria bassiana</i> 1.15% WP (1x10⁸ /gm min) Accession No – NAIMCC-F-03048					
Chick pea	Gram Pod Borer (<i>Helicoverpa armigera</i>)	-	2500	500	-
<i>Beauveria bassiana</i> 10.00% SC					
Cabbage	Diamond back moth	1-1.5	-	500-750	-
<i>Metarhizium anisopliae</i> 1.15% WP (1x10⁸ CFU/gm min) Accession No. MTCC – 5173					
Rice	Brown plant hopper (<i>Nilaparvata lugens</i>)	-	2.5 kg.	500	-
<i>Metarhizium anisopliae</i> 1.0% WP (1x10⁸ CFU/gm min) Strain No. IPL/KC/44 (Own R & D Isolate), Accession No. 6895.					
Brinjal	Shoot & Fruit borer (<i>Leucinodes orbonalis</i>)	-	2.5-5.0	500-750	-
<i>Metarhizium anisopliae</i> 1.15% WP (1x10⁸ CFU/gm min) Strain No. AAI, Allahabad, Accession No. NAIMCC-F-03037.					

Chickpea	Helicoverpa armigera	2.5	500	–	--
Metarhizium anisopliae 10% GR (CFU count 1 X 10⁸/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 <i>Metarhizium anisopliae</i> (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 (<i>Meloidogyne</i> spp.)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50 gm/sq.m and apply <i>Pseudomonas fluorescens</i> 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Brinjal	Root-knot nematodes (<i>Meloidogyne</i> spp.)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50 gm/sq.m and apply <i>Pseudomonas fluorescens</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Carrot	Root-knot nematodes (<i>Meloidogyne</i> spp.)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50gm/sq.m and apply <i>Pseudomonas fluorescens</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Okra	Root-knot nematodes (<i>Meloidogyne</i> spp.)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50gm/sq.m and apply <i>Pseudomonas fluorescens</i> 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 (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds & nursery beds with the <i>Trichoderma harzianum</i> 1.0% WP @ 50 gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.	
Brinjal	Root-knot nematodes (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds & nursery beds with the <i>Trichoderma harzianum</i> 1.0% WP @ 50 gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.	
Carrot	Root-knot nematodes (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds and apply <i>Trichoderma harzianum</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.	
Okra	Root-knot nematodes (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds and apply <i>Trichoderma harzianum</i> 1.0% WP (@ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.	
Gerbera	<i>Meloidogyne incognita</i>	Apply the Nemastin @ 50 gm/sq.m at the time of planting	
Carnations	<i>Meloidogyne incognita</i>	Apply the Nemastin @ 50 gm/sq.m at the time of planting	
Tuberose	<i>Meloidogyne incognita</i>	Apply 2 Kg Nemastin 1% Wp mixed in 2 tones of FYM per acre to the soil before planting	
Banana	<i>Meloidogyne incognita</i>	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 (<i>Tylenchulus semipenetrans</i>)	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	<i>Meloidogyne spp.</i> Reniform Nematodes (<i>Rotelenchulus reniformis</i>)	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	Dosage	PHI (Days)

	pest	a.i.(mg/dispenser)	Pheromones dispensers	Recommended area of treatment in (Ha)	
Cotton	Pink bollworm (<i>Pectinophora gossypiella</i>)	>140	9875	25	NA
<i>Trichoderma harzianum</i> 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)					
Tomato	Root-knot nematodes (<i>Meloidogyne incognita</i>)		Treat the seed with <i>Trichoderma harzianum</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.5% WP @ 50gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.5% WP @ 5kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.		
Brinjal	Root-knot nematodes (<i>Meloidogyne incognita</i>)		Treat the seed with <i>Trichoderma harzianum</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.5% WP @ 50 gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.		
Carrot	Root-knot nematodes (<i>Meloidogyne incognita</i>)		Treat the seed with <i>Trichoderma harzianum</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.5% WP @ 50 gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.		
Okra	Root-knot nematodes (<i>Meloidogyne incognita</i>)		Treat the seed with <i>Trichoderma harzianum</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.5% WP @ 50 gm/sq.m and also apply <i>Trichoderma harzianum</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.		
<i>Trichoderma viride</i> 1.5% WP (Strain No. IIHR-TV-5 Accessions No. ITCC 6889)					

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

Carrot	Root-knot nematodes (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Verticillium chlamydosporium</i> 1.0% WP @ 20 gm/kg of seeds and apply <i>Verticillium chlamydosporium</i> 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Okra	Root-knot nematodes (<i>Meloidogyne incognita</i>)	Treat the seeds with <i>Verticillium chlamydosporium</i> 1.0% WP @ 20 gm/kg of seeds and apply <i>Verticillium chlamydosporium</i> 1.0% WP @ 5 kg/ha enriched FYM * @ 5 tons/ha to the soil before transplanting.			
<i>Verticillium lecanii</i> 1.15% WP, (1x10⁸ CFU/gm min) Strain – AS MEGH-VL Accession No – MCC-1028					
Cotton	White flies	-	2500	500	-
Citrus	Mealybug (<i>Planococcus citri</i>)	-	2500	550	-
<i>Verticillium Lecanii</i> 1.50% Liquid Formulation, (1x10⁸ CFU/ml. min.) Strain – T Stanes VI-1, Accession No – MTCC-5172					
Tomato	White fly (<i>Bemisia tabaci</i>)	-	2000 (Foliar spray)	500	-
<i>Verticillium lecanii</i> 3.0% AS, (strain: Accession No. MCC-1127, Strain No. MPKV / Biocontrol/ RVN/ VL-01					
Onion	Thrips (<i>Thrips tabaci</i>)	-	2000-2500	500	-
<i>Verticillium lecanii</i> 5.0% SC, (Strain: Accession No. NFCCI - 2638					
Cabbage	Diamond Back Moth (<i>Plutella xylostella</i>)	-	500	500	-
<i>Verticillium lecanii</i> 5.0% SC, (1x10⁸ CFU/gm Min.) Strain – Own Red Isolate, Strain No. VI-17874, MTCC No.5716					
Rice	White backed plant hopper (<i>Sogatella furcifera</i>)	-	3.125 kg.	600	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 0.43% AS (1x10⁹ POB/ml)					
Cotton	<i>Helicoverpa armigera</i>	-	2700	400-600	-

Tomato	<i>Helicoverpa armigera</i>	-	1500	400-600	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. GBS/HNPV -01 (1x10⁹ POB/ml Min.)					
Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500-750	-
Gram	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500-750	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. NBRI-8821 (1x10⁹ POB/ml Min.)					
Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	500	500	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. IBH-17268 (1x10⁹ POB/ml Min.)					
Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Gram	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500 ml	500-750	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. BIL/HV-9 POB(1x10⁹ POB/ml Min.)					
Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500-750	-
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500-750	-
Tomato	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500	-
Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 2.0% AS, Strain No. IBL-17268					
Pigeon pea	Pod borer (<i>Helicoverpa armigera</i>)	-	250-500	500-750	-
Chick pea	Pod borer (<i>Helicoverpa armigera</i>)	-	500-1000	500-750	-

Nuclear Polyhedrosis Virus of <i>Helicoverpa armigera</i> 0.43% AS, Strain No. BIL/HV-9 (1x10⁹ POB/ml Min.)					
Cotton	<i>Helicoverpa armigera</i>	-	2700	400-600	-
Tomato	<i>Helicoverpa armigera</i>	-	1500	400-600	-
Nuclear Polyhedrosis Virus of <i>Spodoptera litura</i> 0.5% AS, (1x10⁹ POB/ml Min.)					
Tobacco	<i>Spodoptera litura</i>	-	1500	400-600	-
NPV of <i>Helicoverpa armigera</i> 0.5%AS, (1x10⁹ POB/ml Min.)					
Chickpea	Pod borer (<i>Helicoverpa armigera</i>)	-	250	500	-
NPV of <i>Helicoverpa armigera</i> 2.0%AS, (1x10⁹ POBs count / ml min) Biological Insecticide					
Chickpea	Pod borer (<i>Helicoverpa armigera</i>)	-	250	600	-
<i>Paecilomyces lilacinus</i> 01.15% WP					
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	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> WP					
Anopheles and Culex (larvae)	-	-	2-5 kg.	-	14-28

<i>Bacillus thuringiensis</i> var. <i>israelensis</i>, 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	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i>, Serotyp H-14 (Vectobac 12 AS) potency 1200 ITU/mg					
Anopheles	Clean water, cement tanks	-	1-2 liters	-	-
Culex	Polluted water, Casspits, Cement tank, Stagnant and flowering drains	-	2-4 liters	-	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> 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	-
Anopheles	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)	-	05 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/m ²)		200 Liters of Water	
Anopheles	Clean water (Paddy fields, Ponds, Pool)	5 (0.5 ml/m ²)		200 Liters of Water	
<i>Bacillus thuringiensis</i> var. israelensis (H-14) 5.0% AS					
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	-
<i>Bacillus thuringiensis</i> var. israelensis, Serotyp 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	

<i>Bacillus thuringiensis</i> var. <i>israelensis</i>, Strain Designation- ABIL, Accession No. NAMICC-B01318 (CFU Count- 4.8 x 10⁸) Serotyp H-14, 5% WP Potency 7000 ITU/mg					
Name of Insect	Habitat	Formulation (lit/ha.)		Dilution in water (Liters)	Waiting period (Days)
		Gm/m ²	Kg/ha		
<i>Anopheles</i> species, <i>Culex</i> species, <i>Aedes</i> species	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	-
<i>Bacillus thuringiensis</i> var. <i>sphaericus</i>1593 M sero type H 59 5b					
<i>Anopheles</i> species, <i>Culex</i> species	For Drains, Cesspits Cesspools, Paddy fields, ponds	-	112	1 liter in 10 liter of water	-
<i>Anopheles</i> species, <i>Culex</i> species	Casuarinas pits, unused wells, unused overhead tanks, Domestic wells (Not for drinking requirements)	-	112	1 liter in 10 liter of water	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> 12% AS (Vectobac)					
<i>Anopheles</i> species	Clean water, cement tanks	-	1-2 liter	-	-
<i>Culex</i> species	Polluted water, cess pits, cement tanks, stagnant and flowing drains	-	2-4 liter	-	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> 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	-
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> 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	-
<i>Bacillus sphaericus</i> 1593 M sero type H 59 5b, 1.3% flowable concentrate Potency 13000 IU/mg					
<i>Anopheles</i> species, <i>Culex</i> species	For Drains, Cesspits Cesspools, paddy fields, ponds	-	112 ml	1 liter/10 liter of water	-
<i>Anopheles</i> species, <i>Culex</i> species	Casuarinas pits, unused wells, unused overhead tanks, Domestic wells (Not for drinking requirements)	-	112 ml	1 liter/10 liter of water	-



Ministry of Micro, Small and Medium Enterprises
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*Approved Input for use in organic agriculture according to IFOAM standard
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Difenoconazole	Cloquintocet-Mexyl (Safener)



FARMER PROSPERITY



FOOD SECURITY



SOIL HEALTH



SUSTAINABILITY



PUBLIC HEALTH

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MAJOR USES OF BIO-PESTICIDES
(Registered under the Insecticides Act, 1968)

(UPTO - 30/06/2021)

(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)/%		
<i>Ampelomyces quisqualis</i> 2.0% WP					
Okra (Bhindi)	Powdery mildew (<i>Erysiphe cichoracearum</i>)	-	2.5 kg	500	-
Neem oil based EC containing, Azadirachtin 0.030% (300 ppm)					
Bhindi	Powdery mildew	-	2-2.50	500	03
<i>Pseudomonas fluorescens</i> 1.75% WP (In house isolated Strain Accession No. MTCC 5176)					
Wheat	Loose smut	-	05 g/kg seed (Seed treatment)	Mix the required quantity of seeds with the required quantity of <i>Pseudomonas fluorescens</i> 1.75% WP formulation and ensure uniform coating. Shade dry and sow the seeds.	-
		-	05 g/litre (Foliar spray)	Dissolve 5 kg of <i>Pseudomonas fluorescens</i> 1.75% WP in 1000 litres of water and spray	

<i>Bacillus subtilis</i> 1.50% L.F (T Stanes Bs-1 Strain MTCC 25072)					
Banana	Sigatoka (<i>Mycosphaerella musicola</i>)	-	5 Liter/ha (Foliar spray)	750 Liter/ha	-
<i>Pseudomonas fluorescens</i> 2.0% AS (Strain No. IPL/PS-01, Accession No. MTCC 5727)					
Paddy	Bacterial leaf blight (<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>)	-	10 ml/litre of water	Seedling Root Dip Treatment: Mix 10 ml of <i>Pseudomonas fluorescens</i> 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 <i>Pseudomonas fluorescens</i> 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
<i>Bacillus subtilis</i> 2.0% AS (Strain No. IPL/BS-09, Accession No. MTCC 5728)					
Paddy	Bacterial leaf blight (<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>)	-	10 ml/litre of water	Seedling Root Dip Treatment: mix 10ml of <i>Bacillus subtilis</i> 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 <i>Bacillus subtilis</i> 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.	Ni
<i>Bacillus subtilis</i> 1.15% AS (MTCC Accession no. 5786)					
Grapes	Powdery mildew (<i>Erysiphe necator</i>)	-	2 ml/litre water	<i>Bacillus subtilis</i> 1.15% AS is 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 <i>Bacillus subtilis</i> 1.15% AS activator bottles	-

				with <i>Bacillus subtilis</i> 1.15% 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.	
<i>Pseudomonas fluorescens</i> 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 <i>Pseudomonas fluorescens</i> 0.5% WP formulation and ensure uniform coating. Shade dry and sow the seeds.	-
		-	1 kg/ha	Soil Treatment: 01 kg of <i>Pseudomonas fluorescens</i> 0.5% WP spread uniformly over 1 hectare of	-

				land (foliar spray @ 2%).	
Rice	Leaf and neck blast (<i>Pyricularia oryzae</i>)	-	10 gm/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Pseudomonas fluorescens</i> 0.5% WP.	Nil
		-	1 kg/ha	Soil Treatment: Broadcast 1 kg <i>Pseudomonas fluorescens</i> 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	-
Chili seedlings	Damping off (<i>Pythium aphanidermatum</i>)	-	10 g/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Pseudomonas fluorescens</i> 0.5% WP and ensure uniform coating, shade dry and sow	Nil
Tomato	Wilt (<i>Fusarium oxysporum</i> F.sp.)	-	10 gm/kg of seeds	Seed Treatment: Mix required	Nil

				quantity of the seeds with the required quantity of <i>Pseudomonas fluorescens</i> 0.5% WP and ensure uniform coating, shade dry and sow	
			2.5 kg/ha	Soil Treatment: 2.5 kg of <i>Pseudomonas fluorescens</i> 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 <i>Pseudomonas fluorescens</i> WP and ensure uniform coating with 0.2% Foliar spray, shade dry and sow	Nil
<i>Pseudomonas fluorescens</i> 1.5% WP (BIL-331 Accession No. MTCC5866)					
Paddy	Bacterial Leaf blight (<i>Xanthomonas oryzae</i>),Blast (<i>Pyricularia oryzae</i>),Leaf spot (<i>Helminthosporium oryzae</i>)	-	5 gm/kg of seed	Seed Treatment: Make a thin paste of required quantity of <i>Pseudomonas fluorescens</i>	Nil

				1.5% WP with min. volume of water and coat the seed uniformly, shades dry the seeds just before sowing.	
		-	2.5 kg /ha	Soil Treatment: Mix 2.5 kg of <i>Pseudomonas fluorescens</i> 1.5% WP with 50 kg FYM or and broadcast uniformly over hectare of land 30 days after planting.	Nil
<i>Pseudomonas fluorescens</i> 1.0% WP (IPL/PS-01 Accession No. MTCC5727)					
Tomato	Wilt (<i>Fusarium oxysporum</i>), Damping Off (<i>Pythium aphanidermatum</i>), Root rot (<i>Rhizoctonia</i> spp.)	-	5 gm/kg of seed	Seed Treatment: Make a thin paste of required quantity of <i>Pseudomonas fluorescens</i> 1.0% WP with the minimum volume of water & coat the seed uniformly, shade dry the seed just before sowing.	Nil
		-	2.5 kg/ha	Soil Treatment: Mix 2.5kg of <i>Pseudomonas fluorescens</i>	Nil

				1.0% WP with 62.5 kg FYN and broadcast uniformly over a hectare of land.	
		-	10gm/litres of water	Seedling Root Dip Treatment: Mix 10 gm of <i>Pseudomonas fluorescens</i> 1.0% WP in one litre of water and dip the tomato seedling root rot for minutes.	Nil
<i>Pseudomonas fluorescens</i> 1.0% WP (Strain No. IIHR-PF-2 Accession No. ITCCB0034)					
Tomato	Wilt (<i>Fusarium oxysporum</i>)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50gm/sq.m and apply <i>Pseudomonas fluorescens</i> 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Brinjal	Wilt (<i>Fusarium solani</i>)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Pseudomonas fluorescens</i> 1.0% WP @ 50 gm/sq.m and apply <i>Pseudomonas fluorescens</i> 1.0% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Carrot	Root rot (<i>Athelia rolfsii</i>)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20gm/kg of seeds and apply <i>Pseudomonas fluorescens</i> 1.0% WP @ 5 kg/ha enriched FYM* @ 5tons/ha to the soil before sowing.			
Okra	Wilt (<i>Fusarium oxysporum</i>)	Treat the seed with <i>Pseudomonas fluorescens</i> 1.0% WP @ 20 gm/kg of seeds and apply <i>Pseudomonas fluorescens</i> 1.0% WP @ 5 kg/ha			

		enriched FYM* @ 5 tons/ha to the soil before sowing.			
<i>Pseudomonas fluorescens</i> 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 <i>Pseudomonas fluorescens</i> 1.5% Liquid formulation ensure uniform coating, shade dry and sow.		
		6.0 litre per ha	Foliar spray: Spray <i>Pseudomonas fluorescens</i> 1.5% Liquid formulation uniformly on the crop.		
<i>Pseudomonas fluorescens</i> 1.5% AS (ICAR-CRDE, KVK Strain Accession No. MTCC - 2539)					
Groundnut	Late leaf spot	-	10 ml/kg seed	Seed Treatment: Mix the required quantity of seeds with the required of <i>Pseudomonas fluorescens</i> 1.5% AS and ensure uniform coating. Shade dry and sow the seeds.	Nil
		-	01 litre/ha	Soil Treatment: 1 Litre of <i>Pseudomonas fluorescens</i> 1.5% AS spread uniformly over 1 hectare of land (foliar spray @ 0.2%)	Nil
<i>Trichoderma harzianum</i> 0.50% WS					
Cardamom	Capsule rot (<i>Phytophthora meadii</i>)	-	100 gm/plant	Soil Treatment: Apply 100 gm	-

				product/ plant along with Neem cake (0.5 kg/plant) and 5 kg FYM/plant	
<i>Trichoderma harzianum</i> 1.0% WP (Strain No. IIHR-TH-2 Accessions No. ITCC 6888)					
Tomato	Wilt (<i>Fusarium Oxysporum</i>)	Treat the seed with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.0% WP @ 50 gm/sq.m and apply <i>Trichoderma harzianum</i> 1.0% WP @ 5 kg/ha enriched FYM*@5tons/ha to the soil before transplanting.			
Brinjal	Wilt (<i>Fusarium solani</i>)	Treat the seed with <i>Trichoderma harzianum</i> 1.0% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma harzianum</i> 1.0% WP @ 50gm/sq.m and apply <i>Trichoderma harzianum</i> 1.0% WP @ 5kg/ha enriched FYM*@5tons/ha to the soil before transplanting.			
Carrot	Root rot (<i>Sclerotium rolfsii</i>)	Treat the seed with <i>Trichoderma harzianum</i> 1.0% WP @ 20gm/kg of seeds and apply <i>Trichoderma harzianum</i> 1.0% WP @ 5kg/ha enriched FYM*@ 5tons/ha to the soil before sowing.			
Okra	Wilt (<i>Fusariumoxysporum</i>)	Treat the seed with <i>Trichoderma harzianum</i> 1.0% WP @ 20gm/kg of seeds and apply <i>Trichoderma harzianum</i> 1.0% WP @ 5kg/ha enriched FYM*@ 5tons/ha to the soil before sowing.			
<i>Trichoderma harzianum</i> 1.0% WP (Strain no. Th3 Accession no. 5593)					
Chickpea	Root rot (<i>Rhizoctonia solani</i>)	6 gm/kg of seeds (seed treatment) and soil drenching with <i>Trichoderma harzianum</i> after 50 days of sowing.			
<i>Trichoderma harzianum</i> 2.0% WP (NBRI-1055)					
Maize	Root rot (<i>Fusarium moniliforme</i>),	-	20 gm/kg seed	Seed Treatment: Make a thin	-

	Fusarium wilt			paste of required quantity of <i>Trichoderma harzianum</i> 2.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing.	
<i>Trichoderma viride</i> 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
<i>Trichoderma viride</i> 0.5% WP					
Tomato	Wilt (<i>Fusarium oxysporum</i>)	-	10 g/kg seed	Seed Treatment- Mix the required quantity of seeds with the required quantity of <i>Trichoderma viride</i> 0.50% WP and ensure uniform coating, Shade dry and sow.	-
<i>Trichoderma viride</i> 1.15% WP					

Groundnut	Seedling wilt	-	4 gram/kg seeds	<p>Seed Treatment: Make required quantity of <i>Trichoderma viride</i> 1.15% WP uniform coating, shade dry and sow.</p> <p>Soil Application: Mix 2.5 kg <i>Trichoderma viride</i> 1.15% with 100 kg of properly decomposed farmyard manure and spread uniformly over a hectare of land.</p>	-
Wheat	Loose smut	-	4 gram/kg seeds	Seed Treatment.	-
Trichoderma viride 1.0% WP (TNAU Strain Accession No. ITCC 6914)					
Cowpea	Root Rot	-	5 gm/kg seed	<p>Seed Treatment: Make a fresh slurry of required quantity of <i>Trichoderma viride</i> 1.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing.</p>	Nil

		-	2.5 kg/ha	Soil Treatment: Mix 2.5 kg of <i>Trichoderma viride</i> 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 (<i>Pythium aphanidermatum</i>)	-	4 g/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1.0% WP and ensure uniform coating shade dry and sow	Nil
Urd bean	Root rot (<i>Macrophomina phaseolina</i>)	-	4 g/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1.0% WP and ensure uniform coating shade dry and sow	Nil
Pigeon pea	Root rot (<i>Macrophomina phaseolina</i>)	-	4 g/kg seed	Seed Treatment: Mix required quantity of the	Nil

				seeds with the required quantity of <i>Trichoderma viride</i> 1.0% WP and ensure uniform coating shade dry and sow	
<i>Trichoderma viride</i> 1.0% WP (Strain T-14 in house isolate of M/s Indore Biotech Inputs & Research (P) Ltd., Indore)					
Chickpea	Wilt (<i>Fusarium oxysporum</i>)	-	5 gm/kg seed	Seed Treatment: Make slurry of required quantity of <i>Trichoderma viride</i> 1.0% WP with minimum volume of water & coat the seeds uniformly, shade dry the seeds just before sowing	-
	Root Rot (<i>Rhizoctonia solani</i> & <i>Sclerotiumrolfsii</i>)	-	5.0 kg/ha	Soil Treatment: Mix 5.0 kg of <i>Trichoderma viride</i> 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 (<i>Rhizoctonia solani</i>)	-	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 (<i>Fusarium oxysporum</i> f.sp. <i>lycopersici</i>)	-	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 (<i>Fusarium oxysporum</i>)	Treat the seed with <i>Trichoderma viride</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma viride</i> 1.5% WP @ 50 gm/sq.m and apply <i>Trichoderma viride</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Brinjal	Wilt (<i>Fusarium solani</i>)	Treat the seed with <i>Trichoderma viride</i> 1.5% WP @ 20 gm/kg of seeds & treat the nursery beds with the <i>Trichoderma viride</i> 1.5% WP @ 50 gm/sq.m and apply <i>Trichoderma viride</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before transplanting.			
Carrot	Root rot (<i>Sclerotium rolfsii</i>)	Treat the seed with <i>Trichoderma viride</i> 1.5% WP @ 20 gm/kg of seeds and apply <i>Trichoderma viride</i> 1.5% WP @ 5 kg/ha enriched FYM* @ 5 tons/ha to the soil before sowing.			

Okra	Wilt (<i>Fusarium oxysporum</i>)	Treat the seed with <i>Trichoderma viride</i> 1.5% WP @ 20 gm/kg of seeds and apply <i>Trichoderma viride</i> 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 (<i>Sclerotinia sclerotiorum</i>)	-	4 gm/kg seed	Seed Treatment: Make a thin paste of required quantity of <i>Trichoderma viride</i> 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 <i>Trichoderma viride</i> 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 (<i>Rhizoctonia bataticola</i> , <i>Sclerotium rolfsii</i> , <i>Fusarium oxysporum</i> , <i>Rhizoctonia solani</i>)	-	5 gm/kg seeds	Seed Treatment: Make a thin paste of required quantity of <i>Trichoderma viride</i> 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 <i>Trichoderma viride</i> 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 <i>Trichoderma viride</i> 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 <i>Trichoderma viride</i> 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 (<i>Rhizoctonia solani</i>)	-	10 gm/litre water	Seedling Root dip Treatment:	-

				Mix 10 gm of <i>Trichoderma viride</i> 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 <i>Trichoderma viride</i> 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	-
<i>Trichoderma viride</i> 1.0% WP					
Tomato	Seedling wilt (<i>Fusarium oxysporum</i>), Damping off (<i>Pythium aphanidermatum</i> , <i>Rhizoctonia solani</i>)	-	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 (<i>Fusarium oxysporum</i>), Damping off (<i>Pythium aphanidermatum</i> , <i>Rhizoctonia solani</i>)	-	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	-
<i>Trichoderma viride</i> 1.0% WP					
Sunflower	Seed rot (<i>Sclerotium rolfsii</i>), Root rot (<i>Sclerotium rolfsii</i>)	-	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.	
<i>Trichoderma viride</i> 1.0% WP (TNAU Strain Accession No. ITCC 6914)					
Pigeon pea	Root rot (<i>Macrophomina phaseolina</i>)	-	4 gm/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1.0% WP and ensure uniform coating, shade dry and sow	-
Urd bean	Root rot (<i>Macrophomina phaseolina</i>)	-	4 gm/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1.0% WP and ensure uniform coating, shade dry for 24 hours and sow	-
<i>Trichoderma viride</i> 5.0% SC (Strain Accession No. ITCC 7111)					
Chilli (Nursery)	Damping off (<i>Pythium aphanidermatum</i>)	-	2 ml/kg seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 5.0% SC. Ensure uniform coating, shade	Nil

				dry and sow	
<i>Trichoderma harzianum</i> 2.0% AS (Strain No. IPL/VT/102, Accession No. ITCC 6893)					
Paddy	Bakane (Foot rot) (<i>Fusarium moniliforme</i>)	-	30 ml/litre of water	Seedling Root Dip Treatment: Mix 30 ml of <i>Trichoderma harzianum</i> 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 <i>Trichoderma harzianum</i> 2.0% AS with 100 kg of properly decomposed FYM and broadcast uniformly over a hectare of land prior to transplanting.	Nil
<i>Trichoderma viride</i> 1.0% AS (Strain TV-AAV-RJP, Accession no. MCC 1013)					
Urd Bean (Black gram)	Root rot	-	4-6 ml/kg. Seed	Seed Treatment: Mix required quantity of the seeds with the required quantity of <i>Trichoderma</i>	-

				<i>viride</i> 1.0% AS and ensure uniform coating, shade dry and sow	
<i>Trichoderma viride</i> 5.0% Liquid Formulation (Accession no. NAIMCC-F-03034)					
Rice	Brown spot (<i>Cochliobolus miyabeanus</i>)	-	500 liter/ha	Foliar spray	-
Pea	Powdery mildew (<i>Microsphaera alni</i>)	-	500 liter/ha	Foliar spray	



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MAJOR USES OF PESTICIDES
(Registered under the Insecticides Act, 1968)

(UPTO - 30/06/2021)

(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 per ha			Waiting period from last application to harvest (in days)
		a. i. (g)	Formulation (g/ml)/%	Dilution in water (L)	
Amisulbrom 20% SC					
Potato	Late blight (<i>Phytophthora infestans</i>)	100	500	375-500	19
Grape	Downy mildew (<i>Plasmopara viticola</i>)	75	375	400-1000	59
Azoxystrobin 23% SC					
Grapes	Downy mildew, Powdery mildew	125 gm	500 ml	500-750	7
Chilli	Fruit rot, Powdery mildew	125 gm	500 ml	500-750	5
Mango	Anthracoise, Powdery mildew	0.025%	0.1%	100 ml/ 100 Ltr. (depending upon size of tree)	5
Tomato	Early & Late blight	125 gm	500 ml	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 spot	-	0.005%	500	30
Grapes	Downy mildew	-	0.005%	750	15
	Anthrachnose	-	0.05%	750	
Citrus	Gummosis	-	1.0%	750 (Soil drench)	30
Apple	Powdery mildew	-	0.005%	10 lit./tree	30
	White root rot	-	0.2%	5-10 injection 2 gm/tree	
Potato	Early blight	-	0.005%	750	30
Bitertanol 25% WP					
Groundnut	Rust	250 gm	1000 gm	500	30
	Tikka	250 gm	1000 gm	500	30
Wheat	Karnal bunt	560 gm	2240 gm	750	-
Bupirimate 26.7% w/w EC					
Rose	Powdery mildew	1000	4000	1000	5
Captan 50% WG					
Chillies	Fruit rot (Anthrachnose)	750 gm	1500 gm	500	5
Potato	Early blight & Late blight	750 gm	1500 gm	500	21
Captan 50% WP					
Apple	Scab	1250 gm	2.5 kg	750-1000	-
Cherry	Brown rot	1250 gm	2.5 kg	750-1000	-
Grapes	Downey mildew	1250 gm	2.5 kg	750-1000	-
Potato	Early blight	1250 gm	2.5 kg	750-1000	-
	Late blight	1250 gm	2.5 kg	750-1000	-

Tomato	Early blight	1250 gm	2.5 kg	750-1000	-
	Late blight	1250 gm	2.5 kg	750-1000	-
Captan 75% WP					
Apple*	Scab, Fly speck & Bitter rot	0.12%**	1667 gm	15-20**	8
Cherry	Brown rot	0.12%**	1667 gm	15-20**	NA
Grape	Downy mildew	1250 gm	1667 gm	1000	8
Cabbage/ Cauliflower, Tomato, Brinjal, Chillies, Beans, Ornamental	Damping off (Nursery)	0.25%	2500 gm	1000 Soil drench in the nursery	NA
Potato	Early blight	1250 gm	1667 gm	1000	8
	Late blight	1250 gm	1667 gm	1000	8
Tomato	Early blight	1250 gm	1667 gm	1000	6
	Late blight	1250 gm	1667 gm	1000	6
Chillies	Early blight	1250 gm	1667 gm	1000	8
	Fruit rot	1500 gm	2000 gm	1000	8
Citrus	Brown rot	0.25**	2500 gm	15-20**	NA
	Scab	0.12**	1667 gm	15-20**	NA
Rose	Black spot	1250 gm	1667 gm	1000	NA
Paddy(Rice)	Leaf spot	750 gm	1000 gm	750	NA
Captan 75% WS					
Chillies (soil drench)	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Cabbage	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Tomato	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Tobacco	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Carbendazim 5% GR					
Paddy (Rice)	Brown leaf spot	0.62 kg	12.5 kg	-	

Carbendazim 46.27% SC					
Grape	Powdery mildew	0.046 % or 46 g /100 lit. water	0.1% or 100 ml/100 lit. Water	As required	30
Mango	Powdery mildew	0.046% or 46 g/100 lit. water	0.1% or 100 ml/100 lit. Water	As required	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	Loose smut	1gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Barley	Loose smut	1 gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Tapioca	Set rot	0.5gm	1	1	-
Cotton	Leaf spot	125	250	750	-
Jute	Seedling blight	1 gm / kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Groundnut	Tikka leaf spot	112.5 gm	225 gm	750	-
Sugar beet	Leaf spot	100 gm	200 gm	400	-
	Powdery mildew	100 gm	200 gm	400	-
Peas	Powdery mildew	125 gm	250 gm	600	-
Cluster Beans	Powdery mildew	175 gm	350 gm	750	-
Cucurbits	Powdery mildew	150 gm	300 gm	600	-
	Anthracoise	150 gm	300 gm	600	-
Brinjal	Leaf spot	150 gm	300 gm	600	-
	Fruit rot	150 gm	300 gm	600	-
Apples	Scab	1.25 gm	2.5 gm	10Lit./tree	-

Grapes	Anthraco nose	150 gm	300 gm	600	-
Walnut	Downy leaf spot	1.5 gm	3 gm	10 Lit./tree	-
Rose	Powdery mildew	0.5 gm	1 gm	2	-
Ber	Powdery mildew	5 gm	10 gm	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	-
	Anthraco nose	150	300	600	-
	Powdery Mildew	150	300	600	-
Tobaco	Frog eye spot	112.5	225	750	-
	Anthraco nose	112.5	225	750	-
Carboxin 75% WP					
Wheat	Flag smut	1.5 -1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only one time seed treatment required
	Loose smut	1.5 - 1.875 gm/ kg seed	2-2.5gm/kg seed	N/A	Only one time seed treatment required
	Bunt	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only one time seed treatment required
Barley	Loose smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only one time seed treatment required
	Covered smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	required
Cotton	Angular Leaf spot	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	Only one time seed treatment
Carpropamid 27.8% SC					

Rice (Paddy)	Blast	0.03%	0.1%	300-500 depending upon crop stage	-
Chlorothalonil 75% WP					
Groundnut	Tikka leaf 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 & Late blight	0.66 - 0.937	0.875-1.250	600-800	14
Apple	Scab	0.150% (150gm/10 Ltr. water)	0.200% (200gm/100 water)	10 Ltr. water per tree	45
Grapes	Anthraco- nose 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	Downy mildew	0.12% or 120 g/100Ltr. water	0.24% or 240g/100 Ltr. water	As required depending upon PP equipment used	30
Mango	Anthraco- nose	0.12% or 120g/100 Ltr. water	0.24% or 240g/100 Ltr. water	As required depending upon PP equipment used	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	Anthraco	350	1000	500	5
Rice (Paddy)	False smut, Bacterial leaf blight	525	1500	500	10
Copper Hydroxide 77% WP					
Rice (Paddy)	False smut	1000 gm	2000 gm	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
Cyflufenamid 5% EW					
Chilli	Powdery mildew (<i>Leveillula taurica</i>)	15	300	375-500	5

Grapes	Powdery mildew (<i>Uncinula necator</i>)	25	500	400-1000	25
Cymoxanil 50% WP					
Grapes	Downey mildew	0.12%	0.24% or 240 gm/100 ltr. water	As required depending upon the crop stage and equipment used	15
Cyazofamid 34.5% SC					
Potato	Late blight	80 g	200 ml	500	27
Tomato	Late blight	80 g	200 ml	500	3-5
Grapes	Downy mildew	80 g	200 ml	500	7
Difenoconazole 3% WS					
Wheat	Loose smut	6.0	200	This is used as seed dresser	This is used as seed dresser
Difenoconazole 25% EC					
Apple	Scab	0.004% or 4 g/100 ltr. water	0.015% or 15ml/100 ltr. water	As required depending upon the size of the plant and plant protection equipment used	14
Paddy (Rice)	Sheath blight	0.0125% or 12.5g/100 ltr. water	0.05% or 50 ml/100 ltr. water	500	25
Chilli	Die-back, Fruit rot	0.0125% or 12.5g/100 ltr. water	0.05% or 50 ml/100 ltr. 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/100 ltr. water	0.03% or 30ml/100 ltr. of water	500	10
Groundnut	Leaf spot, rust	0.025% or 25g/100 ltr. water	0.1% or 100 ml/100 ltr..water.	As required depending upon the size of the plant and plant protection equipment used	34
Dimethomorph 50% WP					
Grapes	Downy mildew	500 gm	1000 gm	750 L	25
Potato	Late blight	500 gm	1000 gm	750 L	16
Dinocap 48% EC					
Mango	Powdery mildew	2.4 gm	5gm	10	-
Rose	Powdery mildew	0.96 gm	2ml	10 lit. water	-
Dithianon 75% WP					
Apple	Scab	1350 gm	1800 gms	2400 L	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
Dodine 65% WP					
Apple	Scab	0.05%	0.075%	10	21
Ediphenphos 50% EC					
Paddy (Rice)	Blast	250-300	500-600	750-1000	21
	Brown leaf spot	250-300	500-600	750-1000	21
Flusilazole 40% EC					
Rice (Paddy)	Sheath blight	120g a.i./ha	300 ml/ha	500	24

Chilli	Powdery mildew	40-60 g a.i/ha	100-150 ml/ha	500	5
Fluxapyroxad 333 g/l FS					
Sorghum	Anthraco nose	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- 1600 gm	1400- 2000 gm	750-1000	30
Cardamom	Azukhal Disease and Damping off	1800-2400 gm	2250-3000 gm	750-1000	90
Hexaconazole 2% SC					
Chillies	Powdery mildew & Fruit rot	60 gm	3.0 L	500	7
Potato	Early blight & Late blight	60 gm	3.0 L	500	21
Grapes	Powdery mildew	30-60 gm	1.5-3.0 L	500-750 depending upon crop canopy	14
Hexaconazole 5% EC					
Apple	Scab	0.0025%	0.05% (50ml/100lt)	As required	30
Rice (Paddy)	Blast, Sheath blight	50gm	1000 ml	500	40
Groundnut	Tikka leaf spot	75gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5g/100 lit)	0.1% (100ml/100 lt)	As required	30
Soybean	Rust	0.005% (5g/100 lit)	0.1% or (100ml/100 lit)	As required	30
Tea	Blister blight	10 gm	200 ml	70-90 with power sprayers, 175-200 with	7

				knap Sack sprayer	
Grapes	Powdery mildew	25-50 gm	500-1000 ml	500	14
Hexaconazole 5% SC					
Mango	Powdery mildew	0.01% (10 g/100 lt. water)	0.2% or (200 ml/100 lt. water)	As required depending on size of tree and plant protection equipment used.	27
Rice (Paddy)	Sheath blight	0.01% (10 g/100lt. water)	0.2% or (200 ml/100 lt. water)	As required depending on size of tree and 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
Iprodione 50% 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
Kasugamycin 3% SL					
Rice (Paddy)	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30
Tomato	Early blight	30-37.5	1000-1250 ml	500-600	03

		0.03- 0.0375%			
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% or 100 gram in 100 ltr. of water	0.20% or 200 ml in 200 lit.of water	As required depending upon crop stage and plant protection equipment used	15
Chilly	Fruit rot /die- back	0.10% or 100 gram in 100lit. of water	0.20% or 200 ml in 200 lit. of water	As required depending upon crop stage and plant protection equipment used	3
Tomato	Early blight	0.10% or 100 gram in 100lit. of water	0.20% or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	5
Potato	Early blight	0.10% or 100 gram in 100 lit. of water	0.20% or 200 ml in 200 lit. of water	As required depending upon crop stage and plant protection equipment used	48
Onion	Purple blotch	0.10% or 100 gram in 100lit. of water	0.20%or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	63
Pomegranate	Anthrachnose	0.10% or 100 gram in 100lit. of water	0.20% or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	10

Grape	Anthraxnose	0.10% or 100 gram in 100 lit. of water	0.20% or 200 ml in 200 lit.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	300-350 gm	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
Mancozeb 35% SC					
Tomato	Early blight & Late blight	0.175% or 175 gm/100 Lt. water	0.5% or 500 gm/100 lt. water	500 Lt. Water or as required depending upon crop stage and equipment used	10
Potato	Early blight & Late blight	0.175% or 175 gm/100 Ltr. water	0.5% or 500 gm/100 lt. water	500 Lt Water or as required depending upon crop stage and equipment used	35
Mancozeb 75% WG					
Tomato	Early blight	750 gm	1000 gm	500 Ltr.	5-6
Potato	Late blight	750gm	1000gm	500 Ltr.	3-5
Apple	Scab, Pre-mature leaf fall, Alternaria spot/blight, sooty blotch	18.75-22.5/tree	25-30/tree	10 L/tree	40
Mancozeb 75% WP					
Wheat	Brown & black rust, Blight	1.125-1.5 kg	1.5-2kg	750 Ltr..	-
Maize	Leaf blight, Downy mildew	1.125-1.5 kg	1.5-2kg	750 Ltr.	-

Paddy (Rice)	Blast	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Jowar	Leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Potato	Late blight, Early blight	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Tomato	Late blight, Buck eye rot, Leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Chilies	Damping off	2.25 g	3 g (soil drench)	1000 Ltr.	-
	Fruit rot, Ripe rot, Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Cauliflower	Collar rot	2.25 gm	3gm	1000 Ltr.	-
	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Groundnut	Tikka disease & rust	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
	Collar rot, Leaf spot	18.75 to 22.50/ 10 kg seed	25 to 30/ 10 kg seed	0.1 (water slurry)	-
Grapes	Angular leaf spot, Downy mildew, Anthracnose	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Guava	Fruit rot	15 g/tree	20 g/tree	10 Ltr.	-
Banana	Cigar end rot, Tip rot, Sigatoka leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Apple	Scab & sooty blotch	22.5 g/tree	30 gm/tree	10 Ltr.	-
Cumin	Blight	1.125-1.5 kg	1.5-2 kg	500 Ltr.	-
Mandipropamid 23.4% 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
Meptyl Dinocap 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, Brown stripe downy mildew	Slurry seed treatment with 240g/100 kg seed	700g/100 Kg seed	0.75-1.0/100 Kg seed	3½-4 months Depending on the variety
Bajra	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3-3½ months Depending on the variety
Sorghum	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety

Sunflower	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Mustard	White rust	Slurry seed treatment with 200g/100 Kg seed	600gm/100 Kg seed	0.75-1.0/100kg seed	3½-4months Depending on the variety
Metiram 70% WG					
Tomato	Alternaria blight	1750gm	2500gm	500-750 Lt.	6
Groundnut	Tikka	1400gm	2000gm	500-750 Lt.	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	Powdery mildew	0.004%	0.04%	500 lit/ha	15
Chilies	Powdery mildew, Leaf spot, Die-back	0.004%	0.04%	500 lit/ha	03

Oxathiapiprolin 10.1% OD					
Potato	Late blight	20	200	500	22 days
Grapes	Downey mildew	40	400	1000	5 days
Penconazole 10% EC					
Grapes	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	Depending upon the requirement	30
Apple	Scab	0.005% or 5 gm /100 Ltr. water	50ml/100 Ltr. water	10 Ltr. Water per tree	30
Mango	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	10 Ltr. Water per tree	30
Pulses (Black gram /Green gram)	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	500 Ltr./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)	Sheath blight	150-187.5 gm	600-750 ml	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(<i>Phakopsora pachyrhizi</i>) Leaf spot (<i>Cercospora kikuchii</i> & <i>Alternaria alternata</i>)	100	400	500	25
Cumin	Cumin blight (<i>Alternaria burnsii</i>)	100	400	500	20
Prochloraz 39.6% w/w EC					
Rice	Blast	450	1000	500	26
Propiconazole 25% EC					
Wheat	Karnal bunt (<i>Neovossia indica</i>)	125gm	500gm	750	30
	Leaf rust / Brown Rust (<i>Puccinia recondite F.sp. tritici</i>)	125gm	500gm	750	30
	Stemrust (<i>B.graminisf.sp . tritici</i>)	125gm	500gm	750	30
	Stripe rust /Yellow Rust (<i>P. striiformis</i>)	125gm	500gm	750	30
Rice (Paddy)	Sheath blight (<i>Rhizoctoniasol ani f.sesakii</i>)	125gm	500gm	750	30
Groundnut	Earlyleaf spot (<i>Cercospora arachidicola</i>)	125gm	500gm	750	15
	Lateleaf spot (<i>C. personata</i>)	125gm	500gm	750	15
	Rust (<i>Puccinia arachidis</i>)	125gm	500gm	750	15
Tea	Blister blight	31.25-62.50gm	125-250gm	175-250	7
Soyabean	Rust(<i>Phakopsoa</i>)	125gm	500gm	500	26

	<i>pachyrhizi)</i>				
Cotton	Alternaria leaf spot	125gm	500gm	500	23
Propineb 70% WP					
Apple	Scab	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon size of the tree and plant protection equipment used	30
Pomegranate	Leaf and Fruit spots	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon size of the tree and plant protection equipment used	10
Potato	Early & Late blight	0.21% or 210g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	15
Chilli	Die-back	0.21% or 210 g/100 Ltr. water	0.5% or 500 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	10
Tomato	Buck eye rot	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	10
Grapes	Downy mildew	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	40

Rice (Paddy)	Brown leaf spot and Narrow leaf spot	1050 to 1400 g	1500 to 2000 g	Use 500 Litre spray volume/hectare	-
Cotton	Alternaria leaf spot	875-1050	1250-1500	500 Ltr./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	Anthraxnose	100	500	500	3
Pyraclostrobin 100 g/l CS					
Paddy (Rice)	Blast Disease	100	1000	500	18
(Streptomycin Sulphate 90% + Tetracylin Hydrochloride 10%) SP					
Apple	Fire blight	-	Spray Streptocycline 25 to 50 ppm solution at 20 to 30% bloom. It is advisable to spray trees every 3 to 4 days during blossom time.	-	-
Beans	Halo blight	-	Spray Streptocycline 100 to 150 ppm solution thrice at interval of 7 days. For prevention	-	-

			apply first spray 10 days after emergence of leaf.		
Citrus	Citrus canker	-	Spray Streptocycline 50 to 100 ppm solution repeatedly at an interval of 15 to 20 days after the appearance of new growth. Cover the foliage and young fruits fully.	-	-
Potato	Blackleg And soft rot, bacterial brown wilt or ring or The bangle Disease of potato	-	Seeds treatment: Prior to planting soak potato seed tubers in streptocycline 40 to 100 ppm solution for half an hour. Spray: Two to three sprays of 40 to 50 ppm Solution at an interval of 20 days. First spray 30 days after planting.	-	-
Tobacco	Wildfire	-	Spray Streptocycline 40 to 100 ppm solution at two leaf stage of the	-	-

			plant. Repeated application at an interval of 7 days is necessary till the plants get established in the field.		
Tomato	Bacterial Leaf spot	-	Spray seedlings with streptocycline 40 to 100 ppm solution in seed beds and fields after the appearance of first true leaves two sprays of streptocycline, one before transplanting and another after are effective for controlling the disease.	-	-
Paddy (Rice)	Bacterial Leaf blight	-	Seeds treatment: Prepare streptocycline 40 ppm solution and soak seeds for 12 hours at room temperature before sowing. Seedling treatment: Dip the seedling in streptocycline 40 to 100 ppm solution. The antibiotic will	-	-

			be absorbed through the injured roots and penetrate the vascular bundles inside the seedlings. Spray: Spray streptomycin 100 to 150 ppm solution at early root stage. Second spray, if necessary before grain set.		
Tea	Blister Blight	-	It is fungal Disease and can be controlled by spraying 40gms with 350 to 420 gms copper oxychloride (50% Wettable powder) in 67 liters of water per hectare with air blast sprayer, covering two rows on either side.	-	-
Sulphur 40% SC					
Beans	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Cumin	Powdery mildew	1.40 g	3.50 Kg	1000	-
Grapes	Powdery mildew	1.22 Kg	3.00 Kg	1000	-
Groundnut	Tikka leaf spot	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-

Mango	Powdery mildew	1.50-2.00 Kg	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	1.50-2.00 Kg	3.75-5.00 Kg	1000	-
Sulphur 52% Flowable					
Pea	Powdery mildew	1.04 Kg	2.00 Ltr.	400	-
Chilli	Powdery mildew	1.04 Kg	2.00 Ltr.	400	-
Sulphur 55.16% SC					
Grapes	Powdery mildew	0.165% or 165 g/10 Ltr. water	0.30% or 300 ml/100 Ltr. water	As required	10
Mango	Powdery mildew	0.165% or 165g/10 Ltr. water	0.30% or 300 ml/100 Ltr. water	As required	10
Sulphur 80% WP					
Apple	Powdery mildew	2-4 kg	2.5-5.0 Kg	750-1000	-
Grapes	Powdery mildew	2-4 kg	2.5-5.0 Kg	750-1000	-
Groundnut	Tikka leaf spot	2-4 kg	2.5-5.0 Kg	750-1000	-
Cowpea, Moong/Urid	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Pea	Rust	2.5 kg	3.13 Kg	750-1000	-
Sorghum	Grain smut	2.4-3.2 g/kg seed	3-4g/Kg seed	1Lt/10 kg seed	-
Chillies & Okra	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Mango	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Citrus	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Sulphur 80% WDG					
Grapes	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea, Guar, Pea	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cumin	Powdery mildew	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	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Wheat	Powdery mildew	2000	2500	500	24
Sulphur 85% DP					
Grape	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Groundnut	Tikka leaf spot	12.75-17 kg	15-20 kg	-	-
Beans (Cowpea, moong, Urd)	Powdery mildew, Rust	12.75-17 kg	15-20 kg	-	-
Pea	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Rubber	Powdery mildew	31.875 kg	37.50 kg	-	-
Cumin & Coriander	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Tobacco (on ground)	Powdery mildew	85 kg	100 kg	-	-
Sorghum	Grain smut	2.55-3.40 g/kg of seed	3-4 g/kg of seed	-	-
Tebuconazole 2% DS					
Wheat	Loose smut, Flag smut	0.2 kg/10 kg seed	10 Lt/10 kg seed		
Groundnut	Collar rot, Root rot, Stem rot	0.2 to 0.25 kg/10kg seed	10 to 12.5Lt/10 kg seed		
Tebuconazole 5.36% FS					
Wheat	Loose smut	0.2	3.33/10 kg of seed	-	-
Tebuconazole 5.4% 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
Tebuconazole 25.9% 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
Tebuconazole 25% 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	Leaf blight	258	600	375-500	5
Cabbage	Alternaria leaf spot	258	600	375-500	5
Tetraconazole 3.8% w/w EW					
Grape	powdery mildew	25-30	625-750	1000	30

Mango	powdery mildew	50	1250	1000	24
Watermelon	powdery mildew	38	1000	500	12
Tetraconazole 11.6% w/w (12.5% w/v) SL					
Cotton	Root rot (<i>Rhizoctonia solani</i>)	15	120	Sufficient to coat the seed uniformly	NA (Seed dresser)
Thiifluzamide 24% SC					
Rice (Paddy)	Sheath blight, (<i>Rhizoctonia solani</i>)	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
Thiophanate Methyl 70% 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	Anthraco nose	1000gm	1430gm	750-1000	1
Grapes	Powdery mildew, Anthraco nose, Rust	500	715	750-1000	7
		500	715	750-1000	
		500	715	750-1000	
Thiophanate methyl 70% WG					
Bottle gourd	Anthraco nose	750-1000	1070-1430	750-1000	1
Thiram 40% FS					
Maize	Seedling blight	9.6gm/10 kg seeds	24ml/10 kg seeds	100 ml	Seed dresser
Thiram 75% WS					
Groundnut	Collar rot	37.5gm	50gm	1	7-10
Wheat	Flag smut	18.8-22.5 gm	25-30gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30gm	1	7-10
Barley	Leaf stripe	18.8-22.5 gm	25-30gm	1	7-10

Maize	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Sorghum	Loose smut	18.8-22.5 gm	25-30gm	1	7-10
	Seedling blight	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	Seed born disease	18.8-22.5 gm	25-30gm	1	7-10
Triadimefon 25% WP					
Wheat	Bunt of Wheat	0.025%	0.500 kg	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
Tricyclazole 75% WP					
Paddy (Rice)	Blast	225-300 gm	300-400 gm	500	30
Validamycin 3% L					
Rice (Paddy)	Sheath Blight	60 gm	2000 gm	750	There should be no residues on grains and straw of paddy 14 days before the harvest.

Zineb 75% WP					
Jowar	Red leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf blight	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	Leaf blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ragi (Bajra)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tobacco	Leaf spot	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	
	Late blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tomato	Early blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Late blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Grey leaf mould	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Chillies	Fruit rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
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	
	Anthraxnose	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Cauliflower	Leaf spot	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	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Grapes	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Guava	Fruit rot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ziram 80% 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

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, Powdery mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
Ametoctradin 27% + Dimethomorph 20.27% w/w SC					
Grape	Downey mildew	420-525	800-1000 ml	750	34
Cucumber	Downey mildew	420-525	800-1000 ml	500	07
Potato	Late Blight	420-525	800-1000 ml	500	32
Tomato	Late Blight	420-525	800-1000 ml	500	03
Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC					
Chilli	Anthrachnose & 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
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, Stemphylium 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
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	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 7.1% + Propiconazole 11.9% w/w SE					
Rice	Sheath Blight	37.5+62.5	500	500	43
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, Powdery mildew	82.5+137.25	750	500	10
Azoxystrobin 12.5% + Tebuconazole 12.5% SC					
Chilli	Powdery mildew & fruit rot	0.1+0.1 (0.2)	0.800	500	5
Azoxystrobin 2.5% + Thiophanate Methyl 11.25% + Thiamethoxam 25% FS					
Soybean	<i>Fusarium</i> root rot, <i>Phytophthora</i> root rot, <i>Rhizoctonia</i> seedling blight, <i>Pythium</i> 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
Boscalid 25.2% +Pyraclostrobin 12.8% 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
Captan 70% + Hexaconazole 5% WP					
Chillies	Fruit rot (Anthracnose)	375-750	500-1000	500	5
Potato	Early blight & Late blight	375-750	500-1000	500	21
Black gram	Powdery mildew, Rust	562.5	750	500	20
Carbendazim 1.92% + Mancozeb 10.08% GR					
Paddy (Rice)	Blast, sheath blight	240+1260	12.5	Broadcasting	46
Carbendazim 12%+ Mancozeb 63% WP					
Groundnut	Leaf spot	375gm	500gm	500lt.	72
Paddy (Rice)	Blast	563gm	750gm	750lt.	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	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

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 10 kg seed)	30-35/10 kg seed	0.1	-
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, Early leaf 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
Carboxin 17.5% + Thiram 17.5% FF					
Wheat	Loose smut	8.75 to 10.5 gm	25 to 30 gm	100 ml	Seed treatment
Carboxin 37.5% + Thiram 37.5% WS					
Wheat	Loose smut and	2.25gm/Kg	3.0 gm/Kg	10 ml/kg (To make	Being

	other seed borne and early soil borne diseases	seed	seed	slurry)	seed treatment waiting not required
Soybean	Collar rot, Charcoal rot and other seedling diseases	2.25gm/Kg seed	3.0 gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment 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	Collar rot, Seed rot, Root rot, Stem rot	2.25gm/Kg seed	3.0gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Pigeon pea	Seed rot, Root rot, Stem rot, Fusarium wilt	3gm/Kg seed	4.0gm/Kg seed	10 ml/kg (To make slurry)	Being seed treatment waiting not required
Potato	Black scurf	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	7

Chilli	Powdery mildew, Anthracnose, Fruit rot	440 [^] (400+40)	1000	500	7
[^] 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
Cymoxanil 8%+ Mancozeb 64% WP					
Grapes	Downy mildew	1080-1440 gm	1500–2000 gm	500-1000	10 days
Potato	Late blight	1080 gm	1500 gm	500-750	10 days
Tomato	Late blight	1080 gm	1500 gm	500-750	10days
Cucumber	Downy mildew	1080 gm	1500 gm	500-600	10days
Citrus	Gemmosis (Foot Rot) (<i>Phytophthora palmivora</i>)	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
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
Famoxadone 16.6%+ Cymoxanil 22.1% 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
Fenamidone 4.44% + Fosetyl-AL 66.7% WDG					
Grape	Downy mildew	88.8+ 1334 - 111.0+ 1667.5 gm	2000-2500 gm	500-750 lt.	90 days
Fenamidone 10% + Mancozeb 50% WG					
Potato	Late blight	125+625- 150+750gm	1250-1500 gm	500 lt.	30
Grapes	Downy mildew	150+750 gm	1500 gm	500-750	85
Gherkin	Downy mildew	150+750 gm	1500 gm	375-500	5

Flubendiamide 3.5% + Hexaconazole 5% WG					
Paddy (Rice)	Sheath blight, Sheath rot	Flubendiamide-35 & Hexaconazole-50	1000	500	30
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% + Fosetyl aluminium 66.67% WG					
Grape	Downy mildew	(99.9 + 1500) to (111+ 1667)	2.25-2.5	750 ltr.	32
Fluopyram 17.7% w/w + Tebuconazole 17.7% w/w SC					
Grape	Powdery mildew and Anthracnose	Fluopyram 112.5 + Tebuconazole 112.5	562.5	750-1000	10
Chilli	Powdery mildew and Anthracnose	Fluopyram 100 + Tebuconazole 100	500	500	5
Rice (Paddy)	False smut, Dirty panicle	Fluopyram 110 + Tebuconazole 110	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 250 g/l + Pyraclostrobin 250 g/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
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.
Iprodione 25% + Carbendazim 25% WP					
Rice (Paddy)	Sheath blight, Blast	250 gm	500 gm	500 lt.	30
Kasugamycin 5% + copper oxychloride 45% WP					
Grapes	Anthraco-nose, 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
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
Metalaxyl M 4% + Mancozeb 64% WP					
Grapes	Downy mildew	0.17% or 1700 gm	0.25% or 2500 gm	500-1000	8
Potato	Late blight	0.17% or 1700 gm	0.25% or 2500 gm	500-1000	24
Black pepper	<i>Phytophthora</i> foot rot	0.17% or 1700 gm	0.25% or 2500 gm	2 L/vine as foliar spray and 3 L/vine as soil drench	Not less than 21 weeks
Mustard	Downy mildew, White rust	0.17% or 1700 gm	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%	0.2%	500	34
Tomato	Early blight, Late blight	0.073%	0.2%	500	5
Metalaxyl 8% + Mancozeb 64% WP					

Grapes	Downy mildew	2000 g or 0.4%	2500 g or 0.5%	500 lt.	Not less than 7 weeks
Tobacco Nursery	Damping off	3600 g or 0.072%	5000 g or 0.1%	1000 lt.	Not less than 7 weeks
	Leaf blight/ Black Shank (Soil drench at sowing and spray at 30 days after sowing)	1440 g or 0.14%	2000 g or 0.2%	1000 lt.	Not less than 7 weeks
Potato	Late blight	1800 gm or 0.18%	2500 gm or 0.25%	1000 lt.	Not less than 7 weeks
Mustard	White rust and Alternaria blight	1800 gm or 0.18%	2500 gm or 0.25%	1000 lt.	Not less than 8 weeks
Black Pepper	Phytophthora foot rot	1.8 g a.i./vine or 0.09%	2.5 gm/vine or 0.125%	2lt./vine (spraying) 5lt./vine (soil drenching)	Not less than 21 weeks
Pearl millet	Downy mildew	1440 gm or 0.28%	2000 gm or 0.4%	500lt.	Not less than 7 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
Black gram	Leaf spot 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, (<i>Rhizoctonia solani</i>) False smut, (<i>Ustilagoideia virens</i>) Dirty Panicle	200	1000	500	24
Wheat	Yellow Rust (<i>Puccinia striiformis sp. tritici</i>)	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 <i>Curvularia</i> sp., <i>Sarocladium oryzae</i> , <i>Phoma</i> sp., <i>Microdochium</i> sp., <i>Nigrospora</i> sp., <i>Fusarium</i> sp., etc.)	400.0 + 90.0	1000	500	15
Groundnut	Early leaf spot (<i>Cercospora arachidicola</i>), Late leaf spot (<i>Phaeoisariopsis personata</i>) & Rust (<i>Puccinia arachidis</i>)	300.0 + 67.5	750	500	19
Prochloraz 23.5% + 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 (<i>Rhizoctonia solani</i>), Wilt (<i>Fusarium</i> spp.)	0.18+ 0.045	3.0	-	Seed dresser
Groundnut	Stem rot (<i>Sclerotium rolfsii</i>), Collar rot (<i>Aspergillus niger</i>), Root rot (<i>Rhizoctonia bataticola</i>)	0.18+ 0.045	3.0	-	Seed dresser

Propiconazole 13.9% + Difenconazole 13.9% EC					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03%	(0.07-0.1%) 0.7-1.0 ml/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
Tebuconazole 6.7% + Captan 26.9% w/w SC					
Chilli	Powdery mildew and Anthracnose	80+320	1000	500	5
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
Tebuconazole 10% + Sulphur 65% 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
Thiophanate methyl 450 g/l + Pyraclostrobin 50 g/l FS					
Okra	Post emergent damping off (<i>Rhizoctonia spp</i>)	15	30	500	NA Seed dresser
Soybean	Seedling rot (<i>Sclerotium spp</i>)	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA Seed dresser
Groundnut	Stem rot (<i>Sclerotium spp</i>)	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA Seed dresser
Potato	Black scurf (<i>Rhizoctonia spp</i>)	10g/100 kg tuber	20/100 kg seed tuber	Sufficient to coat the seeds uniformly	NA Seed dresser

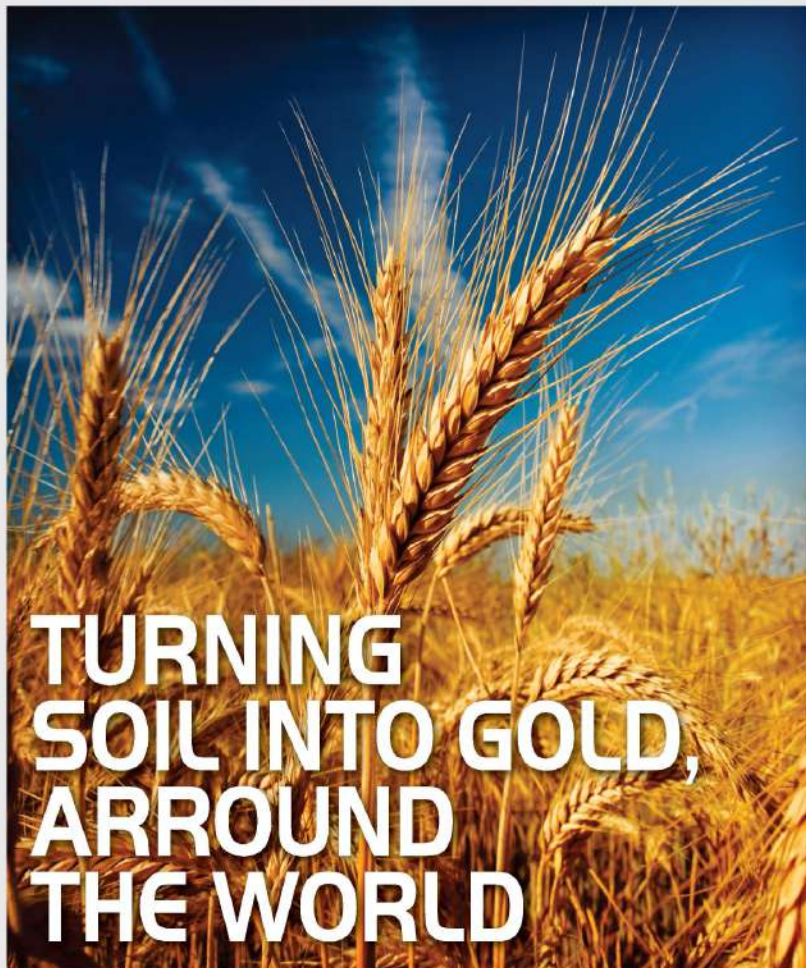
Chickpea	Wilt (<i>Fusarium oxysporum</i>) Root rot (<i>Rhizoctonia</i> spp.)	2.0	4.0	Sufficient to coat the seeds uniformly	NA Seed dresser
Tricyclazole 20.4% w/w + Azoxystrobin 6.8% w/w SC					
Rice (Paddy)	Blast, False smut, Sheath blight and Grain discoloration (Dirty Panicle)	300 (225+75)	1000	500	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

* 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)

(UPTO - 30/06/2021)

(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	<i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Cynodon dactylon</i> , <i>Ageratum conyzoides</i> , <i>Trianthema monogyna</i> , <i>Parthenium hysterophorus</i>	2.0 kg	2.5 kg	500	311
Anilofos 30% EC					
Transplanted paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i> <i>Marsilea quadrifoliata</i>	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Anilofos 18% EC					
Transplanted Paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i>	0.30-0.45 kg	1.66-2.5 kg	500-600	-

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

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

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

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

Clodinafop- propargyl 15%WP					
Wheat	<i>Phalaris minor</i> (<i>Canary grass</i>)	60gm	400 gm.	375-400	110
Clodinafop- propargyl 15% w/w DF					
Wheat	<i>Phalaris minor</i> (<i>Canary grass</i>)	60 gm	400	500	70
Clethodim 25% EC					
Soybean	<i>Grasses (Echinochloa spp,</i> <i>Digitaria spp and Cynadon</i> <i>dactylon)</i>	120-180	500-700 ml	500	62
Clomazone 50%EC					
Soybean	<i>Digitaria sp.</i> <i>Echinochloa sp.</i> <i>Parthenium hysterophorus</i> <i>Commelina sp.</i>	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria,</i> <i>Ludwigia parviflora</i> <i>,Eclipta alba</i>	0.4 – 0.5kg	0.8-1.0 ltr	500-750	90
Sugarcane	<i>Enchinochloa colonum</i> <i>Brachiaria repens</i> <i>Dactyloctenium aegyptium</i> <i>Trianthema portulacastrum</i>	0.75-1.00 kg a.i./ha	1.5-2.0 ltr/ha	500 Lit	296
Cyhalofop Butyl 10% EC					
Rice (Directed seeded)	(<i>Echinochloa spp.</i>) <i>Barnyard grass</i>	75-80 gm	0.75- 0.80ltr	500-600	90
2,4-D Dimethyl Amine salt 58% SL					
Maize	<i>Trianthema monogyna,</i> <i>Amaranthus sp.,</i> <i>Tribulus terrestris,</i> <i>Boerhaavia diffusa,</i> <i>Euphorbia hirta,</i> <i>Portulaca oleracea,</i>	0.5 kg	0.86	400-500	50-60

	<i>Cyperus sp.</i>				
Wheat	<i>Chenopodium album</i> , <i>Fumaria parviflora</i> , <i>Melilotus alba</i> , <i>Vicia sativa</i> , <i>Asphodelus tenuifolius</i> , <i>Convolvulus arvensis</i> ,	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	<i>Cyperus iria</i> , <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema sp.</i> , <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> .	1.8 kg	3.1	500-600	-
Potato	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> , <i>Anagalis arvensis</i> , <i>Convolvulus arvensis</i> , <i>Cyperus iria</i> , <i>Portulaca oleracea</i> .	500.30 kg	3.44	400	-
Sugarcane	<i>Cyperus iria</i> <i>Digitaria sp.</i> <i>Dactylactenium aegyptium</i> <i>Digera arvensis</i> <i>Portulaca oleracea</i> <i>Commelina benghalensis</i> <i>Convolvulus arvensis</i>	3.5	6.3	500	-
Aquatic Weeds Non crop area	<i>Eichhornia crassipes</i> .	0.5-1.0 kg	0.86-1.72	600-700	15-20
	<i>Parthenium hysterophorus</i> ,	500.30 kg	4.56	300-400	15-20
	<i>Cyperus rotundus</i>	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	<i>Euphorbia spp.</i> <i>Convolvulus arvensis</i> <i>Coronopus didymus</i> <i>Amaranthus viridis</i> <i>Oxalis corniculata</i> <i>Tribulus terrestris</i> <i>Fumaria parviflora</i> <i>Sonchus arvensis</i>	1.00-2.5 kg	1.25-3.2 kg	600	>6 months
Grapes	<i>Convolvulus spp.</i> <i>Tridax procumbens</i>	2.0	2.5	500	> 90 days
	<i>Amaranthus viridis</i> ,	500.30 Kg.	1.25	500	120(Pre-em)

Maize	<i>Trianthema portulacastrum</i> <i>Phyllanthus niruri</i> , <i>Euphorbia geniculata</i> , <i>Amaranthus spinosus</i> . <i>Cleome chelidonii</i> , <i>Lagasca mollis</i>				90(post-em)
Sugarcane	<i>Boerhaavia diffusa</i> <i>Chenopodium album</i> <i>Tribulus terrestris</i> <i>Portulaca oleracea</i> <i>Xanthium spp.</i> <i>Convolvulus arvensis</i> <i>Amaranthus spinosus</i> <i>Digera arvensis</i> <i>Celosia argentina</i> .	2.0-2.6	2.5-3.25	600-900	300
Wheat	<i>Leucas aspera</i> , <i>Chenopodium album</i> , <i>Vicia sativa</i> , <i>Argemone maxicana</i> , <i>Fimbristylis miliacea</i> , <i>Anagalis arvensis</i> , <i>Amaranthus spinosus</i> .	0.5-0.84 kg.	0.625-1.0	500	90
Aquatic Weeds	<i>Boerhaavia hispada</i> , <i>Eichhornia crassipes</i> .	1.5 kg	1.85.	600-1000	-
Non crop land	<i>Parthenium hysterophorus</i> , <i>Cyperus rotundus</i> , <i>Solanum elaeagnifolium</i> .	2.5-6.0 kg.	3.2-7.5	600-1000	-
		4-8 Kg	5-10	500-600	-
		1.8 kg	2.25	500-600	-
2,4-D Ethyl Ester 38 % EC (having 2,4-D acid 34 % w/w)					
Maize	<i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Portulaca oleracea</i> , <i>Tribulus terrestris</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Cyperus sp.</i>	0.9 kg	2.65 ltr	400-450	50-60
Sorghum	<i>Cyperus iria</i> , <i>Striga sp.</i> <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema sp.</i> , <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> .	500.30 kg	2.94	425	-

Transplanted Paddy	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> .	0.85 kg	2.5	400	-
Wheat	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> , <i>Fumaria parviflora</i> <i>Melilotus alba</i> . <i>Spergula arvensis</i>	0.45-0.75 kg	1.32-2.2	450-500	-
Sugarcane	<i>Cyperus iria</i> , <i>Digitaria sp.</i> , <i>Dactyloctenium</i> , <i>Aegyptiana</i> , <i>Digera arevensis</i> , <i>Portulaca oleracea</i> , <i>Commelina benghalensis</i> , <i>amaranthus sp.</i> , <i>Convolvulus arvensis</i>	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	<i>Eichhornia crassipes</i>	2.5 kg	7.5	700-1000	-
2,4-D Ethyl Ester 20 % WP					
Maize	<i>Trianthema sp.</i> <i>Euphorbia hirta</i> <i>Cyperus sp.</i>	0.9	5.0	625	-
Sorghum	<i>Convolvullas arvensis</i>				
Wheat	<i>Chenopodium slbum</i> <i>Malilots alba</i>				
Paddy	<i>Echinochloa colonum</i> <i>Echinochloa crusgalli</i>				
2,4-D Ethyl Ester 4.5 % GR (having 2,4-D acid 4 % w/w)					
Transplanted Rice	<i>Echinochloa Coloum</i> <i>E. Crusgalli</i> <i>Panium ischaemum</i> <i>Cynodon dactylon</i> (germinating) <i>Cyperus rotundus</i> (germinating) <i>Cyperus iria</i> <i>C. difformis</i> <i>Ludwigia parviflora</i> <i>Monochoria Vaginalis</i> <i>Marsilea quadrifoliata</i> <i>Cyanotis cucutata</i> <i>Eclipta alba</i> <i>Ammania baccifera</i>	500.30 kg	25 kg	-	-
Diclofop Methyl 28% EC					

Wheat	<i>Avena fatua,</i> <i>Phalaris minor</i>	0.7-1.0 kg	2.5-3.5 ltr	500	90
Diuron 80% WP					
Cotton	<i>Amaranthus spp,</i> <i>Chenopodium album,</i> <i>Convolvulus arvensis</i> <i>Setaria glauca,</i> <i>Digitaria sp,</i> <i>Portulaca oleracea,</i> <i>Xanthium strumerium,</i> <i>Anagallis arvensis,</i> <i>Asphodelus temifolius,</i> <i>Euphorbia sp,</i> <i>Visia sativa</i> <i>Paspalum conjugatum,</i>	0.75-1.5 kg	1-2.2Kg.	625	-
Banana	<i>Cyperus iria,</i> <i>Commelina benghalensis,</i> <i>Digitaria sp,</i> <i>Amaranthus</i> <i>spp,</i> <i>Dactyloctenium,</i> <i>Chloris barbata,</i> <i>Eragrostis zeylenica,</i>	1.60 kg	2 kg.	625	-
Rubber	<i>Grasses & Non grasses</i>	1.6-3.2 kg	2-4kg.	625	-
Maize	<i>Cyperus iria,</i> <i>Echinochloa spp,</i> <i>Digitaria spp,</i> <i>Chenopodium album,</i> <i>Eleusine sp,</i> <i>Amaranthus sp,</i> <i>Phyllanthus niruri</i>	0.8 kg	500.30 kg.	600	-
Citrus (sweet orange)	<i>Cyperus iria,</i> <i>Tribulus Terristris,</i> <i>Digera arvensis,</i> <i>Commelina nudiflora,</i> <i>Cocumis trigonus.</i>	2-4.0kg	2.5-5.0kg	600	-
Sugarcane	<i>Cyperus iria,</i> <i>Portulaca racea,</i> <i>Echinochloa rusgalli,</i> <i>Cynotis spp,</i> <i>Amaranthus spp,</i> <i>Convovulus Spp.,</i> <i>Digitaria spp.</i>	1.6-3.2kg	2.0-4.0 kg.	600	-
Grapes	<i>Cleome viscose,</i> <i>Chenopodium album.</i> <i>Cyperus iria,</i> <i>Euphorbia hirta,</i> <i>Alternanthera echinata,</i>	1.6kg	2.0 kg.	625	-

	<i>Amaranthus spp,</i> <i>Argemone maxicana,</i> <i>Ipomoea spp,</i> <i>Xanthium strumerium,</i> <i>Fumeria parviflora,</i> <i>Asphodelus tenuifolius,</i> <i>Medicago enticulate,</i> <i>Eleusine aegyptia.</i>				
Diclosulam 84% WDG					
Soybean	<i>Cyperus spp,</i> <i>Commilena benghalensis,</i> <i>Euphorbia geniculata,</i> <i>Digera arvensis,</i> <i>Acylipha spp,</i> <i>Echinochlo colona</i>	22-26gm	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	<i>Amaranlhus viridis,</i> <i>Parthenium hysterophorus,</i> <i>Trianthema sp.,</i> <i>Euphorbia enticulat,</i> <i>Cyperus spp.,</i> <i>Echinochloa colona</i>	22-26	26.2-30.9	-	77
Ethoxysulfuron 15% WDG					
Transplanted Rice.	<i>Fimbristylis miliacea</i> <i>Cyperus iria ,</i> <i>Cyperus difformis,</i> <i>Scirpus sp.,</i> <i>Eclypta alba,</i> <i>Marsilea quadrifoliata,</i> <i>Ammania baccifera,</i> <i>Monochoria vaginallis</i>	12.5-15gm	83.3- 100gm	500	110
Fenoxaprop-p-ethyl 9% w/w DF					
Transplanted Paddy	<i>Echinochloa crusgalli</i> <i>(barnyard grass),</i> <i>Echinochloa colona (jungle rice)</i>	56.25	625	500	65
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					

Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sp.</i> , <i>Eleusine indica</i> , <i>Setaria sp.</i> , <i>Brachiaria sp.</i>	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (enticulate)	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i>	56.25 gm	625 ml. (10-15 DAT)	300-375	70
Blackgram	<i>Echinochloa crusgalli</i> , <i>Echinochloa colona</i> <i>Digitaria sp.</i> <i>Dactyloctenium</i> <i>Aegyptium</i>	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43
Cotton	<i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium</i> <i>Aegyptium</i> <i>Eragrostis minor</i>	67.5 g	750ml. (20 -25 DAS)	375-500	87
Onion	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	78.75	875	375	10
Groundnut	<i>Echinochloa sp.</i>	78.75	875	375	89
Fenoxaprop-p-ethyl 10% EC					
Wheat	<i>Phalaris minor</i>	100-120gm	1.0-1.20 kg	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	<i>Echinochloa sp.</i>	56.6-60.38g	812.5-875	375-500	61
Fluazifop-p-butyl 13.4% EC					
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Eleusine indica</i> , <i>Cyanodon dactylon</i> , <i>Dactyloctenium Aegyptium</i> , <i>Digitaria sp.</i> , <i>Setaria sp.</i>	125-250 g	1000-2000	500	90

Cotton	<i>Echinochloa colonum</i> , <i>Digiteria longiflora</i> , <i>Eleusine indica</i> , <i>Dactylactenium</i> <i>aegypticum</i> , <i>Bracharia</i> <i>reptans</i> , <i>Dinebra Arabica</i> <i>spp.</i>				
Groundnut	<i>Echinochloa colonum</i> , <i>Digiteria longiflora</i> , <i>Eleusine indica</i> , <i>Dactylactenium</i> <i>aegypticum</i> , <i>Bracharia</i> <i>reptans</i> , <i>Chloris barbata</i> , <i>Aeluropus villosus</i> , <i>Indigofera glandulosa</i>				
Flucetosulfuron 10% WG					
Rice (Transplanted)	<i>Echinochloa colonum</i> <i>Echinolchloa crusgalli</i> <i>Digitaria sanguinalis</i> <i>Paspalum discichum</i> <i>Paspalum scrobiculatum</i> <i>Leersia hexandra</i> <i>Panicum repens</i> <i>Setaria glauca</i> <i>Dinebra retroflexa</i> <i>Cyprus difformis</i> <i>Cyprus iria</i> <i>Fimbristylis miliaceae</i> <i>Alternanthera</i> <i>philoxeroides</i> <i>Alternanthera enticul</i> <i>Marsilea quadrifolia</i> <i>Ammania baccifera</i> <i>Eclipta alba</i> <i>Eclipta prostrate</i> <i>Monochoria vaginalis</i> <i>Lindernia ciliate</i> <i>Ludwigia parviflora</i> <i>Sphenoclea zeylanica</i> <i>Commelina diffusa</i> <i>Cyanotis axillaris</i>	25	250	500	90
Fluchloralin 45% EC					

Cotton	<i>Acanthospermum hispidum</i> , <i>Cleome enticu</i> , <i>Datura sp.</i> <i>Trianthema monogyna</i> <i>Tridax procumbens</i> , <i>Cynodon dactylon</i> (germinating) <i>Amaranthus spp.</i> , <i>Portulaca spp</i> , <i>Achyranthus aspera</i> , <i>Euphorbia hirta</i> , <i>Cenchrus catharticus</i> , <i>Digitaria sanguinalis</i> , <i>Eleusine sp.</i> , <i>Panicum sp.</i> , <i>Lagasca mollis</i> , <i>Gynandropsis pentaphylla</i> , <i>Achalypha indica</i>	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180
Soybean	<i>Eragrostis sp.</i> , <i>Boerhaavia hispada</i> , <i>Cyperus compestris</i> ,	1.0-1.5kg.	2.22-3.33	500-800	120-150
Flufenacet 60% DF					
Paddy (Transplanted)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus iria</i>	120 gm	200 gm	500	90-110
Flumioxazin 50% SC					
Soybean	<i>Commelina benghalensis</i> , <i>Digera arvensis</i> , <i>Euphorbia spp.</i> , <i>Phyllanthus niruri</i> , <i>Echinochloa crusgalli</i>	125 g.a.i/ha	250ml/ha	500	110
Wheat	<i>Runnex spp.</i> , <i>Medicago denticulate</i> , <i>Coronopus didymus</i> , <i>Chenopodium album</i> , <i>Phalaris minor</i> , <i>Avena fatua</i>	125 g.a.i/ha	250 ml/ha	500	137
Fluthiacet Methyl 10.3% EC					

Soybean	<i>Commelina sp,</i> <i>Digeru arvensis,</i> <i>Acalypha indica,</i> <i>Amaranthus viridis.</i>	13.6	125	500	73
Glufosinate Ammonium 13.5% SL (15% w/v)					
Tea	<i>Panicum repens,</i> <i>Borreria hispida,</i> <i>Imperata cylindrical,</i> <i>Digitaria sanguinalis,</i> <i>Commelina benghalensis,</i> <i>Ageratum conyzoides,</i> <i>Eleusine indica,</i> <i>Paspalum conjugatum</i>	375-500 gm	2.5-3.3	375-500	15
Cotton	<i>Echinochloa sp.</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria marginata</i> <i>Dactyloctenium aegyptium</i>	375-450 gm	2.5-3.0	500	96
Glyphosate 20.2% SL IPA salt					
Non Crop area	<i>Phyllanthus niruri,</i> <i>Ageratum conyzoides,</i> <i>Parthenium hysterophorus,</i> <i>Sorghum halepense,</i> <i>Amaranthus spinosus,</i> <i>Alternanthera enticul,</i> <i>Cynodon dactylon,</i> <i>Cyperus rotundus,</i> <i>Echinochloa colonum,</i> <i>Trianthema portulacastrum</i>	0.82-1.23 kg	4.1-6.15	400-500	N/A
Glyphosate Ammonium salt 20 % SL					
Non Crop area	<i>Cynodon dactylon</i> <i>Commelina benghalensis</i> <i>Panicum spp.</i> <i>Dactyloctenium aegyptium</i> <i>Eragrostis major</i> <i>Poa anua</i> <i>Cyperus rotundus</i> <i>Parthenium hysterophorus</i> <i>Acalypha indica</i> <i>Digeria arvensis</i> <i>Phyllanthus niruri</i>	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-

	<i>Euphorbia enticulat</i> <i>Corchorus actangularis</i> <i>Saccharum spontenium</i> <i>Eleusine indica</i> <i>Imperata cylindrical</i> <i>Ageratum conzoides</i>				
Glyphosate 41% SL IPA Salt					
Tea	<i>Arundinella bengalensis</i> <i>Axonopus compressus</i> <i>Cynodon dactylon</i> <i>Imperata cylindrical</i> <i>Kalm grass</i> <i>Paspalum scrobiculatum</i> <i>Polygonum perfoliatum</i>	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	<i>Ageratum conyzoides</i> <i>Alternanthera enticul</i> <i>Commilina spp</i> <i>Cyperus spp</i> <i>Echinochloa sp.</i> <i>Eclipta alba</i> <i>Iscaemum rogosum</i> <i>Setaria spp</i>	1.8 kg	3.33 ltrs.	400-500	-
Glyphosate Ammonium Salt 5% SL					
Tea	<i>Ageratum conyzoides</i> <i>Biden pilosa</i> <i>Boreria latifolia</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> <i>Euphorbia spp.</i> <i>Imperata cylendrica</i> <i>Paspalum conjugatum</i>	1.5 kg.	30 ltrs.	500	7 days

Non Crop area	<i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digera arvensis</i> <i>Digitaria sanguinalis</i> <i>Eragrostis minor</i> <i>Euphorbia spp.</i> <i>Parthenium hysterophorus</i> <i>Tribulus terrestris</i> <i>Xanthium stremerium</i>	2 kg.	40 ltrs.	500	-
Glyphosate 71% SG (Ammonium Salt)					
Tea & Non Crop area	<i>Acalypha indica</i> <i>Ageratum conyzoides</i> <i>Cychorium intybus</i> <i>Digera arvensis</i> <i>Cynondon dactylon</i> <i>Cyperus rotunedus</i> <i>Digitaria sanguinalis</i> <i>Eragrostis spp.</i> <i>Ipomea digitarea</i> <i>Paspalum conjugatum</i> <i>Sida aculata</i>	2.13 kg	3.0 kg.	500	7
Halosulfuron Methyl 75% WG					
Sugarcane	<i>Cyperus rotundus</i>	60-67.5	80-90	375	294
Maize	<i>Cyperus rotundus</i> <i>Cyperus iria</i>	67.5	90	375	45
Bottle gourd	<i>Cyperus rotundus</i> <i>Cyperus iria</i>	67.5	90	375	46
Haloxypop R Methyl 10.5% w/w EC					
Soybean	<i>Brachiaria sp.</i> <i>Digitaria sanguinalis</i> <i>Dinebra enticu</i> <i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Eragrostis sp.</i> <i>Pnicum isochmi</i>	108-135	1000-1250	500	60
Imazethapyr 10% SL					

Soybean	<i>Cyperus difformis</i> <i>Echinochloa colonum</i> <i>E. crusgalli</i> <i>Euphorbia hirta</i> <i>Croton sperrisifeorus</i> , <i>Digera arvensis</i> , <i>Commelina</i> <i>Benghalensis</i>	100 gm	1.0 Ltr.	500-600	75
Groundnut	<i>Cyperus difformis</i> <i>Commelina</i> <i>benghalensis</i> , <i>Trianthema</i> <i>portulacastrum</i> , <i>Eragrostis pilosa</i>	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)	<i>Echinochloa colonum</i> <i>Brachiaria mutica</i> , <i>Euphorbia hirta</i> <i>Commelina benghalensis</i> <i>Dinebra enticu</i> , <i>Digitaria spp.</i> ,	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)	<i>Echinochloa colonum</i> <i>Euphorbia hirta</i> <i>Commelina benghalensis</i> <i>Digera arvensis</i> , <i>Amaranthus viridis</i> , <i>Physalis minima</i> .	100-150 gm+ MSO adjuvant @ 2ml/l of water	1000-1500 ml+ MSO adjuvant @ 2ml/l of water	375	102
Black gram	<i>Brachiaria eruciformis</i> <i>Amaranthus viridis</i> <i>Euphorbia hirta</i> <i>Commelina benghalensis</i>	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	56
Green gram	<i>Amaranthus viridis</i> <i>Trianthema portulacastrum</i> <i>Euphorbia hirta</i>	75 ga.i.lha+ MSO adjuvant @2 ml/litre of water	750 ml+MSO adjuvant @ 2ml/ha of water.	375	46
Red gram	<i>Digitaria sanguinalis</i> <i>Dinendra relroflexa</i>	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)	<i>Cyperus rotundus</i> <i>Echinochloa spp.</i> <i>Dinebra enticu</i> <i>Digera spp.</i> , <i>Brachiaria mutica</i> , <i>Commelina benghalensis</i> <i>Commelina communis</i> <i>Euphorbia enticulat</i> <i>Cyanotis axillaris</i>	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	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	2.0	750	-
Isoproturon 75% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	1.33 kg.	750	60 days
MCPA, Amine salt 40% WSC					
Transplanted Rice	<i>Cyperus rotundus</i> <i>Impmoea reptans</i> <i>Ammania baccifera</i> <i>Lippia nodiflora</i> <i>Alternanthera sp.</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i>	0.8-2.0 kg	2-5	400-600	
Wheat	<i>Chenopodium album</i> , <i>Asphodelus tenuifolius</i> <i>Fumaria parviflora</i> <i>Carthamus oxyacantha</i> <i>Launea sp.</i> , <i>Pluchia lanceolata</i> , <i>Melilotus indica</i> , <i>Vicia enticu</i> , <i>Lathyrus aphaca</i> , <i>Medicago enticulata</i> , <i>M. lupulina</i> , <i>Spergula arvensis</i> , <i>Argemone maxicana</i> , <i>Phyllathus niruri</i> .	1.0 kg	2.5	300-600	

Metamifop 10% EC					
Direct seeded Rice	<i>Barnyard grass (Echinochloa spp), Sacchirolepis Dactyloctenium, Digiteria, panicum</i>	100 g.a.i	1000 ml	350	87
Metamitron 70% SC					
Sugarbeet	Sedges & Grasses <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i> Broad Leaves <i>Convolvulus arvensis</i> <i>Chenopodium album</i> <i>Parthenium hysterophorus</i> <i>Digera arvensis</i>	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)	<i>Phalaris minor, Avena fatua, Avena ludoviciana, Poa annua,</i>	1.05-1.4kg	1.5-2.0 kg.	700-1000	100
Wheat (Post –EM 30 DAS)	<i>Polypogon monspiliensis, Anagallis arvensis, Chenopodium album</i>	1.05-1.75kg	2.0-2.5 kg.	700-1000	100
Wheat (Early POE.16-18 DAS)	<i>Phalaris minor, Avena fatua, Avena ludoviciana, Chenopodium album</i>	0.7-0.87 kg	1.0-1.25 kg.	700-1000	100
Metolachlor 50% EC					
S loybean	<i>Echinochloa colonum</i> <i>Eleusine indica</i> <i>Digitaria sp.</i> <i>Dactyloctenium aegyptium</i> <i>Panicum sp.</i> <i>Cyperus sp.</i> <i>Amaranthus viridis</i>	1.0 kg	2.0 ltrs.	600-750	-

Metribuzin 70% WP					
Soybean	<i>Digitaria spp.</i> <i>Cyperus esculentus</i> <i>Cyperus campestris</i> <i>Borreria spp.</i> <i>Eragrostis spp.</i>	0.35-0.525 kg	0.5-0.75kg.	750-1000	30
Wheat	<i>Phalaris minor</i> <i>Chenopodium album</i> <i>Melilotus spp.</i>	Medium soil-0.175kg Heavy soil - 0.21kg	0.25 kg 0.30 kg.	500-750	120
Sugarcane	<i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Astodelus fistulosus</i> , <i>Chenopodium album</i> , <i>Convolvulus arvensis</i> , <i>Portulaca oleracea</i> , <i>Anabalis servensis</i> , <i>C.intybus</i> , <i>Echinochloa colonum</i> , <i>Dactyloctenium aegyptium</i> , <i>Parthenium hysterophorus</i> , <i>Commelina spp.</i>	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	<i>Chenopodium album</i> , <i>Trianthema monogyna</i> , <i>Parthenium hysterophorus</i> , <i>Funaria parviflora</i> , <i>Melilotus spp.</i> , <i>Phalaris minor</i>	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	<i>Trianthema portacastrum</i> , <i>Dactylectonium aegypticum</i> , <i>Gynandropsis pentaphylla</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleveae</i> , <i>Digera arvensis</i> , <i>Euphorbia frustralis</i> ,	Pre-planting a week before transplanting Or	0.525	0.760	30

	<i>Echinochloa colonum</i> , <i>conyzoideae</i> , <i>Eleusine indica</i> , <i>S.glauca</i> , <i>Comelina bengalensis</i>	Port planting 15 DAT			
Metsulfuron Methyl 20% WP					
Wheat	<i>Chenopodium album</i> , <i>Melilotus indica</i> , <i>Lathyrus aphaca</i> , <i>Anagallis arvensis</i> , <i>Vicia sativa</i> , <i>Cirsium arvense</i> .	4 gm	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxethano 1 12.5%)@ 500 ml/ha	80
Rice (transplanted)	<i>Cyperus rotundus</i> , <i>Spheanochlea spp.</i> , <i>Fimbristylis sp.</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i>	4 gm.	20 gm.	500-600	60
Sugarcane	<i>Cyperus esculentus</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Parthenium hysterophorus</i> , <i>Trianthema sp.</i> , <i>Cleome viscosa</i> , <i>Solanum sp.</i> , <i>Commelina benghalensis</i> , <i>Euphorbia sp.</i> , <i>Digeria sp.</i>	6	30	500-600 (Add non - ionic surfactant Iso-octyl- phenoxy- poloxethanol 12.5% @ 2ml per liter of spray volume (0.2%)	346
Metsulfuron Methyl 20% WG					
Wheat	<i>Chenopodium album</i> <i>Melilotus indioca</i> <i>Melilotus alba</i> <i>Lathyrus aphaca</i> <i>Anagallis arvensis</i> <i>Vicia sativa</i> <i>Rumex denticulate</i> <i>Convolvulus arvensis</i> <i>Meedicago denticulate</i>	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	76

Transplanted Rice	<i>Monochoria vaginalis</i> <i>Ludwigia parviflora</i> <i>Ludwigia adscendens</i> <i>Marselea quadrifoliata</i> <i>Eclipta alba</i> <i>Oxalis minima</i> <i>Dapatorium junceum</i> <i>Commelina benghalensis</i> <i>Ammania baccifera</i> <i>Sphenoclea zeylanica</i> <i>Caesulia axillaries.</i>	4 gm	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	71
Orthosulfamuron 50% WG					
Transplanted Rice (Paddy)	<i>Echinochloa spp.</i> (Barnyard grass) <i>Cyperus spp.</i> (Nut grass) <i>Scirpus spp.</i> <i>Ludwigia parviflora</i> (water crest) <i>Fimbristylis spp.</i> (Hoor grass) <i>Rotala spp.</i>	60-75	150 3 DAT	500	65
Oxadiargyl 80% WP					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>E. Colomum,</i> <i>Cyperus iria,</i> <i>C. difformis,</i> <i>Eclipta alba,</i> <i>Ludwigia quadrifoliata</i>	100	125	500	97
Sunflower	<i>Echinochloa colomum</i> <i>Dactyloctenium aegyptium</i>	240	300	500	81
Oxadiargyl 6%EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colomum,</i>	100gm	1.66 ltrs	500	97
Cumin	<i>Cyperus iria,</i> <i>cyperus</i> <i>difformis,</i> <i>Eclipta alba</i> <i>Ludwigia quadrifoliata</i> <i>Chenopodium album</i> <i>Remex sp.,</i> <i>Melilotus indica,</i> <i>Asphodelus tenuifolius</i>	60-75gm	1.0-1.25 ltrs.	500	87
Mustard	<i>Chenopodium album,</i> <i>Melilotus sp</i>	90	1500	500	35

Oxadiazon 25% EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> E. <i>colonum</i> <i>Cyperus iria</i> C. <i>difformis</i> <i>Marsilea</i> <i>quadrifoliata</i> , <i>Eclipta alba</i> , <i>Ludwigia sp.</i>	0.5kg	2.0 ltrs.	500	-
Oxyflourfen 0.35% GR					
Rice (Direct sown puddled or Transplanted)	<i>Echinochloa sp.</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Fimbristylis miliacia</i> , <i>Marsilea spp</i>	100-150 gm	30-40 kg.	-	-
Oxyflourfen 23.5% EC					
Rice (Direct sown as pre-emergence)	<i>Echinochloa sp.</i> <i>Cyperus iria</i> , <i>Eclipta alba</i> ,	150-240 gm	650-1000	500	-
Tea	<i>Digitaria</i> , <i>Imperata</i> , <i>Paspalum</i> , <i>Borreria hispida</i> ,	150-250 gm	650-1000	500-750	15 days
Onion	<i>Chenopodium album</i> , <i>Amaranthus viridis</i> ,	100-200 gm	425-850	500-750	-
Potato	<i>Chenopodium</i> , <i>Coronpus Trianthema</i> , <i>Cyperus</i> , <i>Heliotropium</i>	100-200 gm	425-850	500-750	-
Groundnut	<i>Echinochloa colonum</i> <i>Digitaria arginata</i>	100-200 gm	425-850	500-750	-
Mentha	<i>Echinochloa colona</i> , <i>Cyperus spp.</i> , <i>Solanum nigrum</i> , <i>Amaranthus viridis</i> , <i>Sphenochlea sp.</i> , <i>Anagallis arvensis</i> , <i>Chenopodium album</i> , <i>Commelina benghalensis</i> , <i>Digitaria sanguinalis</i> , <i>Eclipta alba</i> , <i>Euphobia spp.</i> , <i>Ludwigia parviflora</i> ,	206	904.3	500	10

	<i>Portulaca spp.</i>				
Pendimethalin 30% EC					
Wheat	<i>Phalaris minor,</i> <i>Chenopodium album,</i> <i>Melilotus alba,</i> <i>Portulaca oleracea,</i> <i>Anagallis arvensis,</i> <i>Fumaria parviflora,</i> <i>Poa annua</i>	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)	<i>Echinochloa colona,</i> <i>E. crusgalli,</i> <i>Fimbristylis miliacea,</i> <i>Marselia quadrifoliata,</i> <i>Alternanthera sessilis,</i> <i>Ammonia baccifera,</i> <i>Ludwigia parviflora,</i> <i>Eclipta alba,</i> <i>Cyperus difformis</i>	Light to Heavy soil 1-1.5kg	3.3 –5 Ltrs.	500-700	
Cotton	<i>Echinochloa spp.</i> <i>Euphorbia hirta</i> <i>Amaranthus viridis</i> <i>Portulaca oleracea</i> <i>Trianthema spp.</i> <i>Eleusine indica</i>	0.75-1.25kg	2.5-4.165 ltrs	500-700	150
Soybean	<i>Echinochloa spp.,</i> <i>Euphorbia spp.,</i> <i>Amaranthus viridis,</i> <i>Portulaca oleracea,</i> <i>Trianthema spp.,</i> <i>Eleusine indica</i>	0.75-1.0kg	2.5-3.3 ltrs.	500-700	110
Pigeon pea	<i>Digitaria sanguinalis</i> <i>Digera arvensis</i> <i>Amaranthus sp.</i> <i>Euphorbia hirta</i> <i>Trianthema sp.</i> <i>Cyperus sp.</i> <i>Eragrostis sp.</i>	0.7 – 1.00	2.5 – 3.33	500	133
Pendimethalin 5 % G					

Rice (Transplanted & Direct sown puddled)	<i>Echinochloa colona</i> , <i>E. crusgalli</i> , <i>Fimbristylis miliacea</i> , <i>Marselia quadrifoliata</i> , <i>Alternanthera sessilis</i> , <i>Ammonia baccifera</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i>	1.0-1.5 kg	20-30 kg	-	-
Pendimethalin 38.7% CS					
Soybean	<i>Echinochloa colonum</i> <i>Dinebra arabiaca</i> <i>Digitaria sanguinalis</i> <i>Bracharia mutica</i> <i>Dactyloctenium aegyptium</i> <i>Portulaca oleracea</i> <i>Amaranthus viridis</i> <i>Euphorbia geniculata</i> <i>Cleome viscosa</i>	580.5- 677.25gm	1500-1750	500	40
Cotton	<i>Digitaria sanguinalis</i> , <i>Echinochloa colonum</i> , <i>Dinebra arabiaca</i> , <i>Bracharia mutica</i> , <i>Eragratis minor</i> , <i>Portulaca oleracea</i> , <i>Commelina communis</i> , <i>Amaranthus spp.</i> , <i>Parthenium hysterophorus</i>	580.5- 677.25gm	1500-1750	500	101
Chilli	<i>Echinochloa colonum</i> , <i>Dinebra arabiaca</i> , <i>Bracharia mutica</i> , <i>Amaranthus spp.</i> , <i>Portulaca oleracea</i> , <i>Commelina spp.</i> , <i>Parthenium hysterophorus</i> , <i>Digera arvensis</i> , <i>Physalis minima</i>	580.5- 677.25gm	1500-1750	500	98

Onion		<i>Dactyloctenium aegyptium</i> <i>Digitaria sanguinalis</i> , <i>Echinochloa sp.</i> , <i>Dinebra Arabic</i> , <i>Portulaca oleracea</i> , <i>Euphorbea geneculata</i> , <i>Commelina sp.</i> , <i>Digera arvensi</i> , <i>Amaranthus viridis</i> , <i>Trianthemut portulacastrum</i>	580.50-677.25gm	1500-1750	500	104
Groundnut		<i>Echinochloa colonum</i> , <i>Digitaria marginata</i> , <i>Commelina bengalensis</i> , <i>Portulaca oleracea</i>	580.5-677.25gm	1500-1750	375	103
Mustard		<i>Chenopodium album</i> , <i>Digera arvensis</i> , <i>Amaranthus species</i>	338.625 gm	875	375-400	111
Cumin		<i>Portulaca oleracea</i> , <i>Digitaria spp.</i> , <i>Digera arvensis</i>	580.5-677.25 gm	1500- 1750	375-500	91
Pinoxaden 5.1% EC						
Wheat		<i>Phalaris minor</i> (Canary grass) <i>Avena ludoviciana</i> (Wild oat)	40-45 g	800-900 ml 30-35 DAS	225-300	90
Penoxsulam 21.7 % SC						
Rice (Transplanted)		<i>Ammania bacifera</i> , <i>Cyperus difformis</i> , <i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia spp.</i> <i>Monochoria spp.</i> <i>Sphenecolea zeylanica</i> ,	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)	Grasses	<i>Echinochloa Colona</i> <i>Echinochloa Crusagalli</i>	22.5-25	900-1000	300-500	60
	Sedges	<i>Cyperus difformis</i>				

Rice)	Broad Leaved Weeds	<i>Caesulia axillaris</i>		ml/ha		
Pretilachlor 37%EW						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Digitaria sanguinalis</i> <i>Fimbristylis miliacae</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Monochoria vaginalis</i>	0.60-0.75 kg	1.5-1.875 ltrs.	500	90	
Pretilachlor 30.7% EC						
(Direct seeded rice under puddled condition)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i>	0.45-0.60kg.	1.5-2.0 ltr.	500	110	
Pretilachlor 50% EC						
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliacae</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Monochoria vaginalis</i> <i>Leptochloa chinensis</i> <i>Panicum repens</i>	0.50-0.75 kg.	1.0-1.5 ltrs.	500-700	75-90	
Propaquizafop 10% EC						
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium egyptium</i> , <i>Eleusine indica</i>	50-75 g	500-750	500-750	21	
Blackgram	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium egyptium</i> , <i>Eleusine indica</i>	75-100 g	750-1000	500-750	21	

Onion	<i>Echinochloa colonum</i> , <i>Digitaria sanguinalis</i> , <i>Dactyloctenium egyptium</i> , <i>Phalaris minor</i>	62.5	625	500	7
Propanil 35% EC					
Potato	<i>Signal Grass (Brachiaria ramose)</i> , <i>Lamb's Quarter (Chenopodium album)</i> , <i>Sweet clover (Melilotus spp.)</i> , <i>Moora grass (Fimbristylis miliacea)</i> , <i>Pill pod spurge (Euphorbia hirta)</i> , <i>Pea-vine (Bathyrus aphaca)</i> , <i>Prockly poppy (Argemone inexciana)</i>	1.0 Early post-emergence to weeds (12-15 DAS), Blanket spray	3.0	400-600	90
Rice	<i>Barnyard grass (Echinochloa crusgalli, E.colonum)</i> , <i>Nut grass (Cyperus difformis, C.iria)</i>	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	<i>Echinochloa colonum</i> (wild rice). <i>Echinochloa crusgalli</i> (barnyard grass) <i>Panicum repens</i> (bullet grass) <i>Brachiaria mutica</i> (para grass) <i>Digitaria sanguinalis</i> (hairy crabgrass) <i>Leptochloa chinensis</i> (red sprangletop) <i>Eclipta alba</i> (False daisy) <i>Commelina spp.</i> , <i>Ludwigia parviflora</i> (water crest) <i>Cyperus spp.</i>	2000-3000	2500-3750	375	84

Paraquat dichloride 24% SL					
Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Imperata Setaria sp., Commelina benghalensis, Boerraria hispida, Paspalum conjugatum,</i>	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, use 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)	<i>Chenopodium sp. Angallis arvensis Trianthema monogyna Cyperus rotundus Fumeria parviflora</i>	0.5 kg	2.0 ltr.	500	100
Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Digera arvensis, Cyperus iria, Trianthema monogyna, Corchorus spp., Leucas aspera, Euphorbia spp.</i>	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)	<i>Digitaria sp., Eragrostis sp., Fimbristylis sp.</i>	0.3-0.6 kg	1.5-2.5	600	N.A.
Coffee	<i>Digitaria marginata, paspalum Conjugatum, Ageratum, Conyzides, Borreria hispida, Euphorbia hirta, Commelina benghalensis, Eleusine indica</i>	250	1.0	400	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	<i>Echinochloa crusgalli, Cyperus iria, Ageratum conyzides, Commelina benghalensis, Marsilea quadriofoliata, Brachiaria mutica</i>	0.3-0.8 kg	1.25-3.5	500	N.A.
Wheat [pre-plant (minimum tillage) before sowing]	<i>Grassy & Broad leaf weeds</i>	1.0 kg	4.25 ltrs	500	120-150

Maize [pre-plant (minimum tillage) before sowing]	<i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> , <i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Echinochloa sp</i>	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)	<i>Cyperus iria</i> , <i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> <i>Amaranthus sp.</i> <i>Echinochloa sp</i> <i>Trianthema monogyna</i>	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)	<i>Cyperus rotundus</i> <i>Cynodon dactylon</i> <i>Convolvulus sp.</i> <i>Portulaca sp.</i> <i>Tridax sp.</i>	0.5 kg.	2.0ltrs.	500	90
Apple (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Rosa moschata</i> <i>Rosa eglantaria</i> <i>Rubus ellipticus</i>	0.75 kg	3.25 ltrs	700-1000	N.A.
Aquatic weed control					
Water ways	<i>Eichhornia crassipes</i>	1000	4.25	600-1000	N.A
Canals,	<i>Hydrilla</i>	1000	4.25	600	
Ponds	<i>Typha latifolia</i>	1000-2000	4.25-8.5	600-1000	
Etc					
Pyroxasulfone 85% w/w WG					
Maize	<i>Echinochloa crusgalli</i> , <i>Eleusine indica</i> , <i>Phyllanthus niruri</i>	127.5	150	500	103
Wheat	<i>Phalaris minor</i>	127.5	150	500	131
Soybean	<i>Echinochloa colonum</i> , <i>Celosia argentia</i> , <i>Trianthema porulacastrum</i> , <i>Amarthanas viridis</i> , <i>Digeria arvensis</i>	127.5	150	500	94
Pyrazosulfuron Ethyl 10% WP					
Transplanted Rice	<i>Cyperus Iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Monochoria vaginalis</i> , <i>Ludwigia parviflora</i>	10-15 g	100-150	500-600	95

Pyrithiobac Sodium 10% EC					
Cotton (Gossypium)	<i>Trianthema Spp</i> <i>Amaranthus Spp</i> <i>Chenopodium Spp</i> <i>Digera Spp</i> <i>Celosia argentia</i>	62.5-75 gm	625-750	500	160
Pyrozosulfuron Ethyl 70% WDG					
Transplanted Rice	<i>Echinicloa spp,</i> <i>Cyperus rotundus,</i> <i>Ludwigia parviflora</i>	21g	-	-	43
Quizalofop-ethyl 5% EC					
Soybean	<i>Echinochloa crusgalli</i> <i>E. colomum</i> <i>Eragrostis sp.</i>	37.5-50 gm.	0.75-1.0	500-600	95
Cotton	<i>Echinolchloa crusgalli,</i> <i>Echinochloa colonum,</i> <i>Dinebra retroflexa</i> <i>Digiteria marginata</i>	50.5	1000	500	94
Groundnut	<i>Echinochloa colonum,</i> <i>Dinebra retroflexa</i> <i>Dactyloctenium sp.</i>	37.5-50.0	750-1000	500	89
Black gram	<i>Eleusine indica,</i> <i>Dactyloctenium aegyptium,</i> <i>Digitaria sanguinalis,</i> <i>Eragrostis sp.,</i> <i>Paspalidium sp.,</i> <i>Echinochloa sp.,</i> <i>Dinebra ratroflexa</i>	37.5-50.0	750-1000	500	52
Onion	<i>Digitaria sp.,</i> <i>Eleusine indicia,</i> <i>Dactyloctenium aegyptium,</i> <i>Eragrostis sp.,</i>	37.5-50.0	750-1000	375-450	7
Quizalofop-ethyl 10% EC					
Soyabean	<i>Love grass (eragrostis</i> <i>ipilosa),</i> <i>Crab grass (digitaria</i> <i>sanguinalis/ wild finger/</i> <i>Makra grass Viper grass,</i>	375-45.0	375-450	300-500	69-103

	<i>Barnyard grass,</i> <i>sanwa/Samel,</i> <i>Brown top millet</i>				
Quizalofop –p-tefuryl 4.41% EC					
Soybean	<i>Echinochloa spp.</i> <i>Dinebra arabica</i> <i>Digitaria sanguinalis</i> <i>Cynodon dactylon</i> <i>Hemarthria compressa</i> <i>Eleusine indica</i>	30-40 gm	750-1000 ml	400	30
Sulfentrazone 39.6% w/w SC					
Soybean	<i>Acalypha sp.,</i> <i>Commelina sp.,</i> <i>Digera sp.,</i> <i>Cyperus sp.</i> <i>Echinochloa sp.,</i> <i>Brachiaria sp.,</i> <i>Dinebra sp.</i>	360	750	500	88
Sugarcane	<i>Trianthema sp.,</i> <i>Digera spp.,</i> <i>Amaranthus spp.,</i> <i>Phyllanthus spp.,</i> <i>Euphorbia spp.,</i> <i>Dacteloctenium spp.,</i> <i>Digitaria spp.,</i> <i>Brachiaria spp.,</i> <i>Echinochloa spp.,</i> <i>Cynodon spp.,</i> <i>Cyperus spp.</i>	720	1500	500	306
Sulfosulfuron 75% WG					
Wheat	<i>Phalaris minor</i> <i>Chenopodium sp.</i> <i>Melilotus alba</i>	25 gm	33.3 gm	200-250 + Cationic surfactant 1250ml/ha	110
Tembotrione 34.4% SC					
Maize	<i>Trianthema portulacastrum,</i> <i>Echinochloa sp.</i> <i>Bracharia sp.</i>	120g	286ml	500L	55

Triallate 50% EC					
Wheat	<i>Avena fatua</i>	1.25 kg	2.5 kg.	250-500	150
Triasulfuron 20% WG					
Wheat	<i>Chenopodium album,</i> <i>Anagallis arvensis,</i> <i>Medilotus alba,</i> <i>Rumex spp,</i> <i>Medicago denticulata,</i> <i>Fumeria pomiflora,</i> <i>Cronopus didymus,</i> <i>Spergula arvensis</i> <i>Malvela perviflora</i>	20	100	500	81
Tea	<i>Ageratum conyzoides,</i> <i>Borreria spp.,</i> <i>Crassocephalum</i> <i>crepidiodes,</i> <i>Oxalis spp.,</i> <i>Bidens pilosa,</i> <i>Conyza ambigua,</i> <i>Drymaria diandra,</i> <i>Emillia sonchifolia,</i> <i>Mitracarpus verticilatus,</i> <i>Syndnedrella nodiflora.</i>	25	125	500	7
Topramezone 336 g/l w/v SC					
Maize	<i>Elusine indica,</i> <i>Digitaria sanguinalis,</i> <i>Dactyloctenium aegyptium,</i> <i>Echinochloa spp.,</i> <i>Chloris barbata,</i> <i>Parthenium hysterophorus,</i> <i>Digera arvensis,</i> <i>Amaranthus viridis,</i> <i>Physalis minima,</i> <i>Alternanthera sessilis,</i> <i>Convolvulus arvensis,</i> <i>Celotia argentea.</i>	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	<i>Echinochloa colona</i> , <i>Cyanodon dactylon</i> , <i>Cyperus rotundus</i> , <i>Amaranthus viridis</i> , <i>Trianthema spp.</i> and <i>Digitaria sanguinalis</i>	937.5-1125	1250-1500	500	221
Anilofos 24% +2,4-D ethyl Ester 32% EC					
Transplanted rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Ischaemum rugosum</i> <i>Fimbristylis miliacea</i>	(0.24+ 0.32) to (0.36 + 0.48) kg	1-1.5 ltrs.	300	90
Bensulfuron methyl 0.6%+Pretilachlor 6% GR					
Transplanted Rice	<i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Cynodon dactylon</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Cyperus rotundus</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Marselia quadrifolia</i> , <i>Enhydra fluctuans</i> , <i>Sphenoclea zeylanica</i> , <i>Eclipta alba</i> , <i>Ammania baccifera</i> .	60 + 600 gm	10 kg	N.A.	88
Bispyribac Sodium 20% + Pyrazosulfuron Ethyl 15% WDG					
Rice	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> <i>Eclipta alba</i> , <i>Cyperus rotundus</i>	20+15	100	500	130
Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW					
Tea	<i>Ageratum conyzoides</i> <i>Bidenspilosa</i> <i>Borreria sp.</i> <i>Crassocephalum</i> <i>epidioides</i> <i>Cynadon sp.</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i>	12.90 +924.60	3000	500	7

	<i>Eleusine indica</i> <i>Mimosa sp.</i> <i>Mitracarpus villosus</i> <i>Oxalis sp.</i>				
Non-cropped area	<i>Ageratum conyzoides</i> <i>Axonopus sp.</i> <i>Brachiaria sp.</i> <i>Commelina sp.</i> <i>Cynodon dactylon</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Imperata cylindrica</i> <i>Lantana camera</i> <i>Parthenium sp.</i>	12.90 +924.60	3000	500	--
Carfentrazone ethyl 20% + Sulfosulfuron 25% WG					
Wheat	<i>Phalaris minor</i> <i>Avena ludoviciana</i> <i>Chenopodium album</i> <i>Medilotos alba</i> <i>Rumex spp</i>	20+25 +750 ml Surfactant	100	300	110
Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP					
Wheat	<i>Phalaris minor,</i> <i>Avena fatua,</i> <i>Chenopodium album,</i> <i>Melilotus sp.,</i> <i>Fumaria parviflora,</i> <i>Vicia sativa,</i> <i>Rumex sp.,</i> <i>Anagallis arvensis,</i> <i>Coronopus didymus,</i> <i>Lathyrus sp.,</i> <i>Convolvulus arvensis</i>	60+4	400	375 (Add 1250 ml surfactant at the time of spraying)	100
Clodinafop propargyl 9% + Metribuzin 20% WP (W/W)					
Wheat	<i>Phalaris minor</i> <i>Chenopodium album,</i> <i>Melilotus sp</i> <i>Vicia sativa,</i> <i>Rumex sp</i> <i>Medicago sp</i> <i>Cronopus didymus</i> <i>Dinebra vetroflexa</i>	54+120	600	300	120
Clomazone 20%+2,4-D EE 30% EC					
	<i>Echinochloa colonum,</i> <i>Echinochloa crusgalli,</i> <i>Cyperus iria,</i>	0.250-0.375 Kg	1.25 ltrs.	500	100-110

Transplanted Rice	<i>Cyperus difformis</i> , <i>Eclipta alba</i> , <i>Leptochloa chinensis</i> , <i>Panicum repens</i> , <i>Fimbristylis miliacea</i> , <i>Marsilea quadrifoliata</i> , <i>Ludwigia parviflora</i> .				
Clomazone 22.5% w/w + Metribuzin 21% w/w WP					
Sugarcane	<i>Trianthema Spp.</i> <i>Amaranthus viridis</i> <i>Phyllanthus niruri</i> <i>Bracharia Spp.</i> <i>Dactyloctenium aegyptium</i> <i>Echinochloa spp.</i> <i>Digitaria Spp.</i> <i>Cynodon dactylon</i>	563 + 525	2500	500L	307 days
Fenoxaprop-p-ethyl 7.77% w/w + Metribuzin 13.6% w/w EC					
Wheat	<i>Phalaris minor</i> (Little seed canary grass) <i>Chenopodium album</i> (Lambs quarter) <i>Lathyrus aphaca</i> (Meadow Pea) <i>Rumes Sp.</i> (Golden dock) <i>Melilotus spp.</i> (Sweet clover) <i>Avena ludoviciana</i> .	100+175	1250	375	110
Fluazifop-p-butyl 11.1% w/w + Fomesafen 11.1% w/w SL					
Soybean	<i>Echinochloa colona</i> <i>Digitaria sp</i> <i>Eleusine indica</i> <i>Dactyloctenium aegyptium</i> <i>Brachiaria reptans</i> <i>Commelina benghalensis</i> <i>Digera arvensis</i> <i>Trianthema sp.</i> <i>Phyllanthus niruri</i> <i>Acypha indica</i> <i>Dinebra arbica</i>	250	1000	500	71
Groundnut	<i>Echinochloa colona</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium aegyptium</i> <i>Commelina benghalensis</i>	250	1000	500	82

	<i>Eluopus villosus</i> <i>Indigofera glandulosa</i> <i>Chloris barbata</i> <i>Trianthema sp.</i> <i>Digera arvensis</i> <i>Cleome viscosa</i> <i>Phyllanthus niruri</i> <i>Amaranthus viridis</i> <i>Cyperus sp.</i>				
Fomesafen 12 % + Quizalofop ethyl 3% w/w SC					
Soybean	<i>Echinochloa colona,</i> <i>Eleusine indica,</i> <i>Doctyloctenium aegyptium,</i> <i>Digitaria sanguinalis,</i> <i>Cyperus rotundus</i>	180+45	1500	500	71
Hexazinone 13.2% + Diuron 46.8 % WP					
Sugarcane	<i>Enchinochloa colonom</i> <i>Dactyloctenium aegyptium</i> <i>Trianthema monogyna</i> <i>Amaranthus viridis</i> <i>Ipomea spp</i> <i>Cyperus rotundus</i> <i>Cyperus esculentus</i> <i>Setaria spp</i> <i>Parthenium hysterophorus</i> <i>Euphorbia hirta</i>	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	<i>Ageratum sp.</i> <i>Borreria sp.</i> <i>Eleusine indica</i>	50+1000 to 70 + 1400 g.a.i/ha	2500 to 3500 ml/ha	500 L	14 days
Imazethapyr 35% + Imazamox 35% WG					
Soybean	<i>Echinochloa Colonom,</i> <i>Dinebra Arabica,</i> <i>Digitaria sanguinalis,</i> <i>Brachiaria mutica</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	56

Groundnut	<i>Echinochloa Colonom</i> , <i>Digira arvensis</i> , <i>Commelina benghalensis</i> <i>Euphorbia hirta</i> <i>Amaranthus viridis</i> <i>Physalis minima</i> <i>Brachiria Spp.</i> <i>Trianthema</i> <i>portulacastrum</i>	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	<i>Echinochloa colonum</i> , <i>Euphorbia spp.</i> , <i>Digitaria arvensis</i> , <i>Amaranthus viridis</i> .	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	500	64
Red gram	<i>Euphorbia spp.</i> , <i>Amaranthus viridis</i> .	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	<i>Phalaris minor</i> <i>Medicago denticulata</i> <i>Chenopodium album</i> <i>Melilotus sp.</i> <i>Rumex sp.</i> <i>Anagallis arvensis</i> <i>Coronopus didymus</i> <i>Lathyrus aphaca</i> <i>Fumaria parviflora</i>	(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	<i>Trianthema spp.</i> , <i>Cyperus spp.</i> <i>Digitaria sanguinalis</i> , <i>Echinochloa spp.</i> <i>Dactyloctenium aegyptium</i>	875 gm	3500	500	42
Sugarcane	<i>Trianthema spp.</i> <i>Amaranthus viridis</i> , <i>Echinochloa colona</i> , <i>Digitaria sanguinalis</i> <i>Cyperus rotundus</i> , <i>Dactyloctenium aegyptium</i>	875 gm	3500	500	190
Metribuzin 42% + Clodinafop propargyl 12% WG					

Wheat	<i>Phalaris minor</i> (Canary grass), <i>Avena spp.</i> (Wild oat), <i>Chenopodium album</i> (Fat hen), <i>Melilotus sp.</i> (Sweet clover), <i>Medicago denticulate</i> (Toothed medic), <i>Rumex spp.</i> (Wild spinach), <i>Anagallis arvensis</i> (Blue Pimpernel)	210+60	500	375	92
Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP					
Transplanted Rice (Pre-emergence application-3 DAT)	<i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Cyanotis axillaries</i> , <i>Monocoria vaginalis</i> , <i>Marsilea quadrifoliata</i> ,	4gm	20 gm.	300	90
Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF					
Wheat	<i>Rumex dentatus</i> <i>Rumex spinosus</i> <i>Medicago denticulate</i> <i>Malva parviflora</i> <i>Lathyrus aphaca</i> <i>Chenopodium album</i> <i>Melilotus alba</i> <i>Melilotus indica</i> <i>Anagallis arvensis</i> <i>Solanum nigrum</i> <i>Vicia sativa</i> <i>Convolvulus arvensis</i>	25	50	300	100
Oxyflurofen 2.5% + Glyphosate (Isopropyl amime salt)41% SC(w/w)					
Tea	<i>Ageratrum Conyzoids</i> <i>Cyperous sp</i> <i>Borreriabispida</i> <i>Pospalumcon jugatum</i> <i>Digitaria ciliaris</i>	50+820	2000	500L/ha.	14
Non Crop area	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cynodon d actylon</i> (Dhoob grass) <i>Paspalum conjugalum</i> (Hilo grass)	78.125+128 1.25	3125	500	-

	<i>Cyperus spp.</i> , (<i>Purplenut shedge</i>) <i>Digeria aruensis</i> (<i>False Amaranth</i>)				
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	<i>Echinochloa crusgalli</i> <i>Digeria arvensis</i> <i>Commelina benghalensis</i> , <i>Amaranthus viridis</i> <i>Portulaca oleracea</i>	(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	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Marsilia quadrifoliata</i> , <i>Alternanthera spp.</i>	820 g.a.i/ha	2000ml/ha	750	60
Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD					
Rice (Direct seeded Rice)	<i>Echinochloa colona</i> <i>Echinochloa crusgalli</i> <i>Leptochloa chinesis</i> <i>Eleusine indica</i> <i>Alternanthera sessilis</i> <i>Caesulia axillaris</i> <i>Cyperus spp</i>	120-135	2000-2250	300-500	60
Rice (Transplanted Rice)	<i>Echinochloa colona</i> <i>Echinochloa crusgalli</i> <i>Leptochloa chinesis</i> <i>Caesulia axillaris</i> <i>Cyperus difformis</i> <i>Cyperus spp</i>	120-135	2000-2250	300-500	60
Pendimethalin 35% + Metribuzin 3.5% w/w SE					

Wheat	<i>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)</i>	875 +87.5 to 1050 + 105 gm	2.5-3.0	500	123
Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC					
Transplanted Rice	<i>Echinochloa colona (wild rice), Echinochloa crus galli (banyard grass), Marsilea quadrifolia (common water clover), Ludwigia parviflora (water crest), Cyperus difformis (common sedge), Cyperus spp.</i>	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	<i>Echinochloa Colonum Echinochloa Crusagalli Ludwigia paviflora, Elipta alba, Leptochloa chinensis, Monochoria vaginalis, Cyperus difformis, Cyperus iria, Fimbristylis miliaceae</i>	600	10	-	83
Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG					

Paddy (Direct seeded Rice)	<i>Echinochloa colona</i> , <i>Eleusine indica</i> , <i>Leptochloa chinensis</i> , <i>Abernanthe a sessllis</i> , <i>Parthenium hystero-phrous</i> , <i>Cyprus iria</i> <i>Cyprus difformis</i> , <i>Fimbristylis miliacea</i>	15+600	2000	375	113
Propaquizafop 2.5% + Imazethapyer 3.75% w/w ME					
Soybean	<u>Grassy weeds:</u> <i>Dactyloctenium aegyptium</i> <i>Echinochloa colonum</i> <i>Eleusine indica</i> <i>Digitaria sanguinalis</i> <u>BLW:</u> <i>Commelina Benghalensis</i> <i>Euphorbia hirta</i> <i>Digera arvensis</i> <i>Amaranthus viridis</i>	50+75	2000	500	80
Groundnut	Monocot weeds <i>Echinochloa colona</i> , <i>Cyperus difformis</i> , <i>Digitaria sanguinalis</i> Broad leaved weeds <i>Commelina benghalensis</i> <i>Digera arvensis</i>	50+75	2000	500	97
Blackgram	Monocot weeds <i>Digitaria sanguinalis</i> <i>Dcatylectonium aegyptium</i> <i>Cynodan dactylan</i> Broad leaved weed <i>Parthenium hystero-phorus</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	50+75	2000	500	56
Clusterbean	Monocot weeds <i>Cyperus rotundus</i> <i>Digitaria sanguinalis</i> Broad leaved Weeds <i>Commelina benghalensis</i> <i>Amaranthus viridis</i>	50+75	2000	500	69
Propaquizafop 5% + Oxyfluorfen 12% w/w EC					

Onion	<u>Grassy weeds</u> <i>Digitaria sanguinalis</i> , <i>Dactyloctenium aegyptium</i> , <i>Echinochloa colona</i> , <i>Eleusine indica</i> <u>BLW:</u> <i>Chenopodium album</i> , <i>Digera arvensis</i> <i>Amaranthus viridis</i>	43.75 +105	875	500	7
Pyrifthalid 31.0% w/w + Bensulfuron methyl 15.7% w/w SC					
Transplanted Rice	<i>Echinochloa sp.</i> , <i>Cyperus spp.</i> , <i>Sphenochlea zeylanica</i> , <i>Ludwigia spp.</i> , <i>Eclipta alba</i> , <i>Marsilea spp.</i> , <i>Fimbristylis miliacea</i>	175 (116.1g a.i. of Pyrifthalid + 58.9g a.i. of Bensulfuron methyl)	375	Upto 5 L/ha	99
Pyriithiobac Sodium 6% EC w/w+ Quizalofop-ethyl 4% EC w/w MEC					
Cotton	<i>Trianthema spp</i> <i>Digera spp</i> <i>Celosia argentic</i> <i>Dinebra retroflexa</i> <i>Digitaria marginata</i>	(60+40) to (75+50) g.a.i/ha	1.0-1.25 Ltr/ha	500	160
Quizalofop ethyl 4% + Oxyfluorfen 6% EC					
Onion	<i>Digitaria sanguinalis</i> (Crab grass) <i>Cyperus rotundus</i> (Moth)	100	1000	375	7
Quizalofop Ethyl 10% EC + Chlorimuron Ethyl 25% WP + Surfactant (0.2) (Herbicide) (Twin pack)					

Soyabean	<i>Aghada (Acanthospermum sp.)</i> , <i>Alternanthera spp.</i> , <i>Celosia argentia</i> <i>Borreria spp.</i> , <i>Parthenium spp.</i> , <i>Euphorbia geniculate</i> <i>Eragrostis pilosa E. viscosa</i> <i>Digitaria marginata</i> <i>Dactylactonium aegyptium</i> <i>Echinochloa spp.</i> , <i>Cynodon dactylon</i> <i>Brachiaria ramosa</i>	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	<i>Dactyloctenium aegyptium</i> , <i>Digitaria spp.</i> , <i>Echinochloa spp.</i> , <i>Cyperus rotundus</i> , <i>Commelina bengalensis</i> , <i>Digera arvensis</i>	32.81 + 65.625	437.5	375-500	90
Sulfentrazone 28% + Clomazone 30% WP					
Soybean	<i>Commelina benghalensis</i> , <i>Acalypha indica</i> , <i>Corchorus spp.</i> , <i>Euphorbia spp.</i> , <i>Parthenium hysterophorus</i> , <i>Echinochloa colonum</i> , <i>Brachiaria spp.</i> , <i>Dinebra spp.</i> , <i>Cyperus rotundus</i> .	350+375	1250	500	84
Sugarcane	<i>Amaranthus viridis</i> , <i>Trianthema spp.</i> , <i>Digera arvensis</i> , <i>Physalis spp.</i> , <i>Brachiaria spp.</i> , <i>Cynodon dactylon</i> , <i>Echinochloa spp.</i> , <i>Dactyloctenium aegyptium</i> , <i>Cyperus rotundus</i> .	700+750	2500	500	302

Sulfosulfuran 75%+ Metsulfuron Methyl 5%WG					
Wheat	<i>Phalaris minor</i> , <i>Chenopodium sp.</i> , <i>Medicago denticulata</i> , <i>Coronopus dedymus</i> , <i>Rumex spp.</i> , <i>Melilotus alba</i> , <i>Anagallis arvensis</i>	(30+2)	40 gm	250-500 + surfactant 1250 ml/ha	110
Sodium Aceflourofen 16.5% + Clodinafop Propargyl 8% EC					
Soybean	<i>Acalypha indica</i> , <i>aegyptium</i> , <i>Alternanthera v</i> <i>philoxeroides</i> , <i>Amaranthus spp.</i> , <i>Celosia argentea</i> , <i>Cleome viscose</i> , <i>Commelina benghalinsis</i> , <i>Dactyloctenium</i> , <i>Digera arvensis</i> , <i>Digitaria sanguinalis</i> , <i>Echinochloa spp.</i> , <i>Eleusine indica</i> , <i>Euphorbia spp.</i> , <i>Parthenium spp.</i> , <i>Phyllanthus niruri</i> , <i>Physalis minima</i> , <i>Stellaria media</i> <i>Trianthema monogyna</i>	80 + 165	1000	500	61
Triafamone 20% + Ethoxysulfuron 10% WG					
Rice Transplanted	<i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Cyperus rotundus</i> , <i>Cyperus difformis</i> , <i>Fimbistylis miliaceae</i> , <i>Marsilea quadrifolia</i> .	44+22.5	225	300	83
Rice Direct Seeded	<i>Echinochloa colona</i> , <i>Cyperus rotundus</i> , <i>Digera arvensis</i> , <i>Commelina benghalinsis</i> .	44+22.5	225	300	83

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MAJOR USES OF PESTICIDES
(Registered under the Insecticides Act, 1968)

(UPTO - 30/06/2021)

(Based on certificate issued)

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

INSECTICIDES

1. Insecticides registered for Agriculture use
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 (<i>Tetranychus urticae</i>)	0.00048- 0.00096%	0.025-0.050%	500	03
Grapes	Mites	0.014/L	0.75 ml/L water	500 - 1000	03
Accephate 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 leaf hopper	500 - 750	666 - 100	300 - 500	15
Accephate 97 % DF					
Cotton	Jassids & Boll worm complex	436.50 - 582	450 - 600	500	48
Paddy (Rice)	Yellow stem borer, Leaf folder, Plant hoppers, Green leaf hopper	727.50	750	500	21

Acephate 95 % SG					
Rice (Paddy)	Stem borer, Leaf folder, Brown plant hopper	562.50	592	500	30
Cotton	Jassids	750	790	500	18
Chilli	Thrips, Fruit borer (<i>Helicoverpa armigera</i>) Aphid	750	790	500	07
Acetamiprid 20 % SP					
Cotton	Aphids, Jassids	10	50	500 - 600	15
	Whiteflies	20	100	500 - 600	15
Cabbage	Aphids	15	75	500 - 600	07
Okra (Bhindi)	Aphids	15	75	500 - 600	03
Chilli	Thrips	10 - 20	50 - 100	500 - 600	03
Rice (Paddy)	Brown plant hopper	10 - 20	50 - 100	500 - 600	07
Afidopyropen 50 g/L DC					
Brinjal	Whitefly, Jassids	50	1000	500 - 750	01
Cotton	Whitefly, Jassids	50	1000	500 - 750	25
Cucumber	Whitefly	35 - 50	700 - 1000	500	05
Alphacypermethrin 10.00% EC					
Cotton	Boll Worms	15 - 25	165 - 280	600 - 1000	07
Alphacypermethrin 10.00% SC					
Cotton	Boll Worms	25 - 30	250 - 300	500 - 1000	10
Name of Commodity	Common name of the pest	Dose	Exposure Period		Aeration Waiting period

Aluminum Phosphide 56 % (3g Tablet, 10g Pouch)				
Stored Whole Cereals and Seed Grains Millet, Pulses Dry Fruits, Nuts Spices & Oil Seeds	Rice Weevil (<i>Sitophilus oryzae</i>), Lesser Grain Borer, Khapra Beetle (<i>Trogoderma granarium</i>), Rust Red Flour Beetle, Saw Toothed Grain Beetle, Caddle Beetle, Drug Store Beetle, Cigarette Beetle, Pulse Beetle	03 tablets (03 gm) per ton or 150 gm per 100 m ³ or 10 gm Pouch Per ton of commodity or 150 gm per 100 m ³ .	Minimum 05 Days (<i>Sitophilus oryzae</i>) or 07 Days (<i>Trogoderma granarium</i>)	One hour of partial aeration in case non-polyethylene packed commodities allowed by 6-8 hrs. of full aeration. For polyethylene packed commodities minimum aeration period is 48 hrs. The waiting period for the release of stock is 48hrs in both the cases. Recommendation for bag stock 15 days.
Mild Products: De-oiled Cakes, Rice Bran Flour, Grain Animal & Poultry Food Split Pulses (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 Period 07 days to be checked PH ³ detector strips.
Empty Godowns & Sheds	Rice Moth, Almond Moth, Mites, Fruit Fly, Granary Weevil, Caddle or Flour worm, Red Flour Beetle, Indian Meal Moth, Larger cabinet Moth, Wheat Kernel Damage in the field Cockroach.	14 tablets/1000 m ³ or 150 gm/100 m ³ or 4 pouch 10 gms each/1000 CFT or 150 gm/100 m ³	72 hrs.	Aeration Period 24 hrs detectors trips or 4hosphine detect tubes should be used in the premises to signal safety of atmosphere.

Rodents Burrows	Rodents	01 Tablet / Burrow	-	-
Aluminum Phosphide 15 % (12g Tablet)				
Stored whole cereals and seed grains.	Rice weevil, Rust red flower beetle	1 tablet (12 g) per ton or 600 100 m ³	Non polythene Packed commodities: Partial-1 hour. Full-(6-8) hour. Polythene Packed commodities: Minimum 48 hrs.	07-14
Millet, pulses, dry fruits, nuts, spices & oilseeds (Air tight cover or godowns)	Lesser Grain Borer, Khapra Beetle, Saw Toothed Grain Beetle, Rice Moth, Almond Moth	900 g/100 m ³	-	05
Milled products: De-oiled cakes, Rice bran	Rust red flower beetle	3 tablets/ton	48 hrs.	05
Flour Suji meals and Crushed grain (Animal & poultry feed), Split Pulses Dals)	Saw Toothed Grain, Beetle, Rice Moth, Almond Moth, long headed flour beetle & Mites	900 g/100 m ³	48 hrs.	03
Other processed food and Empty Godowns & Sheds (under air tight condition)	All insect pests.	14 tablets/1000 tons or 600 g/1000 m ³	48 hrs. 24 hrs.	03
Aluminium Phosphide 77.50 % GR				
Stored Grain	Red Rust Flour Beetle, Lesser Grain Borer, 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 plant hopper	1000	33000	-	20
Benfuracarb 40 % EC					
Red gram (Tur or Arhar)	Pod borer	1000	2500	500	20
Bifenazate 50 % WP					
Rose	Two Spotted Mite (<i>Tetranychus urticae</i>)	375	750	3000	-
Bifenazate 22.60 % SC					
Rose	Two Spotted Mite (<i>Tetranychus urticae</i>)	120	500	2000	-
Bifenthrin 08 % SC					
Tea	Red spider mite, Tea Mosquito bug	40.00	500	400	11
Apple	Mites	60 gm (0.006% Conc.)	7.50 ml/tree	10 lit/tree	21
Bifenthrin 08.80 % CS					
Rice (Paddy)	Stem borer, Leaf folder	44	500	500	21
Bifenthrin 10 % EC					

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					
<p>1. 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.</p> <p>2. Recommendation for use of control of Wood borer (Powder Post Beetle) in plywood, veneer and wood</p>					
Use	Method of application	Dosage (a.i.)	Dilution		
Plywood	Glue Line Poisoning	10 g/meter ³ of wood	400 ml formulation per meter ³ of wood		
	Dipping	0.025% Solution	Mix 01 lit of formulation in 99 lit of 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		
Bifenthrin 08 % SC					
Tea	Red spider mite, Tea mosquito bug	40	500	400	11
Apple	Mites	60	7.5ml/lit	10 lit/tree	21
Brodifacoum 0.005 %w/w BB					
Pest	Dose rate	Manner of application /use pattern			
Field rats/Bandicoot rats (Bandoicot bengalensis; B. indica) Indian house rat / 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/ Field mouse (<i>Mus musculus</i>)					
Bromadiolone 00.25 % CB					
Paddy (Rice)	Field Rat, Large Bandicota Indian house rat, Indian field 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	-	-	-
Residential premises	Indian House rat, House mouse	0.005	-	-	-

Poultry Farm	Indian house rat, House mouse, Large Bandicota	0.005	-	-	-
Buprofezin 25 % SC					
Cotton	Whitefly Aphids, Jassids, Thrips	250.0	1000	500 - 750	20
Chilies	Yellow Mite	75.0-150.0	300-600	500 - 750	05
Mango	Hoppers	0.025% -0.05%	1-2 ml/liter of water	5-15 liter per tree	20
Grapes	Mealy bugs	250 - 375	1000 - 1500	500 - 1000	07
Rice	Brown plant hopper, Green leaf hopper, White Back Plant Hopper	200	800	400 - 500	20
Buprofezin 70 % DF					
Okra (Bhindi)	Jassids	200	286	500	05
Cotton	Jassids, Whitefly	250 - 300	357 - 429	500	20
Rice	Brown plant hopper	175	250	500	24
Carbofuran 03 % CG					
Barley	Aphid, Cyst nematode	1000	33300	-	-
	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, Shoot fly, Thrips	1000	33300	-	-
Paddy (Rice)	Brown plant hopper Gall 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, Reniform 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 - 1000	08
Cumin	Aphid, Thrips	312.5	1250	500	17
Brinjal	Fruit and Shoot borer	312.5	1250	500	5
Cotton	Aphid, Thrips	312.5	1250	500	70
Carbosulfan 25 % DS					
Cotton	Jassid, Aphids, Thrips	15 gm/kg seed	60 gm/kg seed	Not required	-
Cartap Hydrochloride 04 % Granules					
Rice (Paddy)	Stem borer	750.0	18750	-	-
	Leaf folder, Whorl maggot	750-1000	18750-25000	-	-
Cartap Hydrochloride 50 % SP					
Rice (Paddy)	Stem borer, Leaf folder	500	1000	500 - 1000	-

Cartap Hydrochloride 75 % SG					
Rice	Yellow stem borer, Leaf folder	318.75 - 375	425 - 500	250 - 500	35-89
Chlorantranilprole 18.50 % SC					
Rice	Stem borer, Leaf folder	30	150	500	47
Cabbage	Diamond back moth	10	50	500	03
Cotton	American bollworm, Spotted bollworm, Tobacco caterpillar	30	150	500	09
Sugarcane	Termite	100 - 125	500 - 625	1000	208
	Early shoot borer, Top borer	75	375	1000	208
Tomato	Fruit borer	30	150	500	03
Chilli	Fruit borer	30	150	500	03
Brinjal	Shoot & Fruit borer	40	200	500 - 750	22
Pigeon pea	Pod borer	30	150	500 - 750	29
Soybean	Green Semi looper, Stem fly, Girdle beetle	30	150	500 - 750	22
Bengal gram	Pod borers	25	125	500	11
Black gram	Pod borers	20	100	500	20
Bitter gourd	Fruit borers & Caterpillars	20 - 25	100 - 125	500	07
Okra (Bhindi)	Fruit Borer	25	125	500	05
Chlorantranilprole 00.40 % GR					
Rice (Paddy)	Yellow stem borer, Leaf folder	40	10000	-	53
Sugarcane	Early shoot borer, Top borer	75	18.75	-	147

Chlorantraniliprole 35 % WG					
Okra	Fruit borer (<i>Helicoverpa armigera</i> & <i>Earias vittella</i>)	25	71	500	05
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	30	86	500	03
Chlorfenapyr 10 % SC					
Cabbage	Diamond back moth (<i>Plutella xylostella</i>)	75 - 100	750 - 1000	500	07
Chilli	Mites (<i>Polyphagotarsonem us latus</i>)	75 - 100	750 - 1000	500	05
Chlorfluazuron 05.40 % EC					
Cabbage	Diamond back moth, Tobacco leaf eating caterpillar	75	1500	500	07
Cotton	American bollworm, Tobacco leaf eating caterpillar	75 - 100	1500 - 2000	500	10
Chlorpyrifos 10 % Granules					
Rice (Paddy)	Stem borer, Leaf folder, Gall midge	1000	10000	-	30
Chlorpyrifos 75 % w/w WG					
Rice	Yellow stem borer (<i>Scirpophaga incertulas</i>)	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 & stalk borer	250 - 300	1250 - 1500	500 - 1000	-
	Pyrrilla	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:
 1. Building (Pre & Post construction treatment @1.0% a.i.)
 2. Forestry @1.0% a.i.
- Cropped area:
 1. Wheat: 3-4 ml/kg seed
 2. Barley: 4-6 ml/kg seed
 3. Gram: 15-30 ml/kg seed
- Soil treatment:
 - 1) Wheat: 2-3 lit/ha.
 - 2) Sugarcane: 6.25 lit/ha.

Chlorpyrifos 50 % EC

Rice (Paddy)	Stem borer, Leaf folder	375-400	750-800	500-1000	15
Cotton	Bollworms	500-600	1000-1200	500-1000	30
➤ For non- agricultural use: - For protecting building from termite attack at pre and posts construction stages, apply Chlorpyrifos 50% EC @ 0.5% and 1.0% concentration.					
Chlorpyrifos 01.50 % DP					
Paddy (Rice)	Stem borer, Green leaf hopper, Brown plant hopper, Leaf folder, Gall midge, Grass hopper	375	25000	-	07
Bengal gram	Pod borer (<i>Helicoverpa armigera</i>)	375	25000	-	07
Chromafenozide 80 % WP					
Paddy (Rice)	Leaf folder, Stem borer	75-100	94-125	500	32
Clothianidin 50 % WDG					
Rice (Paddy)	Brown plant hopper	10 - 12	20 - 24	500	12
Cotton	Jassids	15 - 20	30 - 40	500	20
	Whitefly	20 - 25	40 - 50	500	20
Cotton (Soil drench)	Jassids, Aphids, Thrips, Whitefly	100 - 125	200 - 250	1000	76
Sugarcane (Soil drench)	Termite	125	250	1000	310
Tea	Mosquito Bug (<i>Helopeltis theiovora</i>)	60	120	500	05
Coumatetralyl 0.75 % w/w Gel					
Indoor or outdoor	Rats (<i>Rattus rattus</i> , <i>Rattus norvegicus</i> , <i>Bandicota bengalensis</i> , <i>Bandicota indica</i> ,	01 mg per spot	2.50 per spot	-	-

	<i>Tetra indica,</i> <i>Meriones hurrianae)</i>				
Indoor	Mice	01	2.50	-	-
Coumatetralyl 0.0375 % Bait					
Indoor or outdoor	Rats (<i>Rattus rattus,</i> <i>Rattus norvegicus,</i> <i>Bandicota bengalensis,</i> <i>Bandicota indica,</i> <i>Tetra indica,</i> <i>Meriones hurrianae)</i>	01 mg per spot	02.50 per spot	-	-
Indoor	Mice	01	02.50	-	-
Cyantraniliprole 10.26 % OD					
Grapes	Thrips (<i>Scirtothrips dorsalis</i>), Flea beetle (<i>Scelodonta strigicollis</i>)	70	700	1000	05
Pomegranate	Thrips (<i>Scirtothrips dorsalis</i>), Pomegranate butterfly (<i>Deudorix isocrates</i>)	75 (0.0075%)	750 (0.075%)	1000	05
	Whitefly (<i>Siphoninus phillyreae</i>), Aphids (<i>Aphis punicae</i>)	90 (0.009%)	900 (0.09%)	1000	05
Cabbage	Cabbage Aphid (<i>Brevicoryne brassicae</i>), Mustard Aphid (<i>Lipaphis erysimi</i>), Diamond back moth (<i>Plutella xylostella</i>), Tobacco caterpillar (<i>Spodoptera litura</i>)	60	600	500	05
Chilli	Thrips (<i>Scirtothrips dorsalis</i>), Fruit borer (<i>Helicoverpa</i>	60	600	500	03

	<i>armigera</i>), Tobacco caterpillar (<i>Spodoptera litura</i>)				
Tomato	Leaf miner (<i>Liriomyza trifolii</i>), Aphids (<i>Aphis gossypii</i>), Thrips (<i>Thrips tabaci</i>), Whitefly (<i>Bemisia tabaci</i>), Fruit borer (<i>Helicoverpa armigera</i>)	90	900	500	03
Gherkins	Leaf miner (<i>Liriomyza trifolii</i>), Red pumpkin beetle (<i>Aulacophora foveicollis</i>), Aphids (<i>Aphis gossypii</i>), Thrips (<i>Thrips palmi</i>), Whitefly (<i>Bemisia tabaci</i>), Pumpkin caterpillar (<i>Diaphania indica</i>), Fruit fly (<i>Bactrocera cucurbitae</i>)	90	900	500	05
Cyenoxyfen 30 % SC					
Apple	Mite	60 - 90	200 - 300	1000	15
Chilli	Mite	60 - 90	200 - 300	400 - 600	07
Cyflumetofen 20 % SC					
Tea	Red spider mite	125 - 150	625 - 750	400 - 500	05
Cypermethrin 00.25% DP					
Brinjal	Fruit & shoot borer	50 - 60	20000 - 24000	-	03
Cypermethrin 10 % EC					
Cotton	Spotted bollworm, American bollworm, Pink bollworm	50 - 70	550 - 760	150 - 1000	07
Cabbage	Diamond back moth	60 - 70	650 - 760	100 - 400	07

Okra (Bhindi)	Fruit borer	50 - 70	550 - 760	150 - 400	03
Brinjal	Fruit & shoot borer	50 - 70	550 - 760	150 - 400	03
Wheat	Shoot fly	50	550.0	500 - 800	14
Sunflower	Bihar hairy caterpillar	60 - 70	650 - 760	500 - 700	14
Cypermethrin 25 % EC					
Cotton	Bollworms	40 - 70	160 - 280	400 - 800	-
	Jassids, Thrips	20 - 30	80 - 120	200 - 300	-
Bhindi (Okra)	Shoot & fruit borer, Jassids	37 - 50	150 - 200	500	03
Brinjal	Shoot & fruit borer, Jassids, <i>Epilachna</i> grub (Hadda beetle)	37 - 50	150 - 200	500	01
Dazomet					
Tobacco (Nursery)	Root knot nematode, Stunt nematode, Reni-form nematode	30 - 40	30 - 40	-	-
Tomato nursery	Root knot nematode	30 - 40	30 - 40	-	
Floriculture (Carnation & Gerbera)	Root-knot nematode	30 - 40	30 - 40		-
Deltamethrin 11% w/w EC					
Cotton	Bollworms	12.50	125	400 - 600	30
Rice (Paddy)	Stem borer, Leaf folder, Green leaf hopper, Whorl maggot	15	150	500	13
Tea	Tea Thrips	10	100	400	15
Rice	Leaf folder	15 - 18.75	150 - 187.5	500	13
Tomato	Fruit borers	10 - 12.5	100 - 125	375 - 500	3
Okra	Fruit Borers	10.12.5	100.125	375 - 500	3
Chilli	Fruit borers	17.5	175	500	5
Onion	Thrips	15	150	500	5

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

Mango	Hoppers	0.03 - 0.05%	0.33-0.5 ml/lit	As per spray field requirement	01
Chilli	Fruit borer	10 - 12.5	400 - 500	400 - 600	05
Brinjal	Shoot & Fruit Borer	10 - 12.5	400 - 500	500	03
Red Gram (Arhar/Tur)	Pod Borer & Pod Fly	12.50	500.0	500	10
Dicofol 18.50 % EC					
Tea	Red spider mite, Scarlet mite, Pink mite, 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 & Bitter gourd	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 Red spider 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	-
Apple	Stem borer	0.03%	1485-1980	1500 - 2000	In March April And June
Cabbage	Aphid	200	660	500 - 1000	-
Cauliflower	Painted bug, Mustard Aphid	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 loopers	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 months old
	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, Yellow mite, Thrips, Scale	250	500	500 - 1000	03
Cotton	Whitefly	750 - 1000	1500 - 2000	500 - 1000	-
	Bollworms	1000	2000	500 - 1000	25
Chilli	Mites & thrips	750 - 1000	1500 - 2000	500 - 1000	05
Gram	Pod borer	500 - 750	1000 - 1500	500 - 1000	21

Pigeon pea or Redgram (Arhar/Tur)	Pod borer	500 - 750	1000 - 1500	500 - 1000	21	
Soybean	Girdle beetle & stem fly	750	1500	500 - 1000	30	
Ethofenprox 10 % EC						
Rice	Brown plant hopper, Green leaf hopper, Stem borer, Leaf folder, Gall midge, Whorl maggot, White backed plant hopper	50 - 75	500 - 750	500	15	
Ethylene dichloride+Carbon tetrachloride (3:1)						
Crop	Common name of the pest	Cond.	Weight of volume	Exposure period	Conc. In air (ppm)	Aeration / Waiting
Stored whole cereals Millets Pulses	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. for cover fumigation	10 ppm	Partial aeration For at least 1 hr. followed by 24 hr. complete Aeration waiting period of 24 hr.

Godown fumigation	Rice weevil, Lesser grain Borer, Khapra Beetle, Rust red flour beetle, Pulse beetle, Dried fruit Beetle	Air tight cover	150 gm/m ³	07 days	10 ppm	Partial aeration For at least 1 hr. followed by 24 hr. complete Aeration waiting period of 24 hr.
Etiozazole 10 % SC						
Brinjal	Red spider mite		40	400	400 - 500	05
Tea	Red spider mite		40	400	400	05
Fenazaquin 10 % EC						
Tea	Red spider mite, Pink Mite, Purple mite		100	1000	400 - 600	07
	Scarlet mite		125	1250	400 - 600	07
Chilli	Yellow mite		125	1250	400 - 600	10
Apple	Red spider mite, Two spotted mite		40	400	1000	30
Okra (Bhindi)	Red spider mite		125	1250	500	07
Brinjal	Red spider mite		125	1250	500	07
Tomato	Two spotted spider mite		125.0	1250	500	07
Fenazaquin 18.3 % SC						
Brinjal	Red spider mite		114.375	625	400 - 500	10
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	75100	250 - 340	750 - 1000	14
Chilli	Thrips, Whitefly, Mites	75 - 100	250 - 340	750 - 1000	07
Brinjal	Whitefly, Shoot and Fruit borer, Mites	75 - 100	250 - 340	750 - 1000	10
Okra (Bhindi)	Whitefly, Shoot and Fruit borer, Mites	75 - 100	250 - 340	750 - 1000	07
Tea	Mites	50 - 60	165 - 200	400 - 500	07
Paddy (Rice)	Yellow stem borer, Leaf folder	100	333	500	30
Fenproximate 05 % EC					
Tea	Red spider mite, Pink Mite, Purple mite	15 - 30	300 - 600	400 - 500	07
Chilli	Yellow mite	15-30	300 - 600	300 - 500	07
Cotton	Jassids, Mites	37.50	750	500	15
Coconut	Eriophyid mites	0.50 gm/tree (Root feeding)	10ml/lit.	As required	-
	Eriophyid mites	0.056-0.075 gm/tree	0.75-01.0 ml/lit.	As required	-
Fenproximate 05 % SC					
Chilli	Yellow mite	15 - 30	300 - 600	500 - 750	03
Tea	Red spider mite, Pink mite, Purple mite	30 - 60	600 - 1200	400	07

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 leaf hopper, Rice Gall midge, Whorl maggot, White backed plant hopper	50 - 75	1000 - 1500	500	32
Cabbage	Diamond back moth	40 - 50	800 - 1000	500	07
Chilli	Thrips, Aphids, Fruit borers	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
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 leaf hopper, Rice gall midge, Whorl maggot, White backed plant hopper	50 - 75	16670 - 25000	-	32
Sugarcane	Early shoot borer, Root borer	75.0 - 100	25000 - 33300		09
Wheat	Termites	0.06	20 kg	-	91
Fipronil 00.60 % w/w GR					
Rice	Stem borer & Leaf folder	60	10	65	-
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
Flocoumafen 0.005% Block Bait (Strom)					
Usage	<i>Common pest</i>	a.i. (mg)	Formulation (g)	How to apply	Waiting period

For rodent control in field, storage and crops like rice, soybean and coconut)	<i>Rattus rattus</i> , <i>Bandicota bengalensis</i> , <i>Tatera indica</i> , <i>Mus musculus</i>	0.75-1.0	15-20	At an interval of 5-10m in bait station or active burrow. Repeat the application after 14 days if problem persists.	NA
Flonicamid 50 % WG					
Rice	Brown plant hopper, White backed plant hopper, Green leaf hopper	75	150	500	36
Cotton	Aphids, Jassids, Thrips & Whiteflies	75	150	500	25
Flubendiamide 20 % WG					
Rice	Stem borer, Leaf folder	25	125	500	30
Cotton	American bollworm	50	250	500	30
Pigeon pea (Tur/Arhar)	Pod borer	50	250	500	30
Cabbage	Diamond back moth	18.24	37.5 - 50	375 - 500	07
	Diamond back moth	12.5	62.5	500	07
Tomato	Fruit borer	48	100	375 - 500	05
	Fruit borer	50	250	500	05
Tea	Semilooper	30	150	400	07
Chilli	Fruit borer	50 - 60	250 - 300	500	05
Soybean	<i>Spodoptera litura</i> , Semilooper	50 - 60	250 - 300	500	29
Groundnut	<i>Spodoptera litura</i>	60	300	500	31
Black gram	<i>Spodoptera litura</i> , <i>Maruca</i> spp.	60	300	500	23
Bengal gram	Pod borer	50	250	500	15
Sugarcane	Early shoot borer	75	375	500 - 750	204

Flubendiamide 39.35 % m/m SC					
Rice	Stem borer, Leaf folder	24.0	50.0	375 - 500	40
Cotton	Bollworms (American & Spotted bollworm)	48 - 60	100 - 125	375 - 500	25
Pigeon pea	Pod borer	48	100	500	10
Black gram	Fruit borer	48	100	500	11
Chilli	Fruit borer	48 - 60	100 - 125	500	07
Tomato	Fruit borer	48	100	375 - 500	05
Cabbage	Diamond moth back	18.24	37.5 - 50	375 - 500	07
Soybean	Defoliators (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i> and Semilooper)	72	150	500	17
Flubendiamide 00.70 % GR					
Paddy(Rice)	Stem borer	85 - 100	12.14 - 14.28	Not applicable	25
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, Purple mite	80 - 100	400-500	500 - 1000	07
	Red spider mite	100 - 120	500-600	500 - 1000	07
Fluopyram 34.48 % w/w SC					

Tomato	Root knot nematode (<i>Meloidogyne incognita</i>)	250 (2 application) or 500 (Single application)	625 (2 application) or 1250 (Single application)	1000	05
Flupyradifurone 17.09 % w/w SL					
Okra (Bhindi)	Jassids, Whitefly	250	1250	500	03
Fluvalinate 25 % EC					
Cotton	Aphids, Jassids, Red cotton bug	50 - 100	200 -400	500 - 1000	07
	Bollworm	50 - 100	200 -400	500 - 1000	07
Hexythiazox 05.45 % w/w EC					
Tea	Scarlet mite (<i>Brevipalpus phoenicis</i>) Red spider mite (<i>Oligonychus coffeae</i>)	15-25	300 - 500	400/ha	05
Chilli	Yellow mites (<i>Polyphagotarsonemus latus</i>)	15 - 25	300 - 500	625/ha	03
Apple	European Red Mite (<i>Panonychus ulmi</i>)	0.002%	0.04%	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
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 and termites	720	1200	-	-
Soybean	Jassids	75	125	-	-
Maize	Shoot fly	0.6	1.0	-	-
Potato	Aphid & Jassids	0.0105	0.0175	-	-
Rice	Thrips	0.15	0.25	-	-
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 shoot fly	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
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	0.40-0.80 g/tree	2-4 ml/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	Dependin g on size of tree & Protectio n equipmen t 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

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	353 - 400	500 - 1000	15
Indoxacarb 15.80 % EC					
Cotton	Bollworms (<i>Helicoverpa armigera</i>)	75	500	500 - 1000	14
Cabbage	Diamond back moth (<i>Plutella xylostella</i>)	40	266	500 - 1000	05
Pigeon pea	Pod borer complex (<i>Helicoverpa armigera</i>), Pod fly	50	333	500 - 700	12
Rice	Leaf folder (<i>Cnephalocrosis medinalis</i>), Green Semilooper, Stem fly	30	200	500	14
Soybean	Tobacco caterpillar (<i>Spodoptera litura</i>), Pod borer (<i>Heliothis armigera</i>), Green Semilooper (<i>Chrysodeixis acuta</i>), stem fly (<i>Melanogromyza spp.</i>)	30	333	500	31
Chickpea	Pod borer (<i>Helicoverpa armigera</i>)	50	333	500	18
Lambda-cyhalothrin 04.90 % CS					
Cotton	Bollworms	25	500	500	21
Paddy (Rice)	Stem borer, Leaf folder	12.50	250	500	15

Brinjal	Shoot & fruit borer	15	300	500	05
Okra (Bhindi)	Fruit borer	15	300	500	05
Tomato	Fruit borer	15	300	500	05
Grapes	Thrips & Flea beetle	12.50	250	500 - 1000	07
Chilli	Thrips, Pod borer	25	500	500	05
Soybean	Stem fly, Semilooper	15	300	500	31
Pomegranate	Thrips & fruit borer	0.002	0.04	500-1000/as per age of tree	5
Cardamom	Shoot and Capsule Borer and Thrips	20	400	1000	34
Lambda-cyhalothrin 02.50 % EC					
Cotton	Bollworms, Jassids, Thrips	15 - 25	600 - 1000	400 - 600	21
Rice (Paddy)	Leaf folder, Stem borer, Green leaf hopper, Gall midge, Hispa, Thrips	12.50	500	400 - 600	15
Lambda-cyhalothrin 05 % EC					
Cotton	Bollworms, Jassids, Thrips	15 - 25	300 - 500	400 - 600	21
Rice (Paddy)	Leaf folder, Stem borer, Green leaf hopper, Gall Midge, Rice 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, pod borer	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/l of 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 for export, 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 loopier	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, Woolly aphid	0.05%	1500-2000	1500 - 2000	-
Mango	Mealy scale, Mango hoppers	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					
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	<i>Spodoptera litura</i>	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 (<i>Spodopoteria litura</i>)	210	875	500	26
	Groundnut leaf minor (<i>Aproaerema modicella</i>)	210	875	500	
	Pod borer (<i>Helicoverpa armigera</i>)	210	875	500	
Sugarcane	Early shoot borer (<i>Chilo infuscatellus</i>)	120-150	500-625 (depending upon stage of crop)	500	161
Methyl Bromide 98 % w/w					
Stored Whole Cereals and Seed, Millet, Pulses	Rice Weevil, Lesser Grain Bore, Khapra Beetle, Rust Red Flour Beetle, Saw Drug Store Beetle	Air tight cover	24 gm/m ³	6-8 hours waiting Period 24 hrs.	As when residues not to exceed 25 ppm
Milled Products: Flour	Khapra Beetle, Rust Red Flour Beetle, Lesser grain borer	Air tight cover	24 -32 gm/m ³	12-24 hours waiting Period 72 hrs.	As when residues not to exceed 25 ppm
Dry Fruits, Nuts Spices & Oil Seeds	Rust Red Flour Beetle	Air tight cover	24 -32 gm/m ³	24 hrs waiting Period 72 hrs	As when residues not to exceed 25 ppm
Milbemectin 01 % EC					
Rose	Two spotted, Spider mite	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, Pod fly	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 (leaf hopper)	300	1200	500 - 1000	-

Ground nut	Aphid, Leaf minor	250	1000	500 - 1000	-
Mustard	Aphid	250	1000	500 - 1000	-
Sesamum	Leaf hopper	300	1200	500 - 1000	-
Bhindi (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, Pink mite, 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	-	-
Profenofos 50 % EC					
Cotton	Bollworm	750 - 1000	1500 - 2000	500 - 1000	15
	Jassids, Aphids, Thrips, Whiteflies	500	1000	500 - 1000	15
Soybean	Semi looper & Girdle beetle	500	1000	500	40
Propargite 57 % EC					
Tea	Red spider mite, Pink mite, Purple mite, Scarlet mite	430-612	750-1250	400	07

Chilli	Mite	850	1500	500 - 625	07
Apple	European red mite, Two spotted mite	2.85-5.7/tree	5-10 ml/tree	10 lit/tree	09
Brinjal	Two spotted spider mite	570	1000	400	06
Pymetrozine 50 % WG					
Paddy (Rice)	Brown plant hopper	150	300	500	19
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
Pyridaben 20 % w/w WP					
Tea	Red spider mite	100	500	500	07
Cotton	White fly	100	500	500	28
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, Stem borer	250	5000	-	-
Quinalphos 20 % AF					
Rice (Paddy)	Brown plant hopper, Green leaf hopper, Leaf folder, Stem borer	250 - 300	1250 - 1500	750 - 1000	40
Okra (Bhindi)	Shoot /Fruit borer	250 - 300	1250 - 1500	750 - 1000	07
Cotton	American bollworm, Pink Bollworm, Spotted bollworm	350 - 500	1750 - 2500	750 - 1000	07
Tomato	Fruit borer	300 - 350	1500 - 1750	750 - 1000	07
Tea	Hopper caterpillar	0.05%	1000	400	07
Pigeon pea	Pod borer	500.	2500	750 - 1000	30
Groundnut	Spodoptera	250 - 375	1250 - 1775	750 - 1000	30
Quinalphos 25 % EC					
Paddy (Rice)	Brown plant hopper	375	1500	500 - 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 (<i>H.armigera</i>) (<i>Scirtothrips dorsalis</i>)	56-73	124-162	500	03
Red gram	Pod borer	56 - 73	125 - 162	800 - 1000	47
Brinjal	Fruit & Shoot borer	73 - 84	162 - 187	500	03
Grapes	Thrips	25 ml/100 lit	250	1000	15
Spinosad 02.50 % SC					

Cabbage & Cauliflower	Diamond back moth	15 - 17.50	600 - 700	500	03
Spiromesifen 22.90 % SC					
Brinjal	Red spider mite	96	400	500	05
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
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					
Rice	Stem borer, Leaf folder	500	1000	500	30

Thiodicarb 75 % WP					
Cabbage	Diamond back moth	750 - 1000	1000 - 1330	500	07
Cotton	Bollworms	750	1000	500	30
Brinjal	Shoot & Fruit borer	470 - 750	625 - 1000	500	06
Chilli	Fruit borer	470 - 750	626 - 1000	500	06
Black gram	Pod borer (<i>Maruca</i> spp.) & (<i>Helicoverpa</i> spp.)	468 - 562	625 - 750	375 - 500	17
Pigeon Pea	Pod Borer	470 - 750	625 - 1000	500	30
Thiamethoxam 30 % FS					
Cotton	Aphid, whiteflies, Jassids	03	10	This is used as seed dresser	
Sorghum	Shoot fly	03	10	This is used as seed dresser	
Wheat	Termites	01	3.3	This is used as seed dresser	
Soybean	Shoot fly	03	10	This is used as seed dresser	
Chilli	Thrips	02.1	7.0	This is used as seed dresser	
Okra (Bhindi)	Jassids	01.7	5.7	This is used as seed dresser	
Maize	Stem Fly	02.4	8	This is used as seed dresser	
Sunflower	Jassids, Thrips	03	10	This is used as seed dresser	
Thiamethoxam 70 % WS					
Cotton	Aphid, Thrips, Whitefly, Jassids	300	430	Use as seed dresser at the time of sowing	
Okra (Bhindi)	Aphids, Jassids	200	286	Use as seed dresser at the time of sowing	
Tomato	Aphids, Thrips	420	600	Use as seed dresser at the time of sowing	

Sunflower	Jassids, Thrips	280	400	Use as seed dresser at the time of sowing	
Wheat	Termite, Aphids	121	175	Use as seed dresser at the time of sowing	
Maize	Shoot fly, Aphids	245	350	Use as seed dresser at the time of sowing	
Rice (Paddy)	Thrips, Green leaf hopper	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 shoot borer	120	160	500 - 1000	230
Rice (Paddy)	Green leaf hopper, Brown plant hopper	113	150	Dissolve in 500 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 plant hopper, Green leaf hopper, Thrips	25	100	500 - 750	14
Cotton	Jassid, Aphid, Thrips	25	100	500 - 750	21
	Whitefly	50	200	500 - 750	21
Okra (Bhindi)	Jassid, Aphid, Whitefly	25	100	500 - 1000	05
Mango	Hoppers	25	100	1000	30
Wheat	Aphid	12.5	50	500	21

Mustard	Aphid	12.5 - 25	50-100	500 - 1000	21
Tomato	Whitefly	50	200	500	05
Brinjal	Whitefly	50	200	500	03
Tea	Mosquito bug	25	100	400 - 500	07
Potato	Aphids:				
	➤ Foliar Application	25	100	500	77
	➤ Soil drench	50	200	400 - 500	77
Citrus	Psylla	25	100	1000	20
Rice-Nursery (Soil Drenching)	Green leaf hopper, Thrips, Whorl Maggot	500	2000	250 ml/sq.mtr	86
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
Zinc Phosphide 80 % Powder					
Crop	Pest organism		Dosage		Technical

For rodent control in field and residential premises (to be used under the supervision of trained personal)	<i>Rattus rattus</i> , <i>Bandicota bengalensis</i> , <i>Rattus meliade</i> , <i>Tatera indica</i> , <i>Meriones hurrianae</i> , <i>Mus platythrix</i> , <i>Mus musculus</i> , <i>Rattus norvegicus</i> , <i>Mus booduga</i> , <i>Suncus caeruleus</i>	1.5-2.5% active ingredient in bait	Mix 10 g of Zinc phosphide with 10g of edible oil and then mix with 380g of food material. Keep 10g of poisoned bait at each points.		
Combination Product					
Acephate 50 % + Bifenthrin 10 % WDG					
Cotton	Leaf hopper, Thrips, Bollworms	400 + 80.	800	500 - 750	20
Acephate 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 % + 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 % + Chlorpyrifos 20 % EC					
Paddy (Rice)	Stem borer, Brown plant hopper, White backed 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

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
Bifenthrin 03 % + Chlorpyrifos 30 % w/w EC					
Paddy (Rice)	Stem borer, Leaf folder	24 + 240- 30 + 300	800 - 1000	500	21
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 plant hopper	200 + 500	1000	500	20
Cotton	Thrips, Jassids, Mealy bug	250 + 625	1250	500	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 (<i>Scirpophaga incertulus</i>)	18.75 + 562.5	7.5	-	35
Cartap Hydrochloride 04 % + Fipronil 00.50 % CG					
Paddy (Rice)	Stem borer, Leaf folder	675 - 900	15 - 20	-	27
Cypermethrin 10 % + Indoxacarb 10 % w/w SC					
Cotton	Jassids, Thrips, Bollworms	50 +50	500	400 - 1000	07
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, <i>Spodoptera litura</i> , Spotted bollworm, Pink bollworm, American bollworm	500 + 50	1000	500 - 1000	15
Rice (Paddy)	Stem borer, Leaf	312 + 32-	625 - 750	500 - 700	15

	folder	375 + 38			
Chlorpyrifos 16 % + Alphacypermethrin 01 % EC					
Cotton	Spotted bollworm, Pink bollworm, American bollworm	425	2500	500 - 750	15
Deltamethrin 00.72 % + Buprofezin 05.65 % w/w EC					
Rice (Paddy)	Brown plant hopper, Leaf folder	0.78 + 62.50- 0.94 + 75.00	1250 + 1500	500	30
Diafenthiuron 47 % + Bifenthrin 09.40 % w/w SC					
Cotton	Thrips (<i>Thrips tabaci</i>), Leaf hopper (<i>Amrasca devastans</i>), Whitefly (<i>Bemisia tabaci</i>), Aphid (<i>Aphis gossypii</i>)	293.75 + 58.7	625	500	30
Chilli	Thrips (<i>Scirtothrips dorsalis</i>), Aphids (<i>Aphis gossypii</i>)	293.75 + 58.7	625	500	07
Dinotefuran 4 % + Acephate 50% w/w/ SG					
Rice	Brown Plant Hopper & white Backed Plant Hopper	35 + 400	500	500	28
Cotton	Aphids, Jassids, Thrips & White flies.	22 + 275	880	500	10
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 (<i>Plutella xylostella</i>) Fruit borer (<i>Spodoptera litura</i> & <i>Helicoverpa armigera</i>)	27(Emamectin benzoate 3.0 + Lufenuron 24.0)	60	500	03
Chilli	Fruit borer (<i>Spodoptera litura</i> & <i>Helicoverpa armigera</i>) Thrips (<i>Scirtothrips dorsalis</i>) Mites (<i>Polypagotarsonemus latus</i>)	27(Emamectin benzoate 3.0 + Lufenuron 24.0)	60	500	03
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 plant hopper	50 + 50	125	375	15
Fenobucarb 20 % + Buprofezin 05 % w/w SE					
Paddy (Rice)	Brown plant hopper, Green leaf hopper	400 + 100	2000	500	30
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
Flubendiamide 07.5 % + Kresoxim Methyl 37.5 % w/w SC					
Rice	Stem borer & Leaf folder	50 + 250	667	500	30
Tomato	Fruit borer (<i>Helicoverpa armigera</i>) Leaf eating caterpillar/Fruit borer (<i>Spodoptera litura</i>)	50 + 250	667	500	07
Flubendiamide 19.92 % + Thiacloprid 19.92 % w/w SC					
Chilli	Thrips, Fruit borer	48 + 48- 60 + 60	200 – 250	500	05
Rice	Yellow stem borer Leaf folder	60 + 60	250	500	33
Fipronil 40 % + Imidacloprid 40 % WG					
Sugarcane	White grub (<i>Holotrichia consanguinea</i>)	175 + 175- 200 + 200	437.5-500	1000 - 250	296
Groundnut	White Grubs (<i>Holotrichia serrata</i>)	100 + 100 to 120 + 120	250 - 300	1000	106
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
Fipronil 07 % + Hexythiazox 02 % w/w SC					
Chilli	Mites and Thrips	70 + 20	1000	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, Gundhi bug	18 + 12	300	500	10
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
Novaluron 05.25 % + Indoxacarb 04.50 % SC					
Tomato	Fruit borer (<i>Helicoverpa armigera</i>) & Leaf eating caterpillar (<i>Spodoptera litura</i>)	43.31 + 37.13-45.94 + 39.38	825 - 875	500	05
Chickpea	Gram pod borer (<i>Helicoverpa armigera</i>)	43.31 + 37.13-45.94 + 39.38	825 - 875	500	9
Soybean	<i>Spodoptera</i> spp., <i>Helicoverpa armigera</i> and <i>Semilooper</i>	43.31 + 37.13-45.94 + 39.38	825 - 875	500	14
Pigeon pea (Red Gram/Arhar/Tur)	Pod borer complex (<i>Helicoverpa armigera</i> & <i>Maruca ossyp</i>)	43.31 + 37.13-45.94 + 39.38	825 - 875	500	25

Chilli	Fruit borer complex (<i>Helicoverpa armigera</i> , <i>Spodoptera litura</i>)	43.31 + 37.13- 45.94 + 39.38	825 - 875	500	7
Black gram	Black gram pod borer complex (<i>Etiella zinckenella</i> , <i>Spodoptera litura</i> and <i>Maruca vitrata</i>)	43.31 + 37.13- 45.94 + 39.38	825 - 875	500	14
Rice (Paddy)	Rice leaf folder (<i>Cnaphalocrosis medinalis</i>)	22.97 + 19.69	437.5	500	40
Groundnut	<i>Helicoverpa armigera</i> & <i>Spodoptera litura</i>	45.94 + 39.38	875	500	34
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, Fruit borer	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
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 &	25 + 75-	500 -750	500 - 750	07

	fruit borer	37.5 + 112.5			
Okra (Bhindi)	Whitefly, Fruit borer	25 + 75- 37.5 + 112.5	500 - 750	500 - 750	07
Chilli	Whitefly, Fruit borer	25 + 75- 37.5 + 112.5	500 - 750	500 - 750	07
Pyriproxyfen 05 % + Diafenthiuron 25 % SE					

Cotton	Whitefly (<i>Bemisia tabaci</i>), Thrips (<i>Thrips tabaci</i>), Jassid (<i>Amrasca biguttula biguttula</i>), Aphid (<i>Aphis ossypi</i>)	250 + 50-312.5 + 62.50	1000 – 1250	500	35
Pyriproxyfen 10 % + Bifenthrin 10 % w/w EC					
Cotton	Whitefly	60 + 60	600	500	19
Spirotetramat 11.01 % + Imidacloprid 11.01 % w/w SC					
Okra (Bhindi)	Red spider mites	60 + 60	500	500	03
Brinjal	Whitefly, Red spider mites	60 + 60	500	500	05
Mango	Mealy bug	0.018%	0.075%	Spray fluid as required depending upon size of tree.	15
Thiamethoxam 12.60 % + Lambda-cyhalothrin 09.50 % ZC					
Cotton	Jassids, Aphids, Thrips, Bollworms	44	200	500	26
Maize	Aphid, Shoot fly, Stem borer	27.50	125	500	42
Groundnut	Leaf hopper, Leaf eating caterpillar	27.5	150	500	28
Soybean	Stem fly, Semilooper, Girdle beetle	27.50	125	500	48
Chilli	Thrips, Fruit borer	33	150	500	03
Tea	Tea mosquito bug, Thrips, Semilooper	33	150	400	01
Tomato	Thrips, Whiteflies & Fruit borer	27.5	125	500	05
Acetamiprid 00.40 % + Chlorpyrifos 20 % EC					

Paddy (Rice)	Stem Borer, Brown plant 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 leaf hopper	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 leaf hopper	30.0 + 60.0	6 kg/ha	-	60
Chlorantraniliprole 08.80 % + Thiamethoxam 17.50 % w/w SC					
Tomato	Leaf Miner, Whitefly, Fruit borer	150	500 Application method -Soil drench (Single application), Application time -8-10 days after transplanting	50-100 ml/plant	36

Thiamethoxam 00.90 % + Fipronil 00.20 % w/w GR					
Ground nut	White grub, Termite	108 + 24- 135 + 30	12.15	106	48
Public Health Use					
Pest	Habitat	a.i. (mg/m²)	Formulation (gm)		Dilution (Ltr.)
Alphacypermethrin 05 % WP					
Adult Mosquito	-	25 (2 cycles application to repeat after 3 month)	Dilute 250 gm of Alphacypermethrin 5% WP in 10 litres of water to cover 500 sq m area.		250
	-	40 (single cycle application)	Dilute 250 gm of Alphacypermethrin 5% WP in 10 litres of water to cover 500 sq m area.		400
Alphacypermethrin Impregnated long lasting nets 00.667 % w/w (200 mg/m²) (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 Bifenthrin 10% WP in 10 liters of water to cover 500 m ² areas.	-
Chlorpyrifos Methyl 40 % EC					
-	Used to control of adult vector mosquitoes				
Cyfluthrin 10 % WP					
Under Public Health Programme (Adult Mosquitoes)	-	25 (2 cycles application to be Repeated after 3 months.	250	Dilute 250 gm of Cyfluthrin 10% WP in 10 litres of water to cover 500 m ² areas.	

	-	40 (single cycles application)	400	Dilute 400 gm of Cyfluthrin 10% WP in 10 litres 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 Application	Dosage/ha.			
		a.i. (gm)	Formulation (ml)	Dilution in diesel Oil (Litre)	
Adult Mosquitoes	Thermal fogging	0.50	50	10	
	Ultra low volume application	0.50	50	0.50	
Deltamethrin 02.50 % WP					
Adult Mosquitoes	For public health purpose 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/m² (For Import only)					
Ready to use insecticide Impregnated Bed net			Mosquitoes control under Public Health		
Diflubenzuron 02 % GR					
Name of the insect pest	Habitat	Dosage/ha (Kg.)	-	Waiting period	
Mosquito larvae	Water bodies (Cess pits, Drains, Disused wells and Pools)	1.25-3.0	-	-	
Fenitrothion 40 % WP					

Common name of pest	a.i. (gm)	Formulation	-	Dilution in water (litres)	
Mosquitoes & flies	400	1000	-	80	
Lambda-cyhalothrin 10 % WP					
Pest	Use	Dosage 500 m³ 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/m²			Waiting Period (days)
		a.i. (gm)	Formulation (gm)	Dilution in water (Liter)	
-	Adult mosquitoes	02/m ²	08/m ²	100	Repeat after 6-8 weeks
Novaluron 10 % EC					
Place of Application	Insect	Dosages		Waiting Period	
		a.i. (gm)	Formulation (ml)		
Clean surface water	<i>Anopheles stephensi</i> , <i>Aedes aegypti</i>	30	0.03 ml/m ²	-	
Polluted surface water	<i>Culex quinquefasciatus</i> , <i>Anopheles subpictus</i>	60	0.06 ml/m ²	-	
Pyriproxyfen 00.50 % GR					

Breeding habitats		Dosage/ha		Interval between application	
		a.i. (gm)	Formulation (Kg.)		
Clean water/Domestic containers		10 (0.01ppm)	2	08 weeks	
Polluted/ Peri-domestic breeding habitat		20 (0.02ppm)	4	08 weeks	
Pirimiphos methyl 50 % EC					
Location	Name of the pest	Dosage	-	Waiting period	
Mosquito breeding surface	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 (<i>Nilaparvatha Lugens</i>)	90	375	500	14
	White backed plant hopper (<i>Sogatella furcifera</i>)	90	375	500	
Cotton	Jassids (<i>Amarasca bigutella</i>),	75	313	500	
	Aphid (<i>Aphis gossypii</i>)	75	313	500	
	Whitefly (<i>Bemmissia tabaci</i>)	90	375	500	
	Cotton mealy bug (<i>Phenacoccus spp.</i>)	90	375	500	
Temephos 50 % EC					
Regime of application	Common name of pest	Dosage/ha		Waiting period (days)	
		a.i. (g)	Formulation (ml)		

Mosquito larval treatment area, ponds, swamps, drainage, ditches, canals and other, Breeding areas.	Mosquitoes larvae	37.5 - 125	75 - 250	200
Household Insecticides				
Alphacypermethrin 0.1 % w/w (RTU)				
Common name of pest		Dose/m² (a.i./mg)		Formulation (ml)
Cockroaches, Adult mosquitoes, Adult houseflies		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, House flies & 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 Housefly Mosquitoes	25-40	250 - 400	Dilute 250-400 gm of Cyfluthrin 10% WP in 10 litres of water to cover 500 m ² areas.
Chlorpyrifos 02 % w/w EC			
Ready to use household insecticides		Used for protecting wood from the attack of termites & borers.	
Chlorpyrifos 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, House flies, 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 germanica) and Ants(Red ants)			
Deltamethrin 02.50 % Flow					
Name of insect pest	Type of use	Dosage /m ² area of bed net		-	-
		a.i.	Formulation		
Adult Mosquitoes	For impregnation of polyester , nylon and cotton bed net	25 mg	1 ml	-	-
Deltamethrin 02.50 % WP					
Name of insect pest	Habitate	Dosage /m ² area of bed net			-
		a.i.	Formulation	Dilution in water (Liter)	

Lesser grain borer Rice moth, Saw toothed grain beetle, Red flour beetle, Khapra beetle, Almond moth	Grain and seeds in stacks	30 mg/m ²	1.2 g/m ²	1 Liter for 30 m ²	-
Rice weevil	Grain and seeds in stacks	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 20 % + Deltamethrin 02% SC					
Name of the insect pest	Habitat	Dosage/ha (kg.)		Waiting period	
House fly maggot	Poultry Manure & kitchen garbage	1.50-2.00 ml/liter water (5 litre of 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 surface water	50 - 100 g a.i./ha		-	
	Sewage pits, Soak pits, Latrines, Septic tanks	01.0 mg a.i./liter		-	
House fly maggots control	In poultry manure garbage, filth & dumping areas	5.0 gm/10 m ²		05 liters water/10 m ²	
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/m²	
	a.i. (mg)	Quantity of solution (ml)
Cockroach, Houseflies, Mosquitoes	12.5 - 25.0 + 10 - 20	25 - 50
Deltamethrin 00.02 % + Allethrin 00.13 % w/w		
Ready to use	To control cockroaches, mosquitoes and flies	
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 Insect Killer Aerosol)		
Ready to use	To control cockroaches, mosquitoes and house flies	
Deltamethrin 01 % RTU		
Ready to use household insecticide	To control Cockroaches in house. One litre of insect control of paints sufficient for an area of 22 sq. meters. Two coats of insect control paint are recommended giving 18 hours of drying between the coats.	
D-Trans Allethrin 02% Mosquito Mat		
Ready to use household insecticide.	To control Adult Mosquitoes in house.	
D-Trans Allethrin 00.10 % w/w Mosquito Coil		
Ready to use household insecticide.	To control and repel of Adult Mosquitoes in the house.	
D-Allethrin 21.97 % w/w Mosquito Mat.		
Used to control Adult Mosquitoes	Open Area like Park, Garden and Farm Houses etc. only.	

Benzoate 00.10 % w/w Gel			
Name of Insect/Pest	Dose (g a.i.)	FormulationDose	Application Usages
American Cockroach (<i>Periplaneta americana</i>)	0.001 g a.i./m ²	1.0 gm of Gel Bait/m ² (2-5 spots)	Place “Ready to Use Gel Bait” (RB) for use as spot or cracks and crevices treatment in residential institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners, areas where cockroaches forage or crack and crevices, holes, hidden surfaces, any other places where cockroaches are typically known to hide etc. for the control of cockroaches.
German Cockroach (<i>Blattella germanica</i>)	0.001 g a.i./m ²	1.0 gm of Gel Bait/m ² (1-2 spots)	Place “Ready to Use Gel Bait” (RB) for use as spot or cracks and crevices treatment in residential institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners, areas where cockroaches forage or crack and crevices, holes, hidden surfaces, any other places where cockroaches are typically known to hide etc. for the control of cockroaches.
Fenitrothion 20 % OL			
Name of Pest	Dose (g a.i.)	Formulation (ml)	Instruction for use
Bedbug (<i>Cimex</i> spp.)	2	10	Take 10 ml of BILFOL 20 and dilute in 200 ml of kerosene. Apply spot spray thoroughly in all bed bug infested areas like charpoy furniture etc. taking care that the spray is the directed into cracks and crevices where bedbugs are hiding. 200 ml of spray wash will approx cover 10 m ² it can also be applied with a brush where ever bedbugs occur.

Fipronil 00.03 % & 0.5 % Gel		
Ready to use household insecticide		Used to control of German & American Cockroaches.
Fipronil 00.05 % GEL		
House hold	Common name of the pest	Dosage/m ²
House hold	American Cockroach (<i>Periplanata americana</i>), German cockroach (<i>Blattella germanica</i>)	0.03 g (in a bait gun), 3-4 spot/m ²
House hold	German cockroach (<i>Blattella germanica</i>)	(100 mg spot= approx 5 mm diameter) Low Density – 1 spot / M ² High Density – 2 spots / M ²
	American Cockroach (<i>Periplanata americana</i>)	Low Density – 2 spots / M ² High Density – 3 spots / M ²
Imiprothrin 00.10 % + Cyphenothrin 00.13 % w/w		
Ready to use		Used for controlling cockroaches in homes.
Imiprothrin 00.70 % + Cypermethrin 00.20 % w/w Aerosol		
Ready to use household insecticides		Used against Cockroaches.
Imiprothrin 00.05 % + Cypermethrin 01 % CL		
Ready to use		Used for controlling cockroaches in houses.
Imidacloprid 00.03 % w/w Gel		
Species	Recommended Dose	
Pharaoh ant (<i>Monomorium pharaonis</i>), Small black ant (<i>Monomorium indicum</i>), Crazy ant (<i>Paratrechina longicomis</i>), Ghost ant (<i>Tapinoma melanocephalum</i>)	Low infestation level (one spot of 200 mg/m ² of infested area). Moderate to high infestation level (one spot of 300 mg/m ² of infested area).	

Scoring of ant activity will be done based on the following:			
<ul style="list-style-type: none"> ➤ Low activity=1-50 ants passing from a given point in the time period of one minute. ➤ Medium activity=51-200 ants passing from a given point in the time period of one minute. ➤ High activity= 201 ants passing from a given point in the time period of one minute. 			
Imidacloprid 02.15 % w/w Gel			
Ready to use household insecticide		Used to control of German & American Cockroaches	
Imidacloprid 21 % + Beta-cyfluthrin 10.50 % w/w SC			
Name of Insect pests	Places	Dosage	
American Cockroaches, German Cockroaches	Private Houses, Factories, Offices, Market places, Restaurants, Hotels, Shops, Ships, Hospital etc.	Diluter 04 ml of Imidacloprid 21.0% w/w + Beta-cyfluthrin 10.5% w/w SC with 01 L of water. Apply 50 ml of this solution to spray per square meter area or apply 01 L of this solution to cover 20 square meter area	
Lambda-cyhalothrin 00.50 % Chalk			
Ready to use household insecticides		Used to control Cockroaches.	
Lambda-cyhalothrin 02.43 % CS			
Purpose and target pest	Dosage/m² of netting		
	a.i. (mg)	Concentration of spray fluid	Quantity of spray fluid (ml)
Impregnation of bed nets to prevent attack from mosquitoes	10.0	0.05%	800-1000 (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, House flies & Cockroaches	12.50	Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m ² on non porous & @ 50 ml/m ² on porous surfaces.		
Porous surfaces – Mosquitoes House flies & Cockroaches	25	Mix 20 ml of product in 1 liter of water & spray the solution uniformly @ 25 ml/m ² on non porous & @ 50 ml/m ² on porous surfaces.		
Lambda-cyhalothrin 02.43 % CS				
Name of pest	Dosage/m ²			
	a.i. (mg)	Formulation (ml)	Dilution in water	
Cockroaches	50	1	Dissolve 500 ml of formulated material in 10 litre water to cover 500 square meter area.	
Housefly, Adult mosquitoes	0.2	0.004	Dissolve 4 ml of formulated material in 20 litre water to cover 1000 square meter area.	
Indoor				
<i>Anopheles stephensi, Culex quinquefasciatus, Aedes aegypti</i>	0.5	0.01	Dissolve 5 ml of formulated material in kerosene to cover 500 square meter area.	
Outdoor				
<i>Anopheles stephensi, Culex quinquefasciatus, Aedes aegypti</i>	3.5	70	Dissolve 70 ml Formulation in kerosene to cover 1 hectare area.	
Target Pest	Active Ingredient Dose (g a.i.)	Formulation Dose (ml)	Method of application (water volume)	Application Usage
Houseflies (<i>Musca domestica</i>)	0.375 – 0.5 g a.	15 – 20 per	For Low Pest	For use as

Mosquito (<i>Anopheles</i> spp.)	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 of water and spray the solution uniformly @ 40 ml per square meter. For High Rate Infestation (Cleanout Rate) Mix 20 ml of the product in one litre of water and spray the solution uniformly @ 40 ml per square meter.	indoor or outdoor as a surface crack and crevice or spot spray treatment in residential, institutional, commercial and industrial areas / establishmen ts etc.
American Cockroaches (<i>Periplaneta Americana</i>)				
German Cockroaches (<i>Blattella germanica</i>)				
Outdoor				
<i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i>	0.5	0.01	Dissolve 5 ml of formulated material in kerosene to cover 500 square meter area.	
Outdoor				
<i>Anopheles stephensi</i> , <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i>	3.5	70	Dissolve 70 ml Formulation in kerosene to cover 1 hectare area.	
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		
Permethrin 02.00% (Olyset@ Net) w/w for Import only				

Ready to use household insecticides		For control of mosquitoes both indoors and outdoors. After unpacking and before using the new bed net, keep it in an 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.)	Formulation (ml)	Dilution in water (litres)
Flying insect- Mosquitoes, Flies, Cockroaches , Bed bugs, Flash, Ticks crickets , Woodlice , Mite, Silver fish, Spider, Ants etc.	200	1000	40
Pirimiphos-methyl 01 % Spray			
Location	Pest	Dosage	Exposure period (min. hrs.)
Spot spray in houses	Cockroaches , bed bugs, flea etc.	100 ml/1 m ²	01
Space spray in houses	Mosquitoes, houseflies	50 ml/100 m ³	01
Pyrethrin 00.05 % + Malathion 01 %			
Insects		Used to control of Cockroaches, Mosquitoes and Flies	
Propoxur 02 % Bait			
Ready to use household insecticides		Used to control of Cockroaches and Flies	
Pyrethrin 00.20 % Spray			

Ready to use household insecticide	To control of Cockroaches, Houseflies, Mosquito and bugs
Propoxur 01 % Spray	
Ready to use household insecticide	Used to control of Cockroaches, House flies and Adult Mosquitoes
Prallethrin 01 % w/w Red Mosquitoes Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes
Prallethrin 00.04 % Coils (Min.11Hrs.)	
Ready to use household insecticide	Used to control mosquitoes in Houses
Prallethrin 00.04 % Coils (Min.6 Hrs.)	
Ready to use household insecticide	Used to control mosquitoes in Houses
Prallethrin 00.80 % w/w Red Mosquitoes Mat	
Ready to use household insecticide.	Used to control of Mosquitoes.
Prallethrin 00.50 % w/w Mosquitoes Coil	
Ready to use household insecticide.	Used to control of adult mosquitoes.
Prallethrin 01.20 % Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes.
Prallethrin 00.04 % w/w Mosquito Coil	
Ready to use household insecticide.	Used to control of adult mosquitoes.
Prallethrin 19 % w/w VP	
Ready to use household insecticide.	Used to control of adult mosquitoes.
Prallethrin 02.40 % w/w Liquid	
Ready to use household insecticide.	Used to control of Mosquitoes.
S-Bioallethrin 02.40 % Mosquitoes Mat	
Ready to use household insecticide.	Used to control of adult mosquitoes.
Thiamethoxam 00.01 % w/w Gel Bait	

Common Name of the Insect/Pest	Dose (g a.i.)	Formulation Dose	Application/Usage
Black Carpenter Ants (<i>Camponotus</i> spp.)	0.0001 g.a.i. per spot (2-4 spots per square meter)	1.0 gm of gel bait per spot (2-4 spots per square meter)	Locate the ant trails or location where ants are most active. Place "Ready to Use Gel Bait" (RB) for controlling ants for use as spot or cracks and crevices treatment in residential, Institutional, commercial and industrial areas e.g. application at or near harborage or aggregation areas, such as corners areas where ants forage or crack and crevices, holes, hidden surfaces any other places where ants are typically known to hide.
Transfluthrin 0.08 % w/w Aerosol			
Ready to use household insecticide		Used to control in household Mosquitoes (<i>Aedes aegypti</i> , <i>Culex quinquefasciatus</i>) and Housefly (<i>Musca domestica</i>).	
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 31.12.2021

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/w SC	78.75+13.5 g.a.i/ha
9	Bio-pesticide as below <i>Metarhizium anisopliae</i> , <i>Metarhizium rileyi</i> (<i>Nomuraea rileyi</i>), <i>Beauveria bassiana</i> , <i>Verticillium lecanii</i>	1 × 10 ⁸ CFU/g @ 5 g/litre whorl application. Repeat after 10 days if required.
10	<i>Bacillus thuringiensis</i> ver. <i>Kurstaki</i> , NPV	@ 2 g/l (or) 400 g/acre.

Recommended chemicals by FAO for Locust Control

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

Major Uses of Pesticides

(Registered under the Insecticides Act, 1968)

(UPTO - 30/06/2021)

(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/%)	Formulation (ml/gm/Ltr/kg/%)		
Alpha Naphthyl Acetic Acid 4.5% SL (Na salt)					
Tomato	At the time of flowering two spray.	45ppm	-	-	-
Chillies	1 st spray during flowering & 2 nd spray 20 -30 days later.	10ppm	-	-	-
Mango	Ist spray when tender fruits one of pea size. 2 nd spray when fruits one of marble size(about 2 cm diameter)	20ppm	-	2 ml in 4.5litre.	-
	<u>To control Mango malformation</u> - Before fruit bud differentiations approx.3 months before flowering	200ppm	-	20 ml in 4.5 ltrs.	-

Grapes	(a) To increase size & weight of berries. – 1 st sprays at pruning time. – 2 nd spray when flowering shoot appear	10ppm	-	2 ml in 49 ltrs.	-
	(b) To control berry drop (spray on matured grape bunches) 10-15 days before harvesting.	100ppm	-	20 ml. in 49 ltrs.	-
Pineapple	<u>(a) To induce flowering and uniform growth</u>	10ppm (In dry weather half strength solution i.e. 5 ppm may be used)	-	1 ml in 4.5 ltrs (pour 30-50 ml of solution in to the head of each plant)	-
	(b) To increase fruit size.	199ppm	-	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.)	-
	I To delay maturity - Two weeks before harvest.	100ppm	-		-
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 1 st spray: 2 nd Spray: 3 rd 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 250 g a.i./ha	1000ml 2000 ml 500ml	1000L	91
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
Ethephon 10% Paste					
Rubber	For renewed bark 4 times bark swabbing. During March, August, September & November below the tapping panel after 4cm 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. 1 st When size of berry is 3-4 mm diameter and 2 nd 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
Gibberellic Acid Technical (90% w/w)					
Grape fruit	a) At full bloom (for fruit set)- single spray b) 1 st week of May (For June fruit drop) –single spray c) 1 st 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 1 st at full bloom & 2 nd at fruit set stages.	100ppm.	-	-	-
Grape (Seedless)	Two blanket spray at 1 st full bloom & 2 nd at post bloom stage.	15-60ppm	-	-	-
Brinjal	a) seed treatment (dipping)	10ppm	-	-	-
	b) When 4 weeks old -weekly spray	50ppm	-	-	-
Gibberellic Acid 0.001%L					
Paddy	To increase the yield and quality of the crop produce				
	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 3 rd month b) Second spray 5 th 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 0.186% 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 Cyanamide 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 Cyanamide 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	62.5-75gm	1.25-1.5Ltr	Mix 200 - 300 ml of products in 10 ltrs of water.	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 gm	1.0-1.25 ltr	500-600	57
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
Pacllobutrazol 23% SC (W/W) / (25% W/V) (Import Source:- ZENECA Agrochemicals, Fernhurst, Haslemere, Surrey, UK)					
Mango	To reduce the inter node length of new shoots and earlier			Recommended	

	<p>formation of terminal bud. Favourably, influence the fruit bud production, fruit colour and harvest yield</p> <p>7-15yrs old</p> <p>16-25 yrs.old</p> <p>>25 yrs old</p> <p>Application after the harvest of fruits (Any time from July to Oct)</p>	-	15 ml. Per tree	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.	-
<p>Paclobutrazol 23% SC (W/W) / (25% W/V) (Import Source:- PGR International Pty. Ltd., 4 Dairy road, Werribee Vic. 3030 Australia)</p>					
Mango	<p>To reduce the inter node length of new shoots and earlier formation of terminal bud. increase fruit bud production, and improve fruit yield texture</p> <p>16-25 yrs old</p> <p>Application after the harvest of</p>	4.0 gm per tree	16 ml. Per tree	<p>Make a round furrow about 5 to 10 cms deep at least 30cm away from the trunk. Mix the</p> <p>(Note: If the soil is sandy the rate of</p>	<p>Waiting Period-NIL as the chemical is applied 8 months before</p>

	fruits (Any time from July to Oct)	-	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 1 st year)	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	harvest of fruits
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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 >25 yrs old Application after the harvest of fruits (Any time from July to Oct)	- - -	15 ml. Per tree 20 ml. Per tree. 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 1 st year)	Recommended quantity diluted in clean water of 5 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.	-
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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/L (460 ppm)	2 ml/L (2000 ppm)	3L Recommended as foliar spray (single application) with the help of high volume knap sack sprayer (at green tip stage)	134
Paclobutrazole 23% SC					
Mango tree	Age 7-15 years	3.45	15ml	5-10L for a mature tree	-
	Age 16-25 years	4.6	20ml		
	Age more than 25 years	5.75-9.2	25-40ml		
Cotton	To restrict vegetative growth prevent shedding of squares/bolls & enhance yield	34.50 g a.i./ha	150ml/ha	500 L/ha	42
Paclobutrazole 40% SC					

Pigeon Pea	At Flowering initiation stage	30	75	500	48
Prohexadione-Ca 10% WG					
Apple	Two split applications: 1 st application: at 3-5 leaves/ shoot	125	50 gm per 100 liter	2500	94
	2 nd application 4 weeks after 1 st application	150	60 gm per 100 liter	2500	
Sodium Para –Nitrophenolate 0.3% SL					
Cotton	Flower bud initiated stage and fruit set stage	0.5%	5ml	800	16
Tomato	Flowering and fruit stages	0.5%	4ml	200	7
Triacantanol 0.05% EC					
Cotton	To increase the yield	0.125 gm	0.25ltr	400-500	
	Three sprays at 45, 65 and 85 days after planting				
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 days after planting	0.125 gm	0.25 ltr	400-500	-
Potato	Two sprays at 30 and 45 days after planting	0.250 gm	0.50 ltr	500-600	-
Triacantanol 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.	-	-
Triacantanol 0.1% EW					
Cotton	To increase the yield Three sprays at 45, 65 and 85 days after planting	0.25 gm	0.25 ltr.	400-500	-
Rice	Three sprays at 25, 45 and 65 days after transplanting	0.25 gm	0.25 ltr.	400-500	-
Chilli	Three sprays at 25, 45 and 65 days after planting	0.25 gm	0.25 Ltr.	400-500	-
Tomato	Three sprays at 25, 45 and 65 days after planting	0.25 gm	0.25 ltr.	400-500	-
Groundnut	Three sprays at 25, 45 and 65 days after planting	0.25gm	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. 2 nd and 3 rd spray should be applied at an interval of 15 days.	4.40 +17.60 to 4.95 +19.80 gm	200 - 225	500	21
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Insecticides / Pesticides Registered under section 9(3) of the Insecticides Act, 1968 for use in the Country:

(As on 01.07.2021)

Sl. No.	Name of the Pesticide
1.	2,4-D Amine salt
2.	2,4-Dichlorophenoxy Acetic Acid
3.	Abamectin
4.	Acephate
5.	Acetamiprid
6.	Afidopyropen
7.	Allethrin
8.	Alphacypermethrin
9.	Alphanaphthyl Acetic Acid
10.	Aluminium Phosphide
11.	Ametroctradin
12.	Ametryn
13.	Amisulbrom (FI-WRT)
14.	<i>Ampelomyces quisqualis</i>
15.	Anilophos
16.	Atrazine
17.	Aureofungin
18.	Azadirachtin (Neem Products)
19.	Azimsulfuron
20.	Azoxystrobin
21.	<i>Bacillus sphaericus</i>
22.	<i>Bacillus subtilis</i>
23.	<i>Bacillus thuringiensis</i> var. galleriae
24.	<i>Bacillus thuringiensis</i> var. israelensis
25.	<i>Bacillus thuringiensis</i> var. kurstaki
26.	Barium Carbonate
27.	<i>Beauveria bassiana</i>

28.	Benalaxyl (TIM)
29.	Benalaxyl M
30.	Bendiocarb
31.	Benfuracarb
32.	Bensulfuron Methyl
33.	Bentazone TI
34.	Benzpyrimoxam
35.	Beta Cyfluthrin
36.	Bifenazate
37.	Bifenthrin
38.	Bispyribac Sodium
39.	Bitertanol
40.	Boscalid
41.	Brodifacoum
42.	Bromadiolone
43.	Buprimate (FI-WRT)
44.	Buprofezin
45.	Butachlor
46.	Captan
47.	Carbendazim
48.	Carbofuran
49.	Carbosulfan
50.	Carboxin
51.	Carfentrazone Ethyl
52.	Carpropamid
53.	Cartap Hydrochloride
54.	Chlorantraniliprole
55.	Chlorfenopyr
56.	Chlorfluazuron
57.	Chlorimuron ethyl
58.	Chlormequat Chloride (CCC)
59.	Chlorothalonil
60.	Chlorpropham (TI),TIM

61.	Chlorpyriphos
62.	Chlorpyriphos Methyl
63.	Chromafenozide
64.	Cinmethylen
65.	Clethodim (FI-WRT)
66.	Clodinafop-propargyl
67.	Clomazone
68.	Clothianidin (FI-WRT)
69.	Copper Hydroxide
70.	Copper Oxychloride
71.	Copper Sulphate
72.	Coumachlor
73.	Coumatetralyl
74.	Cuprous Oxide
75.	Cyantraniliprole
76.	Cyazofamid
77.	Cyclanilide
78.	Cyenopyrafen (FI-WRT)
79.	Cyflufenamide(FI-WRT)
80.	Cyflumetofen
81.	Cyfluthrin
82.	Cyhalofop-butyl
83.	Cymoxanil
84.	Cypermethrin
85.	Cyphenothrin
86.	Cyproconazole (TI)
87.	Dazomet
88.	Deltamethrin (Decamethrin)
89.	Diafenthiuron
90.	Dichloro Diphenyl Trichloroethane (DDT)
91.	Dichloropropene and Dichloropropane mixture (DD mixture)
92.	Diclofop-Methyl
93.	Diclosulam
94.	Dicofol
95.	Difenoconazole

96.	Diflubenzuron
97.	Dimethoate
98.	Dimethomorph
99.	Dinocap
100.	Dinotefuron
101.	Dithianon
102.	Diuron
103.	Dodine
104.	D-trans Allethrin
105.	Edifenphos
106.	Emamectin Benzoate
107.	Epoxyconazole
108.	Ethephon
109.	Ethion
110.	Ethiprole
111.	Ethofenprox (Etofenprox)
112.	Ethoxysulfuron
113.	Ethylene Dichloride and Carbon Tetrachloride mixture (EDCT Mixture 3:1)
114.	Etoxazole(FI)
115.	Famoxadone
116.	Fenamidone
117.	Fenazaquin
118.	Fenitrothion
119.	Fenobucarb (BPMC)
120.	Fenoxaprop-p-ethyl
121.	Fenpropathrin
122.	Fenpyroximate
123.	Fenvalerate
124.	Fipronil
125.	Flocoumafen (FI-WRT)
126.	Flonicamid
127.	Florasulam
128.	Fluazifop-p-butyl
129.	Flubendiamide
130.	Flucetosulfuron

131.	Fluchloralin
132.	Fluensulfone 47% TC (MUP) (FI)
133.	Flufenacet
134.	Flufenoxuron
135.	Flufenzine
136.	Flumioxazin
137.	Fluopicolide
138.	Fluopyram and its metabolite
139.	Flupyradifurone
140.	Fluroxypyr meptyl (FI-WRT)
141.	Flusilazole (TI)
142.	Fluthiacet methyl (TIM)
143.	Fluvalinate
144.	Fluxapyroxad (Combination formulation Fluxapyroxad 167 g/L + Pyraclostrobin 333g/l SC (FI -WRT)
145.	Fomesafen
146.	Forchlorfenuron
147.	Fosetyl-Al
148.	Gibberellic Acid
149.	Gossypure (PB-RopeL)
150.	Glufosinate Ammonium
151.	Glyphosate
152.	Haloxypyr-R-methyl {Haloxypyr-R-methyl 10.55%.EC formulation under category (FI)}
153.	Helosulfuron methyl
154.	Hexaconazole
155.	Hexazinone
156.	Hexythiazox
157.	Hydrogen Cyanamide
158.	Imazamox
159.	Imazethapyr
160.	Imidacloprid
161.	Imiprothrin
162.	Indaziflam {combination formulation Indaziflam+ Glyphosate ammonium under category (FI)}

163.	Indoxacarb
164.	Iprobenfos (Kitazin)
165.	Iprodione
166.	Iprovalicarb
167.	Isoprothiolane
168.	Isoproturon
169.	Kasugamycin
170.	Kresoxim Methyl
171.	Lambdacyhalothrin
172.	Lime Sulphur
173.	Lufenuron
174.	Magnesium Phosphide Plates
175.	Malathion
176.	Mancozeb
177.	Mandipropamid
178.	Mepiquate Chloride
179.	Meptyldiinocop
180.	Mesosulfuron Methyl (combination formulation Mesosulfuron Methyl + Iodosulfuron Methyl Sodium)
181.	Metaflumizone
182.	Metalaxyl
183.	Metalaxyl-M
184.	Metaldehyde
185.	Metamifop TI
186.	Metamitron (TIM)
187.	<i>Metarhizium anisopliae</i>
188.	Methabenzthiazuron
189.	Methomyl
190.	Methoxyfenazide (FI- WRT)
191.	Methyl Bromide
192.	Methyl Chlorophenoxy Acetic Acid (MCPA)
193.	1-MethylCyclopropene 3.3% V.P (1-MCP)(FI-WRT)
194.	Metiram
195.	Metofluthrin
196.	Metolachlor

197.	Metrafenone
198.	Metribuzin
199.	Metsulfuron Methyl
200.	Milbemectin
201.	Monocrotophos
202.	Myclobutanil
203.	Novaluron
204.	Nuclear polyhydrosis virus of <i>Helicoverpaarmigera</i>
205.	Nuclear polyhydrosis virus of <i>Spodopteralitura</i>
206.	Oxadiargyl
207.	Oxadiazon
208.	Oxathiapipron
209.	Orthosulfamuron
210.	Oxycarboxin
211.	Oxydemeton-Methyl
212.	Oxyfluorfen
213.	Pacloutrazol
214.	Paraquat dichloride
215.	Penconazole
216.	Pencycuron
217.	Pendimethalin
218.	Penflufen*
219.	Penoxsulam
220.	Permethrin
221.	Phenthoate
222.	Phosalone
223.	Picoxystrobin*TIM
224.	Pinoxaden
225.	Polyoxin D Zinc salt (FI-WRT)
226.	Prallethrin
227.	Pretilachlor
228.	Primiphos-methyl
229.	Prochloraz TI
230.	Profenophos
231.	Prohexadione Calcium

232.	Propamocarb hydrochloride technical 66% w/w min (Aqueous concentrate)
233.	Propanil
234.	Propaquizafop
235.	Propergite
236.	Propetamphos
237.	Propiconazole
238.	Propineb
239.	Propoxur
240.	<i>Pseudomonas fluorescens</i>
241.	Pymetrozin (FI), TIM
242.	Pyraclostrobin
243.	Pyrazosulfuron ethyl
244.	Pyrethrin (pyrethrum)
245.	Pyridaben (FI- WRT)
246.	Pyridalyl
247.	Pyrifthalid
248.	Pyriproxyfen (TI)
249.	Pyrithiobac sodium
250.	Pyroxasulfon (FI- WRT)
251.	Quinalphos
252.	Quizalofop ethyl
253.	Quizalofop-P-tefuryl
254.	Saflufenacil
255.	S-bioallethrin
256.	Sodium acifluorfen (Combination formulation Clodinafop-propargyl+ Sodium acifluorfen)
257.	Sodium paranitrophenolate
258.	Spinetoram
259.	Spinosad
260.	Spiromesifen
261.	Spirotetramat
262.	Streptomycin + Tetracycline
263.	Sulfentrazone(TIM)
264.	Sulfosulfuron
265.	Sulfoxaflor

266.	sulphur
267.	Tebuconazole
268.	Tembotrione
269.	Temephos
270.	Tetraconazole (FI)
271.	Tetraniliprole
272.	Thiacloprid
273.	Thifluzamide
274.	Thiobencarb (Benthiocarb)
275.	Thiocyclam Hydrogen oxalate
276.	Thiodicarb
277.	Thiomethoxam
278.	Thiophanate-Methyl
279.	Thiram
280.	Tolfenpyrad (TIM)
281.	Topramezone
282.	Transfluthrin
283.	Triacntanol
284.	Triadimefon
285.	Triafamone (combination formulation Triafamone 20% w/w + Ethoxysulfuron 10% WG % w/w SC FI)
286.	Triallate
287.	Triasulfuron
288.	Trichoderma harzianum
289.	Trichoderma viride
290.	Tricyclazole
291.	Trifloxistrobin
292.	Triflumezopyrim (TIM)
293.	Triflumizole (FI-WRT)
294.	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}
295.	Validamycin
296.	Verticillium lecanii
297.	Zinc Phosphide

298.	Zineb
299.	Ziram

(Updated on 01.07.2021)

**PESTICIDES AND FORMULATIONS REGISTERED FOR USE IN THE COUNTRY UNDER
THE INSECTICIDES ACT, 1968:**

Sl. No.	Name of the Pesticides	Formulation registered	No. of formulation
1.	2,4-Dichlorophenoxy Acetic Acid (2,4-D Sodium Amine and Ester Salt	a) 2,4-D Sodium Salt used as Tech a.i. 80% w/w min.	1
		b) 2,4-D Amine Salt 58% SL 22.5% SL	2
		c) 2,4-D Ethyl Ester 38% EC, 4.5% Gr., 20%WP,	3
2.	Abamectin	1.9% EC, 1.9% SC	2
3.	Acephate	75% SP, 95% SG, 97.0% DF	3
4.	Acetamiprid	20 SP	1
5.	Afidopyropen	50 g/l DC (FI-WRT)	1
6.	Allethrin	0.5% Coil, 4% Mat, 0.5% Aer., 3.6% L, 0.2% & 0.02% Coil	6
7.	Alphacypermethrin	10% EC, 5% WP, 0.5% Chalk, 10% SC, 0.1%RTU, 0.55% LLIBN, 0.667% LLIN, 0.66% W/W LLIN	8
8.	Alphanaphthyl Acetic Acid	4.5% Sol.	1
9.	Aluminium phosphide *(R)	56% Tab, 56% Powder, 77.5% Gr., 6% Tab, 15% (12gm)	5
10.	Amisulbrom	17.7% w/w (20% w/v) (FI-WRT)	1
11.	Amplomycesquisqualis	2.00%WP	1
12.	Anilofos	30% EC, 18% EC	2
13.	Ametryn	80%WG (FI)	1
14.	Atrazine	50% WP	1
15.	Aureofungin	46.15% SP	1
16.	Azadirachtin (neem products)	25%, 10%, 0.03% EC, 0.1% EC, 0.15% EC, 5% EC, 0.3%EC, 15% extract concentrâtes, 1% EC, 0.1% Gr, 0.15%Gr, 0.03% (300 PPM) w/w min	12
17.	Azimsulfuron	50% DF (F.I.)	1
18.	Azoxystrobin	23% SC (FI) ,23% SC(FIM)	2
19.	Bacillus subtilis	2.0% AS	1
20.	Bacillus thuringiensis var. sphaericus	1.3% FC	1
21.	Bacillus thuringiensis var. galleriae	1.3% FC	1
22.	Bacillus thuringiensis var. israelensis	Liquid &WP formulations, 5% AS, 12% AS, 5.0 % WP	3

23.	Bacillus thuringiensis var. kurstaki	5% WP, 2.5% As, 0.5% WP, 3.5% AS,	4
24.	Barium Carbonate	1% P	1
25.	Beauveria bassiana	1.15% WP, 1.0% WP, 1.15% SC, 10% SC, 5.0% WP	5
26.	Bendiocarb	80% WP	1
27.	Benfuracarb	40% EC, 3.0% GR	2
28.	Beta cyfluthrin	2.45% SC	1
29.	Bensulfuron Methyl	60% DF(FI)	1
30.	Bentazone	480 g/l SL	1
31.	Bifenazate	50% WP(FI) 22.6% SC(FI)	2
32.	Bifenthrin	10% EC, 2.5% EC, 23.4% MUP(Imp), 8% SC(FI), 0.05% MC(11 Hrs.), 10% WP, 0.05% MC(8 hrs), 8% SC (FIM), 8.8% CS	9
33.	Bispyribac sodium	10% SC (FI), 10% w/v SC (FIM)	2
34.	Bitertanol	25% WP	1
35.	Bromadiolone	0.25% CB, 0.005% RB & 0.005% RB cake	3
36.	Buprimate	26.7% w/w EC FI	1
37.	Buprofezin	25% SC, 70.0% DF	2
38.	Butachlor	50% EC, 5% Gr., 50% EW,	3
39.	Captan	50% WP, 75% WP, 50% WDG, 70% WS	4
40.	Carbendazim	25% DS, 50% WP, 46.27% SC, 5% Gr	4
41.	Carbofuran	3% CG,	1
42.	Carbosulfan	25% DS, 25% EC, 6% Gr.	3
43.	Carboxin	75% WP	1
44.	Carfentrazone-ethyl	40% EC, 40% DF(FI), 53% MUP(FI)	3
45.	Carpropamid	27.8% SC	1
46.	Cartap Hydrochloride	4% Gr., 50% SP, 75% SG	3
47.	Chlopropham	50% HN	1
48.	Chlorantraniliprole	18.5% SC, 0.4% Gr., 35% WG	3
49.	Chlorfenapyr	10% SC (FI)	1
50.	Chlorfenuron	10% SC(FI)	1
51.	Chlorfluazuron	5% EC w/w, 5% w/v, 5.4% EC(FI)&FIM	3
52.	Chlorimuron ethyl	25% WP,	1
53.	Chlormequat Chloride	50% Sol.	1
54.	Chlorothalonil	75% WP	1
55.	Chlorpyrifos	20% EC, 10% Gr., 1.5% DP, 50% EC, 2% RTU, 20.0% w/w CS, 75% WG	7
56.	Chlorpyrifos Methyl	40% EC	1
57.	Chromafenozide	80% WP	1
58.	Cinmethylen	10% EC	1

59.	Clodinafop-propargyl (Piroxofop-propinyl)	15% WP, 15% DF	2
60.	Clomazone	50% EC	1
61.	Clothianidin	50%WG (FI-WRT), 0.5% GR	2
62.	Clethodim	25% EC (FI-WRT)	1
63.	Copper Hydroxide	77% WP, 53.8% DF(FI)	2
64.	Copper Oxychloride	50% WP, 40% Paste, 5% DP, 50 WG, 56% OP	5
65.	Copper Sulphate	Used as Tech98% equivalent to cooper content 25% w/w min., 2.62% SC	2
66.	Coumachlor	0.5% CB, 0.025% RB	2
67.	Coumatetralyl	0.75% TP, 0.037% Bait.	2
68.	Cuprous Oxide	4% DP	1
69.	Cyantraniliprole	10.26% OD	1
70.	Cyazofamid	34.5% SC (FI)	1
71.	Cyenoxyrafen	30.0% w/w SC(FI-WRT)	1
72.	Cyfluthrin	10% WP, 5% EW,	2
73.	Cyflumetofen	20% SC	1
74.	Cyflufenamide	5% EW FI-WRT	1
75.	Cyhalofop-butyl	10% EC	1
76.	Cymoxonil	80% WP, 50% WP	2
77.	Cypermethrin	10% EC, 25% EC, 1% Chalk, 0.1% Aquous (HH), 0.25 DP, (3% Smoke Generator- to be used only through Pest Control Operators and not allowed to be used, 1% DP	7
78.	Cyphenothrin	5% EC, 0.15% in combination as Aer. , 7.2% VP	3
79.	Dazomet	Dazomet Technical (soil Sterilant GR) not permitted on tea	1
80.	Decamethrin (Deltamethrin)	2.5% Flow, 2.5% WP, 2.8% EC, 0.5% Chalk, 1.25% ULV, 25% Tab., 11% EC, 0.5% Tablet, 1.8% EC, 2% w/w EW, 55 mg/m ² (impregnated bed net), 1% RTU	12
81.	Diafenthiuron	50% WP, 47.8% SC	2
82.	DichloroDiphenylTrichloroethane (DDT)*R	50% WP, 75% WP	2
83.	Dichloropropene and Dichloropropane mixture (DD Mixture) *(R)	1:1	1
84.	Diclofop-methyl	28% EC	1

85.	Diclosulam	84% WDG(FI)	1
86.	Dicofol	18.5% EC	1
87.	Difenoconazole	25% EC, 3% WS	2
88.	Diflubenzuron	25% WP,2%Tab (FI) 2% Tab(FIM),2%Gr,(FI), 2% Gr(FIM)	5
89.	Dimethoate	30% EC	1
90.	Dimethomorph	50% WP	1
91.	Dinotefuran	20% SG (F.I.M v/s FIT)	1
92.	Dinocap	48% EC	1
93.	Dithianon	75% WP	1
94.	Diuron	80% WP	1
95.	Dodine	65% WP, 50% flow, 40% SC	3
96.	D-trans allethrin	2% Mat, 0.1% coil (8hrs), 0.1% coil (12 hr.), 0.1% Coil(11hrs), 0.1% Coil (6hrs), 21.97% Mos. Mat, 0.25 aerosol	7
97.	Edifenphos	50% EC	1
98.	Emamectin Benzoate	5% SG (FI) & (FIM) , 1.9% EC, 0.1% Gel	3
99.	Ethephon	39% SL, 10% Paste	2
100.	Ethion	50% EC	1
101.	Ethofenprox (Etofenprox)	10% EC	1
102.	Ethoxysulfuron	10% EC, 15%WG (FI)	2
103.	Ethylene Dichloride and Carbon Tetrachloride mixture (EDCT mixture 3: 1)	3:1	1
104.	Etoxazole	10%SC (FI)	1
105.	Fenazaquin	10 EC	1
106.	Fenitrothion*R	2% Spray, 20% OL (banned in agriculture use except for locust in scheduled dessert area and public health), 40% WDP	3
107.	Fenobucarb (BPMC)	50% EC	1
108.	Fenoxaprop-p-ethyl	10% EC, 9.3% EC,6.7% EC, 9% WF	4
109.	Fenpropathrin	10% EC, 30% EC	2
110.	Fenpyroximate	5% EC, 5% SC	2
111.	Fenvalerate	0.4% DP, 20% EC, 2% concentrate	3
112.	Fipronil	0.3% Gr., 5% SC, 0.05% Gel (Import) & FIM, 80%WG (FI & FIM), 2.92% EC, 0.6% GR, 18.87% w/w SC, 0.6% WG	7
113.	Flonicamide	50% WG	1
114.	Flocoumafen	0.005% BB (FI-WRT)	1
115.	Fluazifop-p-butyl	13.4% EC	1
116.	Flubendiamide	39.35%SC,20%WG, 0.7% GR	3

117.	Flucetosulfuron	10% WG (FI)	1
118.	Fluchloralin	45% EC	1
119.	Fluensulfone	47% MUP (FI), 2.0% GR,	2
120.	Flufenacet	60% WP	1
121.	Flufenoxuron	10% DC	1
122.	Flumioxazin	50.0% w/w SC	1
123.	Flumite	20% SC	1
124.	Fluopyram	34.48% SC	1
125.	Flupyradiflurone	17.9% w/w SL	1
126.	Fluroxypyr meptyl	48% W/v (45.5% w/w) EC	1
127.	Flusilazole	40% EC	1
128.	Fluthiacetmethyl	10.3% w/w EC (FIM)	1
129.	Fluvalinate	25% EC	1
130.	Fluxapyroxad	333g/l FS (FI)	1
131.	Forchlorfenuron (CPPU)	0.1%, 0.12% EC (FI)	2
132.	Fosetyl-Al	80% WP	1
133.	Gibberellic Acid	Tech. P, 0.186% SP, 0.001% L, 40% WSG, 0.1% G	5
134.	Glufosinate Ammonium	13.5% SL, 50.0% TK	2
135.	Glyphosate	41% SL, 20.2% SL, 5%SL	3
136.	Glyphosate ammonium salt	71% SG, 5% SL(FI), 20% SL	3
137.	Glyphosate Isopropyl amine salt (IPA)	41% SL	1
138.	Halosulfuron methyl	75% WG(FI)	1
139.	Haloxypf R Methyl	10.5% EC (FI)	1
140.	Hexaconazole	5% EC, 5% SC, 2% SC, 75% WG	4
141.	Hexythiazox	5.45% EC	1
142.	Hydrogen cyanamid	49% age, 50% SL	2
143.	Imazethapyr	10% SL, 70% WG (FI)	2
144.	Imidacloprid	17.8% SL, 70% WS, 48% FS, 30.5% SC, 2.5%Gel, 70%WG, 0.3% Gr, 0.5% RB(FI), 0.03 % w/w Gel(FI), 2.15% gel	10
145.	Imiprothrin	50% MUP	1
146.	Indoxacarb	14.5% SC,15.8%EC	2
147.	Iprobenfos (Kitazin)	48% EC, 17% Gr.	2
148.	Iprodione	50% WP	1
149.	Isoprothiolane	40% EC	1
150.	Isoproturon	50% WP, 75% WP, 50% Flow	3
151.	Kasugamycin	3% SL	1
152.	Kresoxim-methyl	44.3%(500 g/l)SC	1
153.	Lambda-cyhalothrin	2.43%CS ,5% EC, 10% WP, 2.5% EC, 0.5% Chalk, 22.8%CS(FI), 4.9%CS, 9.7% CS	8
154.	Lime Sulphur	22% SC	1
155.	Lufenuron	5.4% EC	1

156.	Magnesium phosphide Plates	56%Min. Plates (FI) &FIM	2
157.	Malathion	5% DP, 25% WP, 50% EC, 0.25% Spray and 96% ULV, 2% Spray, 5% Spray	7
158.	Mancozeb	75% WP, 35% SC, 75%WG	3
159.	Mandipropamid	23.4% SC	1
160.	Mepiquat Chloride	5%AS, 50% TK	2
161.	Meptyldinocap	35.7% w/w EC	1
162.	Metaflumizone	22% SC (FI)	1
163.	Metalaxyl	35% WS, 40% WS	2
164.	Metalaxyl – M	31.8% ES	1
165.	Metaldehyde	2.5% DP	1
166.	Metamitron	60%SC	1
167.	Metamifop	10% EC	1
168.	Metarhiziumanisopliae	1.15 % WP, 1.0% WP, 1.5% Liquid	3
169.	Methabenzthiazuron	70% WP	1
170.	Methomyl(12.5% L& 24% formulationsare bannedfor import, manufacture and use)	40% SP	1
171.	Methyl bromide *(R)	99% L, 98% L	2
172.	Methyl chlorophenoxy acetic acid (MCPA)	40% SL or 40% As, 40% WSC	2
173.	1-methyl cyclopropene	3.3% VP	1
174.	Methoxyfenazide	21.8% w/w SC (FI)	1
175.	Metiram	70% WG	1
176.	Metofluthrin	0.005% Mosquito coil, 5%EC, 0.32% w/w LV	3
177.	Metolachlor	50% EC	1
178.	Metrafenone	500g/l SC	1
179.	Metribuzin	70% WP	1
180.	Metsulfuron-methyl	20% WP, 20%WG(FI), 20 % WG FIM	3
181.	Milbemectin	1%EC	1
182.	Monocrotophos*R	36% SL, 15% w/w SG	2
183.	Myclobutanil	15%SG,10%WP	2
184.	Novaluron	10% EC (FI), 8.8% SC, 10% EC	3
185.	NPV of Helicoverpaarmigera	0.43% AS, 2.0% AS. 0.5% AS	3
186.	NPV of Spodopteralitura	0.5% AS	1
187.	Orthosulfamuron	50% WG	1
188.	Oxadiargyl	80% WP, 6% EC	2
189.	Oxadiazon	25% EC	1
190.	Oxathiapipron	10.1% w/w (FI)	1
191.	Oxycarboxin	20% EC	1
192.	Oxydemeton-methyl	25% EC	1
193.	Oxyfluorfen	23.5% EC, 0.35% Gr.	2

194.	Paclobutrazol	23% SC(FI), 23% SG, 40.0% w/w SC	3
195.	Paraquat dichloride	24% SL	1
196.	Penconazole	10% EC	1
197.	Pencycuron	22.9% SC	1
198.	Pendimethalin	30% EC, 5% Gr.,38.7%CS (FI) & FIM	4
199.	Penflufen	22.43% FS,	1
200.	Penoxsulam	21.7% SC(FI), 2.67% OD(FI), 50% w/w MUP, 21.7% SC (FIM v/s FIT),	4
201.	Permethrin	25% EC, 5% SG., 2% EC, LLIN 2% (FI)	4
202.	Phenthoate	2% DP, 50% EC	2
203.	Phosalone	4% DP, 35% EC	2
204.	Picoxystrobin	22.52% SC (FI), 22.5 % w/w SC (FIM v/s FIT)	1
205.	Pinoxaden	5.1% EC	1
206.	Piroxafof propynyl	15% WP	1
207.	Polyoxin D Zinc salt	5% SC	1
208.	Prallethrin	0.8% mat for 12 hours, 1% Mat, 0.8% L, 1.6% L, 0.5% mosquito coil, 0.04% Mosquito coil, 1.2% mat, 19% w/w VP, 0.6% mat, 2.4%LV, 0.005% M. Coil	11
209.	Pretilachlor	50% EC, 30.7% w/w EC,37.0%EW	3
210.	Primiphos-methyl	25% WP, 50% EC, 1% Spray	3
211.	Prochloraz	39.6% EC	1
212.	Profenophos	50% EC	1
213.	Prohexadione calcium	10% WG (FI)	1
214.	Propanil	35% EC	1
215.	Propaquizafop	10% EC(FI)	1
216.	Propergite	57% EC	1
217.	Propetamphos	20% EC, 1% Spray	2
218.	Propiconazole	25% EC	1
219.	Propineb	70% WP	1
220.	Propoxur	20% EC, 1% Aer., 2% Aer. 1% HH Spray, 2% Bait	5
221.	Pseudomonas flourosceus	0.5%WP,1.75%WP, 1%WP,1.5 %WP, 2.0% AS, 1.5% LF	6
222.	Pymetrozine	50%WG(FI), 50% WG (FIM v/s FIT)	2
223.	Pyrazosulfuron-ethyl	10% WP, 70% WDG(FI)	2
224.	Pyrethrins (Pyrethrum)	0.2% DP, 2.5% EC, 0.05% Spray, 0.2% PH, 2.0% EC	5
225.	Pyridaben	20% w/w WP (FI)	1
226.	Pyridalyl	10% EC	1
227.	Pyriproxifen	0.5% Gr(FI), 0.5% GR (FIM v/s FIT) 10%EC(FI), 10 % EC (FIM)	3
228.	Pyriithiobac Sodium	10% EC	1
229.	Pyraclostrobin	20% WG (FI), 100 g/l CS(FI)	1
230.	Pyroxasulfone	85.0 % w/w WG (FI-WRT)	1

231.	Quinalphos	1.5% DP, 25% EC, 20% AF, 5%Gr, 25% EC	5
232.	Quizalofop ethyl	10% EC(FI) (FIM), 5% EC (FI), 15.0% EC (FIM)	4
233.	Quizalofop-p-tefuryl	4.41% EC (FI)	1
234.	Saflufenacil	70 % WG (FI)	1
235.	S-Bioallethrin	2.4% mat	1
236.	Sodium paranitrophenolate	1.8% SL(FI), 0.3% SL	2
237.	Spinetoram	11.7% SC (FI)	1
238.	Spinosad	45% SC, 2.5% SC	2
239.	Spiromesifen	22.9% SC	1
240.	Spirotetramat	15.31% OD	1
241.	Streptomycin + Tetracycline	90: 10 SP	1
242.	Sulfentrazone	39.6% SC	1
243.	Sulfoxaflor 21.8% SC(FI)	21.8% SC(FI)	1
244.	Sulfosulfuron	75% WG	1
245.	Sulphur	85% DP, 80% WP, 40% SC, 80% WG/WDG , 55.16 SC (800 gm / L)40%WP,52%SC	7
246.	Tebuconazole	2.5% DS, 2% DS, 25.9%EC, 25% WG, 5.36% FS, 5.4% (6.0%w/v) FS, 38.39% SC	7
247.	Tembotrione	34.4% SC	1
248.	Temephos	50% EC, 1% Sand Granules	2
249.	Tetraconazole	3.8% EW (FI), 11.6% w/w (12.5% w/v) SL (FI)	2
250.	Tetraniliprole	18.18% SC	1
251.	Thiacloprid	21.7% SC	1
252.	Thifluzamide	24% SC	1
253.	Thiobencarb(Benthiocarb)	50% EC, 10% Gr.	2
254.	Thiocyclam hydrogen oxalate	50% SP, 4% Gr	2
255.	Thiodicarb	75% WP	1
256.	Thiomethoxam	25% WG, 70% WS, 30%FS, 75% SG, 0.01% Gel bait	5
257.	Thiophanate-methyl	70% WP, 70% w/w WG	2
258.	Thiram	80% WP, 40% FS,75%WS	3
259.	Tolfenpyrad	15%EC	1
260.	Topramizone	336 g/l SC(FI)	1
261.	Transfluthrin	0.88% Liquid Vaporiser, 0.03% Mos. Coil, 20%MV Gel(30 days mat tray), 1% FU, 1.2% LV, 1.6% LV, 12.0 % AE, 0.08% Aer.	8
262.	Triadimefon	25% WP	1
263.	Triallate	50% EC	1
264.	Triasulfuron	20%WG	1
265.	Trichodermaviride	1% WP (CFU 2x10 ⁶ gm/min), 0.5% WP, 5%WP , 1.5% WP	4

266.	Tricodermaharzianum	0.5% WS, 2.0% WP, 1.0% WP	3
267.	Tricontanol	0.05% EC, 0.1% EW, 0.05% GR	3
268.	Tricyclazole	75% WP, 70% WG	2
269.	Triflumezopyrim	10% SC	1
270.	Triflumizole	42.14% SC	1
271.	Trifluralin {The registration , import, manufacture , formulation, transport, sell and its alluses except use in wheat shall prohibitedand completely bannedvide S.O. 3951(E) dated 8 th August, 2018}	48% EC, (All uses of this product shall be completely banned except use in wheat).	1
272.	Validamycin	3% L	1
273.	Verticilliumlecanii	1.15% WP, 1.5% Liquid	2
274.	Verticilliumchlamydosporium	1.00 WP	1
275.	Zinc Phosphide	2% RB, 80% Powder, 1% Bait	3
276.	Zineb	75%WP,80% WP, 27% Colloidal Suspension	3
277.	Ziram	80% WP, 27% SC	2
	Total		589

*R: Restricted

1. APPROVED FORMULATION OF COMBINATION PESTICIDES:

Sl. No.	Combination Product	Company
A. INSECTICIDES		
1.	Acephate 50% + Bifenthrin 10% WDG	M/s GSP Crop Science Ltd., Ahmedabad
2.	Acephate 45% + Cypermethrin 5% DF	M/s UPL Limited.
3.	Acephate 25% + Fenvalerate 3% EC	M/s Rallis India Ltd., Bangalore
4.	Acephate 50% + Imidacloprid 1.8% SP	M/s United Phosphorus Ltd.
5.	Acephate 5% + Imidacloprid 1.1% SP	M/s United Phosphorus Ltd.
6.	Acetamiprid 0.4% + Chlorpyrifos 20% EC	M/s Gharda Chemicals Ltd, Mumbai
7.	Acetamiprid 1.1% + Cypermethrin 5.5% w/w EC	M/s United Phosphorus Ltd. M/s Gharda chemicals
8.	Azoxystrobin 2.5%+Thiophanate Methyl 11.25% + Thiamethoxam 25% FS	M/s United Phosphorus Ltd.
9.	Beta cyfluthrin 8.49% + Imidacloprid 19.81% OD	M/s Bayer Crop Science Ltd , Mumbai
10.	Bifenthrin 3% + Chlorpyrifos 30% w/w EC	M/s Insecticide India Ltd
11.	Buprofezin 15% + Acephate 35% WP	M/s. Makhteshim Agan Pvt. Ltd.
12.	Buprofezin 20% + Acephate 50% w/w WP	M/s Rallis India Ltd., Bangalore
13.	Buprofezin 9.0% + Acephate 24.0% w/w WP	M/s Crystal Crop Protection Pvt. Ltd., Delhi
14.	Buprofezin 22.0% + Fipronil 3.0% SC	M/s Insecticides India Ltd.
15.	Buprofezin 23.1% + Fipronil 3.85% SC	M/s ADAMA India Ltd.
16.	Cartap hydrochloride 50% + Buprofezin 10% WP	M/s Krishi Rasayan Exports Pvt. Ltd.
17.	Cartap Hydrochloride 7.5% w/w + Emamectine Benzoate 0.25% w/w GR	M/s ADAMA India Pvt. Ltd.
18.	Chlorantraniliprole 4.3% + Abamectin 1.7% w/w SC	M/s Syngenta India Ltd.,
19.	Chlorantraniliprole 8.8% w/w + Thiamethoxam 17.5% w/w SC	M/s Syngenta India Ltd.,
20.	Chlorantraniliprole 9.3% + Lambdacyhalothrin 4.6% ZC	M/s Syngenta India Ltd.,
21.	Chloropyrifos 16% + Alphacypermethrin 1% EC	M/s Acco Industries Ltd., Mumbai

22.	Chlorpyrifos 50% + Cypermethrin 5% EC	M/s De-Nocil, Mumbai
23.	Chlorpyrifos 50% + Cypermethrin 5% WG	M/s Sulphur Mills Ltd
24.	Chlorpyrifos 35.0% + Fipronil 3.5% w/w EC	M/s Gharda Chemicals Limited
25.	Cyclanilide 2.10% + Mepiquat Chloride 8.40% SC	
26.	Cyantranilprole 19.8% + Thiamethoxam 19.8% FS	M/s. Syngenta India Ltd.,
27.	Cyfluthrin 0.025% + Tranfluthrin 0.04% water base	M/s Bayer India M/s S C Johenson Product Ltd
28.	Cypermethrin 10% + Indoxacarb 10% SC	M/s Gharda Chemicals Ltd
29.	Cypermethrin 3% + Quinalphos 20% EC	M/s United Phosphorus Ltd
30.	D-trans-allevethrin 0.1% + Permethrin 0.03% + Imiprothrin 0.02% Aerosol	M/s Reckitt Benckiser (I) Ltd. M/s Hindustan food Limited
31.	Deltamethrin 0.05% + Allethrin .04% L	
32.	Deltamethrin 0.02% + Allethrin 0.13%	
33.	Deltamethrin 2.5% + D-trans-allevethrin 2.0% EC	
34.	Deltamethrin 0.72% + Buprofezin 5.65% EC	
35.	Difenthiuron 40.1% + Acetamiprid 3.9% w/w	M/s Insecticides India Pvt. Ltd.
36.	Difenthiuron 47.0% + Bifenthrin 9.4% SC	M/s ADAMA India Ltd
37.	Diafenthiuron 30% + Pyriproxifen 8% w/w SE	M/s Parijat Industries (India) Pvt. Ltd.
38.	Diflubenzuron 20% + Deltamethrin 2% SC	M/s. Chemtura Chemical India Pvt. Ltd. M/s Arysta Life Science
39.	Dinotefuran 4% + Acephate 50% SG	M/s P I Industries Ltd.
40.	Emamectin Benzoate 1.5% + Fipronil 3.5% SC	M/s Crystal crop Protection Pvt. Ltd.
41.	Emamectin Benzoate 3.0% + Thiamethoxam 12.0% WG	M/s UPL Ltd., Mumbai M/s Insecticides India Ltd.
42.	Emamectin Benzoate 5% + Lufenuron 40% w/w WG	M/s Syngenta India Ltd.
43.	Ethion 40% + Cypermethrin 5% EC	M/s Rallis India Ltd., Bangalore.
44.	Ethiprole 40% + Imidacloprid 40% (80% WG)	M/s Bayer Crop Science Ltd,

45.	Fipronil 4% + Acetamiprid 4% w/w SC	M/s Parijat Industries India Ltd.
46.	Fipronil 7% + Hexythiazox 2% w/w SC	M/s Coromandal international Ltd.
47.	Fipronil 40% + Imidacloprid 40% WG	M/s Bayer Crop Science Ltd
48.	Fenobucarb 20% +Buprofezin 5% SE	M/s Crystal crop Protection Pvt. Ltd., Delhi
49.	Fipronil 4% Thiamethoxam 4% w/w SC	M/s Parijat Industries (India) Pvt. Ltd., New Delhi
50.	Flubendiamide 4%+Buprofezin 20% SC	M/s. Rallis India Ltd. Bangalore
51.	Flubendiamide 8.13% + Deltamethrin 5.56% SC	
52.	Flubendiamide 7.5% + Kresoxim methyl 37.5% SC	M/s Rallis India Ltd
53.	Hexaconazole 4.0% + Carbendazim 16.0 SC	M/s Insecticides India Ltd., New Delhi
54.	Imidacloprid 21% + Beta-cyfluthrin 10.5% SC	M/s Bayer Crop Science Ltd, Mumbai
55.	Imidacloprid 18.5% + Hexaconazole 1.5% FS (Seed Dresser)	M/s Rallis India Ltd., Bangalore
56.	Imidacloprid 6.0% + Lambdacyhalothrin 4.0% SL	M/s Willowood Chemical Pvt. Ltd.
57.	Imiprothrin 0.05% + Cypermethrin 1.0% CL	M/s Godrej Consumer Products Ltd., Mumbai
58.	Imiprothrin 0.07% + Cypermethrin 0.20% Aerosol	M/s Godrej Consumer Products Ltd., Mumbai
59.	Imiprothrin 0.1% + Cyphenothrin 0.15%	
60.	Indoxacarb 14.5% + Acetamiprid 7.7% SC	M/s Rallis India Ltd., Bangalore.
61.	Isoprothiolane 28% + Fipronil 5% w/w EC	M/s Parijat Industries (India) Pvt. Ltd., New Delhi
62.	Methyl bromide 98% + chlorpicrin 2%	
63.	Novaluron 5.25% + Indoxacarb 4.5% SC	M/s Makhteshim Agan India Pvt Ltd M/s ADAMA India Ltd
64.	Novaluron 5.25% + Emamectin benzoate 0.9% w/w SC	M/s. ADAMA India Pvt. Ltd.,
65.	Phosalone 24% + Cypermethrin 5% EC	M/s Aventis CropscienceLtd..
66.	Profenofos 40% + Cypermethrin 4% EC	M/s Syngenta India Limited, Pune

67.	Profenofos 40% + Fenpyroximate 2.50%EC	M/s Excel Crop Care Ltd., Mumbai M/s Sumito chemicals Ltd.
68.	Propoxur 0.25% + Cyfluthrin 0.025% Aerosal	M/s Bayer India
69.	Propoxur 0.5% + Cyfluthrin 0.015% Spray	
70.	Propoxur 0.5% + Cyfluthrin 0.025% Spray	
71.	Propoxur 1% + Cyfluthrin 0.025% Aerosal	
72.	Pyriproxyfen 10% + Bifenthrin 10% w/w SC	M/s Parijat Industries (India) Pvt. Ltd., New Delhi
73.	Pyriproxyfen 10% + Bifenthrin 10% w/w EC	M/s Parijat Industries (India) Pvt. Ltd., New Delhi
74.	Pyriproxyfen 5.0% + Diafenthiuron 25% SE	M/s GSP crop life Pvt Ltd.
75.	Pyriproxyfen 5% + Fenpropathrin 15% EC	M/s Sumitomo Chemical India Pvt. Ltd.
76.	Pyrethrin 0.05% + Malathion 1% Household	
77.	Spirotetramat 11.01% w/w + Imidacloprid 11.01% w/w SC (FIM)	M/s Bayer Crop Science Ltd., Mumbai
78.	Thiamethoxam 0.9%+ Fipronil 0.2% GR	Crystal Crop Protection Pvt Ltd.
79.	Thiamethoxam 12.6% + Lambda-cyhalothrin 9.5% ZC	M/s Syngenta India Ltd.
80.	Thiamethoxam 1.0% w/w + Chlorantraniliprole 0.5% w/w GR	M/s Syngenta India Ltd., Pune
81.	Transfluthrin 1.0% + Cypermethrin 0.25 % Spray	
82.	Propargite 42% + Hexythiazox 2% EC	M/s Indofil Industries Ltd.
83.	Propargite 50% + Bifenthrin 5% SE	

B. FUNGICIDES

1.	Ametoctradin 27% + Dimethomorph 20.27 %SC	BASF India Ltd., Mumbai
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2.	Azoxystrobin 4.8% w/w + Chlorothalonil 40.0% w/w SC	M/s Syngenta India Ltd.
3.	Azoxystrobin 18.2% + Cyproconazole 7.3% w/w SC	M/s Syngenta India Ltd.
4.	Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC	M/s Syngenta India Ltd.
5.	Azoxystrobin 8.3%+ Mancozeb 66.7% WG	M/s United Phosphorus Ltd.,
6.	Azoxystrobin 11.5%+ Mancozeb 30.0% WG	M/s Crystal Crop Protection Pvt. Ltd., Delhi
7.	Azoxystrobin 16.7%+ Tricyclazole 33.3% SC	M/s Crystal Crop Protection Pvt. Ltd., Delhi
8.	Azoxystrobin 11.0%+ Tebuconazole 18.3% SC	M/s GSP Crop Science Pvt. Ltd., Ahmedabad
9.	Azoxystrobin 12.5%+ Tebuconazole 12.5% SC	M/s Excel Crop care Ltd. Mumbai M/s Sumitomo chemicals India Ltd.
10.	Azoxystrobin 7.1 % + Propiconazole 11.9% SE (Import) and FIM	M/s Adama Makhteshim Ltd..
11.	Benalaxyl-M 4.0% + Mancozeb 65.0% WP	M/s Sagro (Asia) Agrochemical Pvt. Ltd.
12.	Benalaxyl 8.0 % + Mancozeb 65% WP	M/s FMC India Ltd.
13.	Boscalid 25.2+ Pyraclostrobin 12.8% WG	M/s BASF India Ltd., Mumbai
14.	Captan 70%+Hexaconazole 5% WP	M/s Rallis India Ltd.
15.	Carbendazim 12% + Mancozeb 63% WP	M/s United Phosphorus Ltd., Mumbai
16.	Carbendazim 12% + Mancozeb 63% WS	M/s United Phosphorus Ltd., Mumbai
17.	Carbendazim 1.92% + Mancozeb 10.08% GR	M/s United Phosphorus Ltd., Mumbai
18.	Carbendazim 25% + Mancozeb 50% WS	M/s Indofil Industries Ltd.
19.	Carbendazim 25% Flusilazole 12.5% SE	M/s Dhanuka Agritech Ltd.
20.	Carboxin 17.5% + Thiram 17.5% FF	M/s Chemchura Chemical Pvt. Ltd. M/s Arysta Life Science
21.	Carboxin 37.5% + Thiram 37.5% WS	M/s Crompton Specialties Asia Pacific. M/s Arysta Life Science
22.	Carfentrazone Ethyl 20% + Sulfosulfuron 25% WG	M/s FMC India Pvt. Ltd., Bangalore
23.	Cartap hydrochloride 4% + Fipronil 0.5% w/w CG	M/s Willowood Chemicals Pvt. Ltd.,

24.	Copper Sulphate 47.15 % + Mancozeb 30 % WDG	UPL Ltd. Mumbai
25.	Cymoxanil 8%+Mancozeb 64% WP	
26.	Dimethomorph 12% + Pyraclostrobin 6.7% WG (FI)	M/s. BASF India Pvt. Ltd., Mumbai
27.	Famoxadone 16.6% + Cymoxanil 22.1% SC	M/s EI Dupont India Pvt. Ltd, Gurgaon
28.	Fenamidone 10% + Mancozeb 50% WDG(FI)	M/s Bayer Crop Science Ltd
29.	Fenamidone 4.44% + Fosetyl-Al 66.66% WDG(FI)	M/s Bayer Crop Science Ltd
30.	Fluocoplid 4.44% + Fosetyl-Al 66.66% WDG(FI)	M/s Bayer Crop Science Ltd
31.	Fluopicolide 5.56% w/w + Propamocarb hydrochloride 55.6% w/w SC	M/s Bayer Crop Science Ltd
32.	Fluopyram 17.7 % + Tebuconazole 17.7% SC	M/s Bayer Crop Science Ltd., Mumbai
33.	Fluxapyroxad 75 g/l + Difenconazole 50g/l SC	M/s BASF India Ltd., Mumbai
34.	Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC(FI)	M/s BASF India Ltd., Mumbai
35.	Fluxapyroxad 167 g/L + Pyraclostrobin 333g/l SC (FI)	M/s BASF India Ltd., Mumbai
36.	fluxapyroxad 62.5 g/l + epoxiconazole 62.5 g/l EC	M/s BASF India Ltd., Mumbai
37.	Hexaconazole 4% + Carbendazim 16% w/w SC	M/s Insecticide India Ltd.
38.	Hexaconazole 5% + Validamycin 2.5% SC	M/s Willowood chem. Pvt ltd.
39.	Hexaconazole 4% + Zineb 68% WP	M/s Indofil Industries Ltd.
40.	Improvalicarb 5.5% + Propineb 61.25% WP	M/s Bayer Crop Science Ltd
41.	Iprodion 25% + Carbendazim 25% WP	M/s Aventis Crop science Ltd., Mumbai
42.	Kasugamycin 5% + Copper Oxychloride 45% WP	M/s. Dhanuka Agritech Ltd.
43.	Kresoxim methyl 15% + chlorothalonil 56% WG	Rallis India ltd
44.	Kresoxim methyl 40%+ Hexaconazole 8% w/w WG	Rallis India ltd
45.	Kresoxim methyl 18%+ Mancozeb 54% w/w WP	M/s Rallis India Ltd.

46.	Mancozeb 40% +Azoxystrobin 7.0% w/w OS	M/s Coromandel International Ltd., Telangana
47.	Mandipropamid 5.0% w/w + Mancozeb 60.0% w/w WG (FI)	M/s Syngenta India Limited'
48.	Metalaxyl –M 3.3% + Chlorothalonil 33.1% SC	M/s Syngenta India Ltd.,
49.	Metalaxyl -M 8% + Mancozeb 64% WP	M/s Syngenta India Ltd, Pune
50.	Metalaxyl-M 4% + Mancozeb 64% WP	M/s Syngenta India Ltd.
51.	Metiram 55% + Pyraclostrobin 5% WG (FI)	M/s BASF India Ltd.
52.	Metiram 44% + Dimethomorph 9% w/w WG (FI)	M/s BASF India Ltd.
53.	Penflufen 13.28% w/w + Trifloxystrobin 13.28 w/w FS	M/s Bayer Cpyriproamrop Science Ltd
54.	Picoxystrobin 6.78 %+ Tricyclazole 20.33% SC	M/s E.I. Dupont India private Ltd,
55.	Picoxystrobin 7.05 %+Propiconazole 11.71%SC	M/s E.I. Dupont India private Ltd,
56.	Prochloraz 34.8% + Propiconazole 7.8% EC	M/s ADAMA India Pvt. Ltd.
57.	Prochloraz 24.4% + Tebuconazole 12.1%w/w EW (FI)	ADAMA India Pvt. Ltd.
58.	Prochloraz 5.7% + Tebuconazole 1.4% EC	M/s ADAMA India Pvt. Ltd.
59.	Propiconazole 10.7% + Tricyclazole 34.2% SE	M/s Syngenta India Ltd, Pune
60.	Propiconazole 13.9% + Difenconazole 13.9% EC	M/s Syngenta India Ltd.
61.	Propineb 54.2%+ Tricyclazole 15.0% WP	M/s Coromandel International Ltd., Telangana
62.	Pyroclostrobin 133g/l+ Epoxiconazole 50 g/l (w/v) SE(FI)	M/s BASF India Ltd.
63.	Pyrithiobac Sodium 6% + Quizalofop Ethyl 4% w/w EC	M/s Godrej Agrovet Ltd., Mumbai
64.	Quizalofop ethyl 10% EC + Chlorimuron ethyl 25% WP + Surfactant (0.2) Twin pack	M/s. Dhanuka Agritech Ltd., New Delhi
65.	Quizalofop ethyl 4% + Pyrithiobac sodium 6.0% w/w EC	M/s Godrej Agrovet Ltd., Mumbai
66.	Quizalofop ethyl 4% + Oxyfluorfen 6% EC weed	M/s Dhanuka Agritech Ltd.
67.	Streptomycin + Tetracycline (90+10)	M/s Hindustan Antibiotics Ltd., Mumbai

68.	Tebuconazole 6.7% + Captan 26.9% w/w SC	M/s. ADAMA India Pvt. Ltd.,
69.	Tebuconazole 10% + Sulphur 65% WG	M/s Excel Crop Care Ltd., Mumbai M/s Sumitomo chemicals
70.	Tebuconazole 50% + Trifloxystrobin 25% WG (FI)	M/s Bayer Crop Science Ltd., Mumbai
71.	Tebuconazole 15% + Zineb 57% w/w WDG	M/s UPL Ltd.
72.	Thiophanate Methyl 450 g/L+Pyroclostrobin 50 g/L FS (FI)	M/s. B ASF India Ltd.
73.	Triafamone 20% w/w + Ethoxysulfuron 10% WG %w/wSC	M/s Bayer Crop Science Ltd., Mumbai
74.	Tricontanol 80g/ L + Pyraclostrobin 40g /L FS	M/s BASF India Pvt Ltd.
75.	Tricyclazole 45% + Hexaconazole 10% WG	M/s Indofil Industries Ltd.
76.	Tricyclazole 18.0 w/w + Tebuconazole 14.4% w/w SC	M/s Dow Agroscience India pvt ltd., Mumbai
77.	Tricyclazole 20.4 %w/w + Azoxystrobin 6.8% SC	M/s Dow Agroscience India pvt ltd., Mumbai
78.	Tricyclazole 18% + Mancozeb 62% WP	M/s Indofil Industries Ltd.
79.	Chlorothalonil 40% w/w + Difenconazole 4% w/w SC	M/s Syngenta India Ltd.
80.	Mancozeb 50% + Thiophanate methyl 25% WG	M/s UPL Ltd
81.	Prochloraz 5.7% w/w + Tebuconazole 1.4% w/w ES	M/s Adama India Ltd
C. HERBICIDES		
1.	Anilofos 24% + 2, 4-D 32% EC	M/s Aventis Cropscience Ltd., Mumbai
2.	Bensulfuron methyl 0.6% + Pretilachlor 6% Gr	M/s NagarjunaAgrichem
3.	Carfentrazone-ethyl 20% + sulfosulfuron 25% WG	M/s FMC India Pvt. Ltd.,
4.	Carfentrazone ethyl 0.43% + Glyphosate 30.82% w/w EW	M/s FMC India Pvt. Ltd., Bangalore
5.	Clodinafop propargyl 9% + Metribuzin 20% WP	M/s. Crystal Plant Protection P. Ltd.
6.	Clodinafop-propargyl 15%+ Metsulfuran methyl 1%WP	M/s United Phosphorus Ltd.

7.	Clodinafop-propargyl 16.5% + Sodium acifluorfen 8%WP	M/s United Phosphorus Ltd.
8.	Clomazone 20% + 2,4-diethyl ester 30% EC	M/s FMC India Pvt. Ltd.
9.	Clomazone 22.5% + Metribuzin 21% WP	M/s FMC India Pvt. Ltd.
10.	Fenoxaprop-p-ethyl 7.77%+ Metribuzin 13.6% EC	M/s Bayer Crop Science Ltd, Mumbai
11.	Fluxapyroxad 62.5% g/L + Epoxyconazole 62.5% g/L EC	M/s BASF India Ltd., Mumbai
12.	Fomesafen 11.1% w/w + Fluazifop-p-butyl 11.1% w/w SL	M/s Syngenta India Ltd., Pune
13.	Hexazinone 13.2% + Diuron 46.8% WP(FI)	M/s EI Dupont India Pvt. Ltd., Gurgaon
14.	Imazamox 35% + Imazethapyr 35% WG(FI)	M/s BASF India Ltd., Mumbai
15.	Imazethapyr 2%+Pendimethalin 30%EC	M/s. BASF India Ltd. Mumbai
16.	Indaziflam 1.65% + Glyphosate-Isopropyl ammonium 44.63% SC (FI)	M/s Bayer Crop Science Ltd., Thane
17.	Metsulfuron Methyl 10% + carfentrazone ethyl 40% DF	M/s E. I. DuPont India Pvt. Ltd. Gurgaon
18.	Mesosulfuron-methyl 3% + Idosulfuron-methyl sodium 0.6% WG (FI)	M/s Bayer Crop Science Ltd
19.	Metsulfuron Methyl 10% + Chlorimuron Ethyl 10% WP	M/s E.I. Dupont India Ltd., Gurgaon.
20.	Metribuzin 42% + Clodinafop propargyl 12% + WG	M/s United Phosphorus Ltd.
21.	Oxyfluorfen 2.5% + Isopropyl amine salt of Glyphosate 41% SC	M/s. ADAMA India Pvt. Ltd.,
22.	Penoxsulam 0.97% w/w + Butachlor 38.87% w/w SE	M/s Dow Agroscience India pvt ltd., Mumbai
23.	Penoxsulam 1.02% + Cyhalofop butyl 5.1 % OD	M/s Dow Agroscience India pvt ltd., Mumbai
24.	Pretilachlor 6% + Pyrazosulfuron ethyl 0.15% GR	M/s United Phosphorus Ltd.,
25.	Pretilachlor 30.0% + Pyrazosulfuron ethyl 0.75%WG	M/s United Phosphorus Ltd.,
26.	Propaquizafop 5% + Oxyfluorfen 12% EC	M/s. Adama India Pvt. Ltd.,

27.	Propaquizafop 2.5% + Imazethayper 3.75% w/w ME	M/s ADAMA India Pvt. Ltd., Hyderabad
28.	Sodium Acefloufen 16.5% + Clodinafop-propargyl 8% EC (FI)	M/s United Phosphorus Ltd.,
29.	Sulfentrazone 28.0% + Clomazone 30.0% w/w WP	FMC India Pvt. Ltd.
30.	Sulfosulfuron 75% + Metsulfuron 5% WDG	M/s United Phosphorus Ltd.,
31.	Mesotrione 2.27% w/w + Atrazine 22.7% w/w SC	M/s Syngenta India Ltd.
32.	Pendimethalin 35% + Metribuzin 3.5% w/w SE	M/s GSP Crop Science P. Ltd.
33.	Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC	M/s UPL Ltd
34.	Penoxsulam 1% + Pendimethalin 24% SE	M/s Rallis India Ltd
35.	Bispyribac Sodium 20% + Pyrazosulfuron Ethyl 15% WDG	M/s Coromandel International Ltd. Mumbai
36.	Fomesafen 12% + Quizalofop ethyl 3% SC	M/s Crystal Crop Protection Pvt. Ltd.
37.	Pyriftalid 31.0% + Bensulfuron methyl 15.7% SC	M/s Syngenta India Ltd.
D. INSECTICIDE + FUNGICIDE		
1.	Flubendiamide 3.5% + Hexaconzole 5% WG	M/s Rallis India Ltd.,
2.	Imidacloprid 18.5% + Hexaconzole 1.5% FS	M/s Rallis India Ltd.,

Total Formulation Registered:792

SOURCE OF IMPORT AND LIST OF INDIGENOUS MANUFACTURERS OF INSECTICIDES:**As on 01.07.2021**

Sl. No.	Common Name	IUPAC name (Serial number in Schedule)	Approved Source for Import (M/s)	Indigenous manufacturers (M/s)
1.	2.	3.	4.	5.
1.	2,4-D Ethyl Ester Technical 97% min.	45	---	1. Insecticides India Ltd, Delhi 2. Swati Chlorides Pvt Ltd, Vadodara 3. Ambey Laboratories Pvt Ltd, New Delhi 4. Crystal Phosphates, Delhi. 5. Atul Ltd., Valsad 6. Bharat Rasayan Ltd., Delhi 7. Megmani Organics Ltd., Ahmedabad
2.	2,4-D Sodium Salt Technical 94.5% min. 80% min Dichlorophenoxy acitic acid	45	---	1. Insecticides India Ltd, Delhi 2. Atul Ltd., Valsad 3. Megmani Organics Ltd., Ahmedabad 4. Bharat Rasayan Ltd. Delhi (80%) 5. Excel Phosphate Pvt. Ltd. Delhi 94.5% min u/s 9 (4). 6. AgroAllied Venture Pvt. Ltd. 94.5% min u/s 9 (4). 7. Bhanshidhar Chemicals, 94.0% min u/s 9 (4). 8. Bhaskar Agrochemicals Ltd., Hyderabad, 97.0% min u/s 9(4).
3.	Abamectin Technical 90.0% min 95% w/w min*	526	1. M/s. Syngenta Crop Protection, USA. Without any validity 90.0% min (by M/s Syngenta India Ltd., Pune in 369th RC) 2. *Hebei Veyong Bio Chemicals Co Ltd. East Heping Road, Shijiazhuang City, Hebei, Province China valid upto 23.12.2020 (by M/s CrystalCrop)	

			Protection Pvt. Ltd., Delhi in 371/372nd RC)	
4.	Abamectin 1.9% w/wEC	526	Syngenta Crop Protection AG Switzerland (by M/s Syngenta India Ltd., Pune in 369th RC)	
5.	Acephate Technical 97% min, 99% min.,	272	<ol style="list-style-type: none"> 1. Chevron Chemical International Inc.,USA. 2. Zing Hung Fine Chemical, SouthKorea 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. M/s Hubei Sanonda Co. Ltd. 93, East Beijing Road Jiangzhou, Hubei, China – 434001. valid upto 07.02.2017 97.0% min/by M/S ADAMA India Pvt. Ltd., in 366thRC) 7. M/s Nantong Weilike Chemical Co., Ltd., Yangkou Chemistry Industrial Park, Rudonk Country, JiangsuProvince, 226407, China.Through Supplier:M/sWillowood(Hangzhou) Co.Ltd.,RoomNo. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province China. Valid upto 18.12.2019 (By- M/s WillowoodChemicals Pvt.Ltd.,Kolkata,97%min.in390thRC -TI vsTIM) 8. M/s Jiangsu Lanfeng Biochemical Co. Ltd.Suhua Road, Xinyi 	<ol style="list-style-type: none"> 1. Shaw Wallace,Chennai 2. Cheminova India Ltd.,Mumbai 3. United Phosphorus Ltd.,Mumbai 4. Hindustan Insecticides Ltd., New Delhi 5. Heranba Industries Ltd,Mumbai 6. Punjab Chemicals & Crop Protection Ltd 7. Insecticides IndiaLtd 8. Hemani Industries Ltd 9. Shivalik RasyanLimited, New Delhi 10. India Pesticides Limited,Bareilly 11. Sabero Organics GujaratLtd. 12. Hyderabad Chemical ProductsLtd. 13. GHARDA ChemicalsLtd. 14. Megmani Organics Ltd., Ahmedabad 15. Sudarshan ChemicalIndustries Ltd.,Pune 16. Bayer CropScience 17. HPM Chemicals & FertilizersLtd., 18. Best Crop Science LLP, Gajraula, UP 19. Jai Shree Rasayan Udyog Ltd. 97.0% min, 9(4) 20. Oriyo Organics Pvt. Ltd., Yamunanagar; 97.0% min,9(4) 21. Agrisol (I) Pvt. Ltd .97.0% min, 9(4) 22. Spectrum Ethers Ltd. 97.0% min, 9(4) 23. M/s UPL limited Mumbai, 99.0% min, 9(3), in 403rdRC. 25. M/s Ichiban Crop Science Ltd. u/s 9(4) in 421st RC

			Economic & Technology Development Zone, Jiangsu, China through supplier M/s Jiangsu Lanfeng Biochemical Co. Ltd. Suhua Road, Xinyi Economic & Technology Development Zone, Jiangsu, China (by M/s Krishi Rasayan Exports Pvt. Ltd. in 417th RC)	
6.	Acetamiprid Technical 99% w/w min.	598	<p>1. Zhejiang Hisun Chemical Co. Ltd., No. 97, Waisa road, Jiaojiang, Taizhou, Zhejiang, China Supplier – Willowood Ltd., Hong Kong (By M/s Willowood Agro Chem Pvt. Ltd. in 244th RC)</p> <p>2. M/s Sanonda Zhengzhou pesticides Co. Ltd. Factory address 57, south City road, Zhengzhou, Henan, China through Supplier - M/s. Agro Dragon Co. Ltd, Rm. 822, East Building No. 1500, Century Avenue, Pudong New Area, Shanghai- 200122, China (By M/s Mahamaya Life Science in 269th RC) Source name Change to M/s. Zhengzhou Labor Agrochemicals Co. Ltd.,</p> <p>3. M/s Hebei Yetian Agrochemical co. ltd. Industrial Zone, South of Yuanshi country, Shijianzhuang,</p>	<p>1. Rallis India Limited, Bangalore/s 238th RC</p> <p>2. Gharda Chemicals, Mumbai, u/s 238th RC</p> <p>3. Punjab Chemicals & Crop Protection Ltd.</p> <p>4. Crystal Phosphates Ltd.</p> <p>5. Tagros Chemicals India Limited, Chennai</p> <p>6. Atul Limited, Vapi</p> <p>7. Hyderabad Chemicals Products Limited, Hyderabad</p> <p>8. GSP Crop Science Private Limited, Ahmedabad</p> <p>9. Astec Chemicals Private Ltd., Mumbai</p> <p>10. Rotam India Limited, Mumbai</p> <p>11. Salvi Chemical Industries, Mumbai</p> <p>12. Parijat Agencies, Delhi</p> <p>13. D Orgochem Limited, Mumbai</p> <p>14. Pharmaceutical Ltd, Chandigarh</p> <p>15. Insecticide India Ltd, Delhi</p> <p>16. Spectrum Ethers Limited, Rasegon, MS</p> <p>17. Bharat Rasayan Limited, New Delhi.</p> <p>18. Sabero Organics Gujarat Limited</p> <p>19. India Pesticide Ltd</p>

			<p>China. Through Supplier: M/s Hebei Bestar Commerce and Trade Co. Ltd., 6-3-203 no. 66 Dianda Street Xinhua District, Shijianzhuang, China. Valid upto 28.11.2022(By- CrystalCropProtectionPvt. Ltd. In 393rd RC, 99%w/wmin) 25.</p> <p>4. M/s Hengshui Northern & Chemical Co. Ltd., Xiaozhang Industrial Zone, Zaoqiang Country, Hebei Province, P. R. China and through supplier M/s Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (by-M/s Willowood Chemical Pvt. Ltd. in 421st RC)</p> <p>5. M/s Qingdao KYX Chemicals Co. Ltd., Guhe Industry Zone Shui Laxi City, Qingdao, China (approved by M/s Indogulf Crop Sciences Ltd. in 427th RC)</p>	<p>20. Heramba Industries Ltd., Mumbai</p> <p>21. Megmani Organics Ltd., Ahmedabad</p> <p>22. Sudarshan Chemical Industries Ltd., Pune</p> <p>23. Bhagiradha Chemicals & Industries Ltd.</p> <p>24. HPM Chemicals & Fertilizers Ltd., M/s Crimsun Organics Pvt. Ltd., 99%w/w min. 9(4), in 404th RC</p>
7.	Afidopyropen 50 g/l DC (FI-WRT)	860	<p>M/s BASF Agri Production S.A.S, Zone Industrielle Lyon Nord, Rue jacquard, 69727 Genay, France, there is no date of expiration in the authorization letter in France. (By-M/s BASF India Ltd. Mumbai in 388th RC)</p>	

8.	Allethrin Technical 90% min. Allethrin Tech. containing d-Allethrin 90% w/w min.	3	<ol style="list-style-type: none"> Sumitomo Chemical Co. 15,5-Chome, Aitahama, Higashi-ku Osaka, Japan Hoechst Schering Agr. Evo SA Paris, France 	<ol style="list-style-type: none"> Sumitomo Chemical India Ltd., Mumbai. Shogun Organics Ltd., Mumbai Manakshia Ltd., Mumbai
9.	<ol style="list-style-type: none"> Alphacypermethrin Technical 95% min. Long Lasting Nets Impregnated with Alphacypermethrin 0.667% w/w for import* 	416	<ol style="list-style-type: none"> Cynamid Quimica do Brasil Ltd., Resendez, Brazil (By Acco Industries (P) Ltd in 177th RC) * M/s Sunshine World Net 2003 Co.Ltd., 18/2 Moo 7, Rattana Tibet Road, Bangkrasor Muang Nonthaburi, 11000, Thailand. (by M/s BASF India Ltd. Mumbai, in 365th RC) 	<ol style="list-style-type: none"> Gharda Chemicals Ltd., Mumbai. u/s 9 (3) in 127th RC (technical) BASF India Ltd., Mumbai u/s 9(4) in 174th RC Coromandel International Ltd., Secunderabad Rotam India Limited, Mumbai Gujarat Agrochem Limited, Mumbai Insecticide India Limited Punjab Chemicals & Crop Protection Ltd Hemani Industries Ltd., Ankleshwar Heramba Industries Ltd Megmani Organics Ltd., Ahmedabad Bharat Rasayan Ltd., Delhi Tagros Chemicals India Ltd., Chennai HPM Chemicals & Fertilizers Ltd., Jai Shree Rasayan Udyog Ltd. 95.0% min, 9(4)
10.	Alpha naphthyl Acetic Acid 98% min.	264	Universal Crop Protection Ltd., UK	-
11.	Aluminium phosphide 56% min. and 77.5% Gr.	4	Insitu	<ol style="list-style-type: none"> Excel Crop Care Ltd., Mumbai Agrosynth Chemicals Ltd., Bangalore Sandhya Organic Chemicals Ltd., Mumbai United Phosphorus Ltd., Mumbai, u/s

				9 (3) in 309 th RC 77.5%Gr
12.	Ametoctradin Technical 98% w/w min	795	BASF SE,D-67056 Ludwigshafen, Germany (by M/s BASF India Ltd., Mumbai in 375 th RC)	
13.	Ametroctradin 27% + Dimethomorph 20.27% SCFI	795 462	1. BASF Espanola S.L, Ctra. Nacional, 340 Km 1156, 43006 Tarragona, Spain. (by M/s BASF India Ltd., Mumbai in 342 nd RC)	
14.	Ametryn 80% WG (FI-WRT), *95% min.	385	Adama Agan Ltd., P.O.B. 262, Northern Industrial Zone, ASHDOD, Israel (By ADAMA India Pvt. Ltd., Hyderabad in 359 th RC)	1. M/s Meghmani Industries Ltd. u/s 9(3) in 426 th RC meeting for 95% min.*
15.	Anilophos Technical 93% min.	383	Bayer Crop Science AG, Germany. Source change to M/s Bayer AG, Germany, (By M/s Bayer Crop Science Ltd.- 93% in 392 nd RC).	1. Bayer Crop Science Ltd., Mumbai. 2. Gharda Chemicals Ltd., Mumbai. 3. Hyderabad Chemical Pvt Limited.
16.	Atrazine Technical 80%, 95% min*, 97% min. (418)	140	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: M/s. Hebei Bestar Commerce and Trade Co. Ltd., 6-3-203 No. 66 Dianda Street, Sinhua District, Shijiazhuang,	1. Rallis India Ltd., Bangalore 2. Pesticides India, Udaipur 3. Nagarjuna Agrichem, Hyderabad 4. GSP Crop Science Pvt. Ltd. Ahmedabad 5. Insecticide India Ltd 6. Megmani Industries Ltd.* 7. Best Crop Science LLP, Gajraula, UP 8. Maheshwari Biochemicals Pvt. Ltd., 95.0% min, 9(4). 9. HPM Chemicals & Fertilizers Ltd., 95.0% min, 9(4).

			China (By M/s Crystal Crop protection Pvt. Ltd in 345 th RC) 7. Shandong Qiaochang Chemical Co. Ltd., South of Xinyongshen Road, Binbei, Bincheng District, Binzhou City, Shandong, China Valid upto 06 th Aug. 2018 98.0% min (by M/s Krishi Rasayan Export Pvt. Ltd. in 360 th RC) 8. M/s Shandong Dehao Chemical Co. Ltd., Lingang Chemical Park, Binhai Economic, Weifang, China through supplier M/s- Willowood (Hangzhou) Co. Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (by M/s Willowood Chemicals Pvt Ltd in 418 th RC)	
17.	Aureofungin,	141		
18.	Azoxystrobin Technical 97% min, 95% min, 96% min, 98.0% min 96.5% w/w min.* 93.0% w/w **	601	1. Shangyu Nutrichem Co. Ltd. No. 9, Wejin Rd., Hangzhou Bay Shangyu Industrial Area, Zhejiang 312 369, China through Supplier M/s Nutrichem Company Ltd., building D01, No 66 XIXAOKOU road, Haidian dist. Beijing China Valid upto 22.04.2018 (by M/S Dhanuka Agritech. Ltd. 98.0% w/w Min, in 367 th RC New Source). 2. Ziangsu Pesticides Research Institute Co. Ltd., No. 269, Changfenghe Road, Nanjing	1. UPL Limited, Mumbai, 95.0 % w/w Min, TIM vs TI 9(3) in 360 th RC 2. Coromandel International Ltd., Secunderabad, 97.0 % Min, TIM vs TI u/s 9(3) in 371/372 nd RC 3. G.S.P. Crop Sciences Pvt. Ltd 95.0 % w/s. Min, TIM vs TI 9(3) in 362 nd RC 4. Cheminova India Ltd., Mumbai, u/s 9(3), 95.0% w/w Min, TIM in 366 th RC 5. Parijat Industries (India) Pvt. Ltd. New Delhi, u/s 9(3), 96.0 % w/w Min, TIM

			<p>Chemical Industry Park, Luhe Dist.Nanjing China through Supplier: Pioneer Fortune International Ltd., Room 1318-20, 13/F HollywoodPlaza,610NathanRoadMonglok Kowloon,HongKongvalidupto28.05.2018 (By M/s Crystal Crop Protection Pvt. Ltd., Delhi, 98.0 % w/w Min, in 367th RC New Source).</p> <p>3.*M/s ADAMA Makhteshim Ltd. (Formerly known as Makhteshim ChemicalsWork Ltd.) P.O. Box 60 Industrial Zone Beer Sheva, 84400, Isreal. 96.5 % Min (By M/s ADAMA Makhteshim Ltd. Hyd. In 366th RC)</p> <p>4.** Syngenta Ltd, Grangemouth, Mfg. Center, United Kingdom valid upto 31.12.2021 (By M/s Syngenta Crop Protection Pvt. Ltd in 354thRC purity 93.0 %w/w min)</p> <p>5. M/s Shanghai Heben East sun Medicaments Co. Ltd., South of Tinglin Industrial Park, Jinshan, Shanghai, China through supplier M/s- F. J. Agrochemicals Co.Ltd., Rm 281, No. 500, Zhangyang Road, Pudong District, Shanghai, China (by M/s Krishi Rasayan Exports Pvt.Ltd. In 417th RC)</p> <p>6.M/s Shandong Hailir Chemicals Co. Ltd., Lingang Industrial zone, CoastalEcon,</p>	<p>in389thRC</p> <p>6. Bhagiradha Chemicals &Industries Ltd., [purity 95% min.u/s 9(4)]</p> <p>7. M/s Insecticides India Ltd., 95% w/w min. under section 9(4) TIM. in 395thRC</p> <p>8. M/s Gharda Chemicals Ltd., 96% min. 9(4), in405thRC.</p> <p>9. M/s Meghmani Industries Ltd. u/s 9(4) in 421st RC</p> <p>10. M/s Bhagiradha Chemicals & Industries Ltd. approved in 425th RC, 95% w/w min.</p>
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			Development Zone, Weifang, Shandong, China (by M/s Indogulf Cropscience Ltd., approved in 424 th RC 97% min.)	
19.	1. Azoxystrobin Technical & 23% SC (FI-WRT) 3. Azoxystrobin 11.0 + Tebuconazole 18.3% w/w SC* (FI-WRT of Azoxystrobin) 3. Azoxystrobin 7.1% + Propiconazole 11.9% w/w SE**	601	1. Syngenta Ltd, Grangemouth ,Mfg. Center, United Kingdom (By Syngenta Crop protection in 258 th RC) 2. *M/s Makhteshim Chemical Works Limited , P.O Box No. 60, Industrial Zone, Beer Sheva, 84100, Israel (By M/s Makhteshim Agan India Pvt. Ltd , Hyd in 347 th RC) 3. **M/s. Adama Makhteshim Ltd, PO Box 60, Industrial zone, Beer Sheva, 84100, Israel Through Supplier M/s Adama Celsius BV Curacao Branch, Pos Cabai Office Park Unit 13, P.O.Box-403, Curacao (By M/s Makhteshim Agan India Pvt. Ltd., Hyderabad in 366 th RC)	
20.	Azimsulfuron 50% DF (FI-WRT)]	742	DuPont de Nemours (France) S.A.S.82, Cerney Cedex France through Du Pont International Operations, Geneva, Switzerland (by M/s E.I DuPont India Pvt. Ltd , Gurugram in 329 th RC)	
21.	Amisulbrom 17.7 %(w/w) FI-WRT	818	M/s- Nissan Chemical Industries Ltd., Kowa Hitotsubashi Building, 7-1, 3-Chome Kanda- Nishiki Cho, Chiyoda-Ku, Tokyo - 101-0054, Japan and supplier M/s- Nissei Corporation, 10-5 Nihonbashi-Honcho, 1-Chome, Chuo-Ku, Tokyo 103- 0023, Japan. (by M/s Dhanuka Agritech Ltd , Gurugram , 417RC)	-

22.	Barium Carbonate	8	To be informed.	
23.	Benalaxyl Technical 92.0 % w/w Min			M/s F.M.C. India ltd, Bangalore under section 9 (3) in 386 th RC
24.	Bendiocarb Technical 96% min.	355	BayerCropScience,USA(By Bayer berop Science IndiaLtd., Mumbai in 256 th RC)	
25.	Benfuracarb Technical 96% min.	413	Otsuka Chemical Co japan (bt M/s EID Perry in 240RC)	M/s Coromandel International Ltd., Secunderabad
26.	Bensulfuron Methyl Technical 96% min, 97% min.	444	1. E.I DuPont Agricultural Chemicals Ltd., Shangai, P.R. China through supplier DuPont Company Singapore Pvt. Ltd., Singapore. (96.0% min. (By E.I. Dupont India Ltd. in 289 th RC) 2. M/s Shijiazhuang Richem Co. Ltd. No. 148, Yuhua Road, Chang An District, Shijiazhuang, China through Supplier – Do- (validity- upto 30 July 2022), (by M/s Crystal Crop Protection Pvt. Ltd.,Delhi, 96% min. in 388 th RC) 3. M/s Jiangsu Repond Agrochemical Co. Ltd China (by M/s Syngenta India Ltd, approved in 424 th RC 97% min.)	
27.	Bensulfuron Methyl 60% DF FI	444	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 (By E.I. Dupont India Ltd. in 282 nd RC)	
28.	Bentazone 480 gm/l SL, (FI-WRT)	142	1. BASF SE, Carl-Bosch-Strausse 38, 67056 Ludwigsfen, Germany (regd by M/s.BASF India in 362 nd RC)	

29.	Bentazone 96% w/w min. Technical	145	M/s BASF SE, Carl-Bosch-Strasse 38, 67056 Ludwigshafen, Germany (By M/s BASF India Pvt. Ltd., 96% min. in 392 nd RC)	
30.	Benomyl Technical 95% min.	150	1. M/s E.I. DuPont de Nemours Co., Inc. USA 2. Taicang Pesticide Factory, Jiangsu, China. Through Supplier M/s Jiangsu Jiatai Chemical company Ltd., Nanning, China	
31.	Beta-cyfluthrin Technical 96.5% min	561	1. Mitchell Cotts Chemicals Ltd., P.O. Box No. 6, Mir field, West Yorkshire INF148QB, United Kingdom Bayer Crop Science AG, Germany., (By M/s Bayer India Ltd in 223 rd RC) Source Change to Ltd. 96.5% in 392 nd RC)	1. M/s Bilag Industries Pvt. Ltd (U/s 9(3) 96.5% min . in 339 th RC) (M/s Bayer AG, Germany), (By M/s Bayer Crop Science)
32.	Benthiocarb Technical 93% min. (Thiobencarb)	331	Kumiai Chemical Industries Co. Ltd., Japan	
33.	Benzpyrimoxam technical 93.7% min			1. M/s Nichino Chemical India Pvt. Ltd. u/s 9(3) approved in 427 th RC
34.	1. Bifenazate 50% WP 2. Bifenazate 22.6% SC	651	Chemtura USA Corporation, 364 Fitzgerald Highway, Ocilla, GA 31774 – USA (By Chemtura Chemicals India Pvt. Ltd, Mumbai in 321 st RC 22.6% SC) M/s UPL NA Inc, 630 Freedom Business Center, Suite 402, King of Prussia, PA, USA 19406 changed from M/s Chemtura Company Inc Boid Corporation, 364 Fitzgerald Highway, Ocilla, GA 31774, USA (approved by M/s Arysta Life Science India Ltd. in 426 th RC meeting for 22.6% SC)	

35.	Bifenthrin Technical, 92% w/w min., 95% min, 96% min, 23.4% MUP * and 8% SC,**	445	<ol style="list-style-type: none"> 1. FMC Corporation, 1735, Market Street, Philadelphia, PA 19103, USA (By FMC India Pvt. Ltd in 240thRC) 2. *FMCAsiaPacific1800Zhongohan xiLu, Shangai 200235, China 23.4%MUP * (By FMC India Pvt. Ltd in 297thRC) 3. Nihon Nohyaku Co. Ltd.,Tokyo,Japan 4. JiangsuChanglongAgrochemicalsCo.Ltd., China through Supplier M/s Willowood (Hangzhou) Co' Ltd. Room No. 2003, Golden Plaza, No. 118, Qingchun Road. XiachengDistrict, HangzhouCity Zhejiang Province, China. Valid upto 14.11.2018, 95.0% min (by M/s Willowood Chemicals Ltd. in 362ndRC) 5. **FMC Corporation, Agricultural Products Group, 1735, Market Street, Philadelphia, PA, USA, 8% SC, (By FMC India Pvt. Ltd in 312ndRC) 6. M/s Shandong United Pesticide Industry Co. Ltd., Building #1, Middle Shengli Road, Daxin Village, Fan Town, Daiyue District, Taian City, Shandong, P. R. China and supplied by M/s Shandong Sino-Agri United Biotechnology Co. Ltd., No.28, Sangyuan Road, Jinan City, China (by Agro Pack, approved in 424th RC 96% min.) 	<ol style="list-style-type: none"> 1. United Phosphorous Ltd, Vapi U/s 9 (3) in 266thRC 2. Insecticides India Ltd, Delhi 3. GSPCropSciencePvtLtd, Ahmedabad. 4. Bharat Rasayan Ltd., Delhi 5. HPM Chemicals & Fertilizers Ltd., 6. Meghmani Industries Ltd, Ahmedabad 7. BestCropScienceLLP, Gajraula, UP 8. ShagunOrganicsLtd. Mumbai, 92.0 Min.9(4) 9. AgricoOrganicLtd. 92.0 Min9(4) 10. JaiShreeRasayanUdyogLtd., New Delhi, 92.0 Min9(4) 11. M/s Agrow Allied Ventures Pvt.Ltd., in 393rd RC, 92.0% Min.9(4) 12. M/s IchibanCropScienceLtd., 92% Min., 9(4), in 405thRC.
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36.	Bispyribac- sodium 10% SC (FI-WRT)	707	Kumaiai Chemical Industry co. Ltd., 4-26, Ikenohata 1-chome, Taitoh-Tokyo, Japan (By PI Industries Ltd, Gurgram in 29 th RC)	
37.	Bispyribac- sodium Technical 95% min, 96% min*	707	1. *M/s Jiangsu Flag Chemical Industry Co. Ltd., Chengfenge Road, nanjing Chemical Industry Park, Luhe, Nanjing, China 210047 (approved by M/s Parijat Industries (India) Pvt. Ltd. in 426 th RC meeting)	2. GhardaChemicalsLtd. U/s 9(3) 95.0% min in 365 th RC 3. InsecticidesIndiaLtd.U/s9(3) 95.0% min in 365 th RC 4. Godrej Agrovet Ltd. U/s9(3) 4. 95.0% min in 368 th RCExcel Crop Care Ltd. U/s 9(3) 95.0% min in 371/372 th RC 5. M/s ADAMA India Pvt. Ltd. Hyderabad, U/s 9(3) 95.0% min in 371/372 th RC 6. M/s Indofil Industires Ltd., Mumbai, 95% min. 9(3), in 386 th RC. 7. M/s PI Industries ltd, Udaipur 95% min. 9(3), in 399 th RC. 8. M/s Coromandel International Ltd., 95% min., 9(4) in 386 th RC. 9. M/s Best Crop Science LLP, 95% min., 9(4) in 386 th RC. 10. M/s Punjab Chemicals and Crop Protection Ltd., 95% min., 9(4), in 395 th RC 11. M/s Croponsys India Pvt. Ltd., 95% w/w min., 9(4), in 407 th RC
38.	Bitertanol Technical 95% min.	375	1. Mfd. By M/s. Makhteshim Chemical Works Ltd., P.O.Box 60, Beer Sheva-84100, Israel for M/s Bayer Crop Science AG, Germany., Source change to M/s Bayer	

			AG,Germany,(ByM/sBayerCrop Science Ltd. 95% in 392 nd RC)	
39.	Boscalid 25.2% + Pyraclostrobin 12.8 % WG (FI-WRT)	736 659	BASF Corporation Sparks plant, 14284, highway 41 North, Sparks Georgia 31647, USA(ByM/sBASFIndiaLtd.,Mumbai 363 rd RC)	
40.	Bromadiolone Technical 93.5%min.	358	Lipha Pharmaceuticals, France.	1. Rotam India Ltd,Mumbai 2. SudarshanChemicalIndustryLtd. Pune 3. RallisIndiaLtd 4. M/S Fytocare Chemicals Pvt. Ltd. 5..UltimaSearch,Gurgaon,93.5%min.9 (4)
41.	Buprimate 26.7 % w/w EC (FI-WRT)	563	M/sADAMAMakhteshimLtd(FormerlyKnown as Makhteshim Chemical Works Ltd) PO Box No.60IndustrialZoneBeerSheva,84100,Israel(By m/sADAMAIndiaPvt.Ltdin379 th /380 th RC)	
42.	Buprofezin Technical 98% min.	446	1. Nihan Nohyaku Co. Ltd.Tokyo,Japan. 2. Nanjing Suyan Kechuang Agrochemical Co. Ltd., Xiangji, Tongshan, Jiangning, District, Nanjing,Jiangsu,China 3. Jiangsu Sevencontinent Green Chemical Co. Ltd. Add. No. 28, Chengbei Road, Zhangjiagang, Jiangsu-215600 (China) Through Supplier: M/sShenzhou Chemical(Shenzhen)Co.Ltd,China)valid upto 03.01.2018 (by M/s Krishi Rasayan	1. Coromandel International Ltd., Secunderabad, u/s 9 (3) in308 th RC 2. Hyderabad ChemicalProductsLtd. 3. HindustanInsecticidesLtd. 4. HPM Chemicals &FertilizersLtd., 5. Meghmani Industries Ltd, Ahmedabad 6. BestCropScienceLLP,Gajraula, UP, 98% min.,u/s9(4)

			<p>Exports Pvt. Ltd., New Delhi in 323rd RC)</p> <p>4. Nanjing Suyan Kechuang Agrochemicals Co. Ltd., Xiangji, Tongshan, Jiangning, District Nanjing, Jiangsu, China. through Supplier M/s Pioneer Fortune International Ltd., Hong Kong, China (By M/s Crystal Phosphates Ltd., Delhi in 286th RC)</p> <p>Change to M/s Jiangsu Pesticide Research Institute Co. Ltd. No. 269, Changfenghe Road, Nanjing Chemical Industry Park, Nanjing, Jiangsu Province, China. Through Supplier: Same as Manufacturer. (for grant of registration of 98% w/w min. w/s, (validity of the source 20.06.2021).</p> <p>5. M/s. Jiangsu Anpon Electrochemical Company Ltd., 30, Huagong Road, Huaian, Jiangsu, China-223002</p> <p>Through Supplier M/s. H.K. Heaven-Crop Int'l Chem Ltd., Flat D, 11/F, The Cairn Hill, Tsuen Wan, N.T. Hong Kong (By M/s Mahamaya Life Sciences Pvt Ltd, New Delhi in 348th RC)</p>	<p>7. M/s Agrico Organics Ltd., 98% min., 9(4), in 386th RC</p> <p>8. M/s Gujarat Insecticides, 98% min., 9(4), in 401st RC</p>
43.	Bacillus Species Thruingiensis Berliner var. Kurstaki Serotypes 3a, 3b, SA II WG	326	<p>1. Cetrus, USALLC</p> <p>2. Thermo Triology Corporation, USA</p>	Margo Biocontrols Pvt. Ltd.
44.	Butachlor Technical 85% min	248	<p>1. Monsanto Agricultural Products Co., USA through Supplier M/s Sinochem International (Overseas) Pte. Ltd., 9</p>	<p>1. Hindustan Insecticides Ltd., Delhi.</p> <p>2. Montari Industries Ltd., Delhi.</p> <p>3. Siris India Ltd., Hyderabad.</p>

<p>* Butachlor Technical 95% min.</p>		<p>Raffles Place, 50-01 Republic Plaza, Singapore -048619</p> <p>2. Shen Hong Chemical Corporation, Taiwan</p> <p>3. Shinung Corporation Taichung, Taiwan. Source change to M/s. SINON Corporation Taichung, Taiwan</p> <p>4. * M/s Nantong Jiangshan Agro Chemical & Chemicals Limited Liability Co., Add-998, Jiangshan Road, Nantong Economic & Technological Development Zone, Nantong, Jiangsu China through supplier M/s Sinochem International Corporation Add- 19/F, Jinmao Tower, No. 88, Century Boulevard, Pudong New Area, Shanghai 200121, P. R. China (by M/s Sinochem India Company Pvt. Ltd. (413th RC)</p> <p>5. * M/s Jiangsu Lulilai Co. Ltd., Add:- No. 2, Shugang Road, Xiangshui Eco-Chemical Industrial Park, Jiangsu Province, China through supplier M/s Chongqing Shining Fine Chemicals Co. Ltd., Add:- 28-3 Citic Commerce No. 5 Yanghe San Cun Jiangbei District Chongqing, China (approved by M/s Crystal Crop Protection Pvt. Ltd. In 428th RC)</p> <p>6. * M/s Sinochem International corporation, 19/F, Jinmao Tower, No. 88 Century Boulevard, Pudong New Area, Shanghai 200121, P R China changed to M/s Sinochem International Crop Care (Overseas) Pt. Ltd., 1 Raffles Place #59-00 One Raffles Place Singapore 048616 (approved by M/s Sinochem India Company Private Limited 428th RC)</p>	<p>4. Insecticides India Ltd.</p> <p>5. Jaishree Agro Industries Ltd, Delhi</p> <p>6. Hyderabad Chemical Products Ltd.</p> <p>7. Coromandel International Ltd., Secunderabad</p> <p>8. Bharat Rasayan Ltd., Delhi</p> <p>9. Sudarshan Chemical Industries Ltd., Pune</p>
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45.	Captan Technical 90% min.	248	<ol style="list-style-type: none"> 1. Chevron Chemical Co.,USA 2. Makhteshim Agan,Israel 3. Makhteshim Chemical Works Ltd., Beer 4. Sheva Israel. 	<ol style="list-style-type: none"> 1. Rallis India, Mumbai 2. IndiaPesticideLtd.,Lucknow 3. FILIndustriesLtd. 4. Punjab Chemicals & Crop Protection Ltd,Chandigarh.90.0%Min.9(4). 5. BonageriCropScienceLtd.Karnataka 90.0% Min.9(4).
46.	Carbendazim Technical 98% min.	148	<ol style="list-style-type: none"> 1. BASF, West Germany 2. Sinoway International (Jiangsu) Company Ltd., China 3. Jiangyin Rotam Chemical Co. Ltd., Jiangsu, China. 4. M/s Ningxia Wynca Technology Co. Ltd., Taisha Chemical Industry Park, Pingluo, Ningxia, China through Supplier: M/s Ningxia Wynca Technology Co. Ltd., Taisha industry Park, Pingluo, Ningxia, China valid upto13.05.2018 (by M/s Crystal Crop Care Protection Pvt. Ltd in 368th RC.) 5. Change of name of source of Import of Carbendazim Technical 98% w/w min. from M/s Kajo Agrochemical Co. Ltd., No.2, Qingtong Road Qingyang Town, JiangyinCity, Jiangsu China, to M/s Anhui Hauaxing Chemical Industry Co. Ltd., Wujing Town, Hexian County, Anhui, P R China (M/s Coromandel International Ltd. in 409th RC) 6. M/s Anhui Huaxing Chemical Industry Co., Ltd., Wujiang Town, Hexian CountryAnhui, China, PC 238251through supplier as M/s Bingo Technology Ltd, Add.- 5/F Hong Kong 	<ol style="list-style-type: none"> 1. BASF (I)Ltd.,Mumbai 2. Alchemic OrganicsLtd.,Mumbai 3. Artee Graphite PLtd.,Delhi 4. Atulltd.,Bulsar 5. Gujarat Insecticides Ltd, Ankleshwar 6. Hindustan AntibioticsLtd.,Pune 7. HyderabadChemicalProductsLtd., Hyderabad 8. New Chemie Industries Ltd, Mumbai 9. Paushak Ltd.,Baroda. 10. RotamIndiaLtd. 11. MegmaniIndustriesLtd. 12. GhardaChemicalsLtd 13. Sudarshan Chemical Industries Ltd.,Pune 14. Bayer Crop ScienceLtd., Mumbai.

			trade centre, 161- 167 Des Voeux road central, Hong Kong (by M/s NACL Industries Ltd. in 413 th RC) 7. M/s Jiangsu Lanfeng Biochemical Co. Ltd., Suhua Road, Xinyi Economic & Development Zone, Xinyi, Jiangsu, China (approved by M/s Krishi Rasayan Exports Pvt. Ltd. in 426 th RC meeting)	
47.	Carbofuran Technical 75% min & 90% min	163	1. FMCCorporation,USA 2. BraytonChemical,USA 3. AgrichemInc.,USA 4. Mobay ChemicalCorporation,USA 5. Lobel ChemicalCorporation,USA 6. MitsubishiChemicalIndustryCo.Ltd., Japan 7. Medimpex,Hungary. 8. M/s.JiangsuLanfengBiochemicalCo.Ltd., Regd.Office-SuhuaRoad,xinyiEconomicandTechnicalDevelopmentZone,Jiangsu, PRChina. Manufacturing Site at: M/s. Jiangsu Lanfeng Biochemical Co.Ltd., Shaxitown,Taicangcity,JiangsuProvince, China. (valid upto21.11.2023), 9. Human Research Institute of Chemical Industry, China. Source Change to M/s Hunan Haili Chemical Industry Co., Ltd., Address No. 251, 2nd Section, Furong Road (M), Changsa,Hunan,China.	1. Atul Ltd. Valsad. 2.Rallis India Ltd.
48.	Carbosulfan Technical	384	FMC Corporation, USA	

	92% min.			
49.	Carboxin Technical 98% min.	165	Shaanxi Hengtian Chemical Co., Ltd., No.- 48, Fengcheng 3 Road, XI' AN, China. Through Supplier: M/s Chongqing ShiningFineChemicalsCo.Ltd.,28-3Citie Commerce, No. 5 Yanghe San Cun, Jiangbei District, Chongqing China. (By Ms. Crystal Crop Protection Pvt. Ltd., in 352 nd RCmeeting.)undercategoryNew Source	
50.	Carboxin Technical 97% min.	165	1. CromptonCo./cieErbStreet, Elmira, Canada. ToChemturaCanadaCo./cie,Elm Street, Naugatuck, Ct 06770,Canada	1. M/s GSP Crop Science Pvt. Ltd , Ahmedabad , 97.0 %min u/s 9 (3) (TIM vs TI) in354 th RC 2. M/s Best Crop Science, 97% ,(4) in 386 th RC 3. M/s India Pesticides Ltd., 97% min. 9(4) in393 th RC 4. M/s UPL Ltd., Mumbai, 97%min. (4) in 395 th RC
51.	Carfentrazone ethyl Tech 90% min	627	FMC Corporation Agricultural Product Group, 1735 Market Street, Philadelphia, Pennsylvania PA 19103, USA(By FMC (India) Pvt. Ltd in 357 th RC)	
52.	1.Carfentrazone ethyl 40%DF, (F1)	627	1. FMC Corporation Agricultural Product Group, Philadelphia, PA 19103, USA (By FMC (India) Pvt. Ltd in 267 th RC)	
53.	Carpropamid Technical 95% min.	602	Bayer Crop Science AG, Germany., (By M/s Bayer Crop Sciences Ltd. Mumbai in 251 st RC) Source change to M/s Bayer	

			AG, Germany, (By M/s Bayer Crop Science Ltd. 95% in 392 nd RC.)	
54.	Cartap Hydrochloride Technical 98% min.*	339	<ol style="list-style-type: none"> Sumitomo Chemical company, Shinkawa 2 – chome, Chuo-ku, Tokyo, Japan (through Arysta Life Science Corpn, Japan) Sumito Chemicals. Jiangsu Tianrong Group Co. Ltd., No.1, Shugang road, Xiangashui Eco-Chemical Industrial Park, Jiangsu, China Through supplier: M/s Jiangsu Jiatai Chemical Co. Ltd., 17, Beijing Road (West), Nanjing, China, Anhui Huaxing Chemical Industry Co. Ltd. Wujiang Town, Hexian Country, Anhui Province, China. (By M/s Sudarshan Chemical Industries Ltd, Pune in 356thRC) Hunan Haohua Chemical Company Ltd., No. 18, Dingshan Road, Shifeng District, Zhuzhou City, Hunan, China, (valid upto 01/12/2023). (By M/s Adama india Pvt. Ltd., Hyd) and (By M/s Krishi Rasayan Export Pvt. Ltd., New Delhi in 357thRC) Yueyang Anda Chemicals Ltd., Room No. 613-617, Chuangye Centre, Baling Zhong Road, 	<ol style="list-style-type: none"> Atul India Ltd., Valsadu/s9(3) in 220thRC United Phosphorus Ltd., Mumbai. u/s9(3) in 220thRC GSP Crop Science Pvt. Ltd. Ahmedabad Bharat Rasayan Ltd., New Delhi EID Parry (India) Limited, Chennai Hyderabad Chemical Product Limited, Hyderabad HPM Chemicals & Fertilizers Ltd., Punjab Chemicals & Pharmaceuticals Limited, Chandigarh. Gharda Chemicals Ltd., Mumbai Meghmani Organics Ltd Coromandel International Ltd., Secundrabad Sudarshan Chemical Industries Ltd., Pune Excel Phosphorus Pvt. Ltd., 98% min. 9(4)

			Yueyang, Hunan, China, Through Supplier: M/s Beta Chemicals Ltd. Room No. 707, BLK, A. Kingsound Centre, No. 116, Zizhuyuan Road, haidian District, Beijing, China (regd. By M/s. Indofil IndustriesLtd.In355 th RC(ValidUpto 01/12/2023)	
55.	Clethodim 25% EC FI-WRT	698	M/s Arysta Life Science , North America LLC, 15401 Weston Parkway suite 150, cary, NC, 27513, USA (By Rallis India Ltd , 416RC)	
56.	Clodinafop-propargyl Technical 93% min (Piroxofop - Propinyl)	513	<ol style="list-style-type: none"> 1. Cheminova A/S, P. O. Box 9, DK-7620, Lemvig, Denmark, (By M/s Cheminova India Ltd in 294th RC) 2. Syngenta Grimsby Pyewipe, GB, Grimsby South Humber, UK 	<ol style="list-style-type: none"> 1. UnitedPhosphorusLimited,Gujarat u/s 9 (3) in 252ndRC 2. Atul Limited, Gujarat u/s 9 (3) in 256th RC 3. GhardaChemicalsLtd,Mumbaiu/s 9(3) in 261stRC 4. Bhagiradha Chemicals & Industries Ltd., Prakasham District(A.P.) 5. Excel Phosphate Pvt. Ltd., Delhi.93.0 %Min,9(4) 6. Hyderabad Chemical ProductsLtd. 7. Crystal phosphate Limited,Delhi 8. Rotam India Ltd,Mumbai 9. Ravi OrganicsLtd 10. Bharat RasayanLtd 12. Punjab Chemicals & Crop ProtectionLtd 13. Sharda Worldwide Exports Pvt Limited 14. MeghmaniIndustriesLimited 15. Modern InsecticidesLtd.,Ludhiana

				<p>16. ChemturaChemicalIndiaPvt.Ltd, NDelhi</p> <p>17. GSP Crop Science Pvt. Ltd. Ahmedabad</p> <p>18. InsecticidesIndiaLtd</p> <p>19. Sundew Life Science Pvt Ltd, Coimbatore.</p> <p>20. SaberoOrganicsGujaratLtd.</p> <p>21. Gharda Chemicals Ltd.</p> <p>22. HPM Chemicals & Fertilizers Ltd.</p> <p>23. M/s.Crystal Crop Protection Pvt. Ltd., N. Delhi</p> <p>24. Best Crop Science LLP,Gajraula, UP</p> <p>25. Agrico OrganicsLtd.,NewDelhi 93%min</p>
57.	Clodinafop-propargyl Technical 95% min (Piroxofop-Propinyl)	513	<p>1. Agan Chemical Manufacturers Ltd. P. O. B. 262, Ashdod, Israel (By M/s Makhteshim Agan India Pvt. Ltd in 348thRC)</p> <p>2. M/s Hangzhou Udragoan Chemical Co. LtdTangxi Industries Area 311106 Yuhang, Hangzhou , China through supplier Chongqing Shining Fine Chemicals co., Ltd., 28-3, Citic Commerce No. 5, Yanghe San Cun Jiangbei, District Chongqing,China (By M/s Crystal Crop Protection Pvt Ltd in 357thRC)</p> <p>3. M/s Yifan Biotechnology Group Co. Ltd., No. 555, Changan Road, Yaoxi Subdistrict, Longwan District, Wenzhou City, Zhejiang Province, China through supplier M/s Willowood (Hangzhou) Co. Ltd., Room No. 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou</p>	

			City, Zhejiang Province, China. (approved by M/s Willowood Chemicals Pvt. Ltd. in 428 th RC)	
58.	Clomazone Technical .90%	419	FMCCorporation,Phildelphia,USA (By Rallis India ltd, Banalore)	M/s UPL Ltd. approved in 425 th RC
59.	Chlorpropham technical 98% w/w min	23	1. United Phosphorus Limited, Chadwick House, Birchwood Park, Warriton, WA 36AE, UK (By M/s UPLtd. Mumbai) 2. B.V Industrie –en-Handel Sonderneming Simonis, Post Box No. 620-7000 AP, Doetinchem, Holland (by M/s Rajhans Fertilizers Ltd., Indore in 370 th RC)	M/s UPL Ltd. Mumbai , u/s 9(3) , 98.0% w/w Min. in 398 th RC (TIM vsTI)
60.	Chlorantraniliprole tech 93% min *Chlorantraniliprole 35% WG	764	1. M/s. DuPont Asturias S.L. Valle de Tamon Nubledo 33469 Taman-Carreno Asturias, Spain through Supplier M/s. Dupont International Operations Sarl Chemin du Pavillion, Geneva, Switzerland.(ByM/sE.I. Dupont India Pvt. Ltd in 292 nd 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 M/s FMC Corporation, Mobile ManufacturingCentre, 12650, Highway43, P.O. Box 565, Axis Alabama 36505-0565, USA (Endorsement by M/s Syngenta India Ltd. in 404 th RC) through supplier: M/s DuPont International Operations Sarl, 2 Chemin du Pavillon, 1218 Le grand Saconnex, Geneva, Switzerland.	1. M/s Natco Pharma Ltd. approved in 425 th RC 2. M/s Best Crop Science LLP approved in 425 th RC

			<p>3. Dupont Agricultural Chemicals Through Supplier: M/s Dupont Company (Singapore) Pte. Ltd., 1 Harbour Front Place# 11-01, Harbour Front Tower One, Singapore 098633</p> <p>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 (approved by M/s FMC India Pvt. Ltd. in 426th RC meeting)</p>	<p>Ltd., Jinshan, Plant No. 39, Shungong Road, Shanghai Chemical Industry Park, Shanghai 201507, PRChina</p>
2.	Chlorfenapyr 10% SC (FI)	564	<p>Jiangsu Rotam Chemistry Co. Ltd. No. 88, Rotam Road, Ketd, Kunshan City, Jiangsu Province, China (By M/s BASF India Ltd in 250th RC)</p>	
3.	Chlorfenapyr Technical 94% w/w min.	564	<p>1. M/s BASF Corporation, Hannibal Plant, 3150 Highway JJ Palmyra, Missouri 63461 United States of America (by M/s BASF India Ltd in 423rd RC)</p>	
4.	Chlorimuron ethyl Technical 95% min.	448	<p>1. Du Pont Agricultural Caribe Industries Ltd., Box 30,000, State Road, HWY, 686 Km.2.3 Manati Puerto Rico – 00701, USA</p> <p>2. Dalian Raiser Pesticides Co. Ltd., No. 101, Xinyao Jinzhou Dalian Liaoning, China (by M/s Crystal Crop Protection Pvt. Ltd. 95.0% Min in 362nd RC TI vs TIM)</p>	<p>1. Atul Limited, Valsad, Gujarat, u/s 9(3) in 263rd RC</p> <p>2. Jai Shree Rasayan Udyog Ltd., Delhi, 95% min., 9(4)</p> <p>3. Ambey Labs Pvt. Ltd., New Delhi 95.0 % min, 9 (4)</p> <p>4. M/s UPL Ltd., 95.0 % min, 9(4), In 386th RC.</p> <p>5. M/s Best Crop Science LLP, 95% min. 9(4), in 389th RC</p>
5.	Chlormequate Chloride Technical 97% min.	170	<p>BASF, West Germany (by BASF India Ltd., Mumbai.)</p>	

6.	Chlorothalonil Technical 96% min. [Tetrachloroisophthalonitrile (Chemical name)]	336	<ol style="list-style-type: none"> 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 Jitai Chemical Co.Ltd., Nanjiang, China 4. M/s Jiangyin Suli Chemical Co., Ltd No.7RunhuaRoad,LigangTown, Jiangyin City, Jiangsu Province, 214444, P.R. China , New Source (By M/s Meghmani Industries Ltd, Ahemdabad in 391/392nd RC) 5. M/s Jiangsu Xinhe Agrochemical Co. Limited, No. 19, Xingang Road,Economic Development Zone, Xinyi City, Jiangsu Province, P. R. China through supplier M/s- Willowood (Hangzhou) Co.Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (by M/s Willowood Chemical Pvt. Ltd. in 413 RC) 	<ol style="list-style-type: none"> 1. Bonagiri Life ScienceLtd 2. Ghardachemicals Ltd. 3. Meghmani Industries Ltd Ahmedabad. 4. HPM Chemicals & Fertilizers Ltd., 96% min, 9(4) 5. M/s Best Crop Science LLP, 96% min, 9 (4), in 386th RC. 6. M/s Meghmani Industries Ltd.,96% min., 9(3), in392ndRC
7.	Chlothianidin 50% WDG	654	Sumitomo Chemicals Takeda Agro Co. Ltd, Japan	
8.	Chlorpyrifos Technical 94% min.	215	<ol style="list-style-type: none"> 1. Dow Agro SciencesLLC,USA 2. DowAgroSciencesLLC,UK 3. M/s ADAMA Mekhteshim Ltd. Israel. (formerly known as MekhteshimChemical Works, Beer Sheva, Israel, P.o. Box 60, 	<ol style="list-style-type: none"> 1. De-NOCILCrop Protection Ltd., Mumbai 2. Excel Crop Care Ltd., Mumbai 3. Gharda Chemicals Ltd., Mumbai 4. Montari Industries Ltd.,Delhi 5. Siris IndiaLtd., Hyderabad.

			<p>Industrial Zone, Beer Sheva, 8410001, Israel. Through Supplier: Same as Manufacturer (Validity of the source 11.12.2021) (By- M/s ADAMA India Pvt. Ltd.,)</p> <p>4. FMCCorporation,USA</p> <p>5. Cheminova Denmark A/s, PO Box 9, DK- 7620,Lemvig,Denmark.</p>	<p>6. Vantech Industries Ltd., Hyderabad.</p> <p>7. GSP Crop Science Ltd., Ahmedabad (RC305)</p> <p>8. Sabero Organics Gujrat Limited,</p> <p>9. India PesticideLtd, Lucknow</p> <p>10. Punjab Chemicals and Crop Protection Ltd,Chandigarh</p> <p>11. Rotam India Limited, Mumbai</p> <p>12. Heranba Industries Limited</p> <p>13. Insecticides India Ltd.,</p> <p>14. Shivalik Rasayan Ltd., New Delhi</p> <p>15. Bonagri Life Science Ltd, Hubli.</p> <p>16. Coromandel International Ltd.</p> <p>17. HyderabadChemical Products Pvt. Ltd.</p> <p>18. Cheminova Inida Ltd.,Gujarat</p> <p>19. Netmatrix Ltd. Hyderabad</p> <p>20. Megmani Organics Ltd., Ahmedabad</p> <p>21. Bharat Rasayan Ltd., Delhi</p> <p>22. Gujarat Insecticides Ltd. Ankleshwar</p> <p>23. Sudarshan Chemical IndustriesLtd., Pune</p> <p>24. Bhagiratha Chemicals & Industries Ltd.</p> <p>25. HPMChemicals & FertilizersLtd.,</p> <p>26. Jubilent Life Sciences Ltd., Gajraula, Jyotiba PhuleNagar,UP</p> <p>27. BestCropScienceLLP, Gajraula, UP 94.0%min.9(4)</p> <p>28. HemanilIndustriesLtd.,94.0%min. 9(4)</p> <p>29. IntegratedPesticides(P)Ltd.,, 94.0% min.9(4)</p> <p>30. SujanilChemoIndustries,Pune.,</p>
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				94.0% min.9(4) 31. Coromandel Agrico Pvt. Ltd.,NewDelhi,94.0%min.9(4) 32. M/sOriyaOrganicsPvt.Ltd.,94% min., 9(4), In386 th RC 33. M/sKrishiRasayanExportsPvt. 94% min., 9(4), In386 th RC
9.	Chlorpyrifos Methyl Technical 96%min.	403	Dow Agro Science LLC, UK.by De-Nocil Crop Protection Ltd., Mumbai in 244 th RC)	
10.	Chlorfluazuron 5% w/v (5.4% w/w) EC WRT	447	---	United Phosphorous Limited, Mumbai
11.	Chromafenozide tech 93% min.	757	Nippon Kayaku Co Ltd, Fujimi Bldg, 11-2 Fujimi 1-chome, Chiyoda-Ku, Tokya 102-8172.,Japan.Supplier:ArystaLifeScience, Tokyo,Japan.(ByP.I.IndustriesLtd., in 325 th RC)	
12.	Cimethylin Tech. 90% min.	450	Dimminico Ltd. Switzerland. (By Cyanamid Agro Ltd. , RhonePaulene House, Mumbai)	(By Cyanamid Agro Ltd. , RhonePaulene
13.	Clothianidin 50%WDG, Clothianidin 95%	654	SumitomoChemicalTakedaAgroCo.Ltd., Tokyo, Japan through ArystaLifeSciences Corporation, Japan (By M/s Nagarjuna AgriChem Ltd , in 266 th RC) Manufacturer– SumitomoChemical Co. Ltd. 27-1, Shinkawa 2-Chome, chuo-Ku, Tokyo, 104-8260, Japan. (Approved by M/s Sumitomo	

			Chemical India Ltd. supplier same as manufacturer 425 RC 95%)	
14.	1. Copper Hydroxide 77% WP, (Eq to 50.0% metallic Copper) 2. Copper Hydroxide 53.8 % DF, (Eq to 35.0 % metallic Copper)*	177	1. El DuPont de Nemours & Co., Valdosta, GA 31601, USA 2. * El DuPont de Nemours & company, Houston Manufacturing 12701, Almedaroad, Houston, Texas USA Through Supplier M/s DuPont International Operations Sarl Chemin da Pavillion, 1218, Le-Grand-Saconnex, Geneva, Switzerland (by M/s E.I DuPont India Pvt. Ltd in 347 th RC) Source Change to M/s Kocide LLC Address 9145, Guilford road, Suite 175, Columbia, Maryland 21046, USA. (by E.I Dupont India Pvt .Ltd. in 388 th RC.)	
15.	Copper Oxychloride Technical 57% min. (Copper Content)	34		1. Artee Graphite P Ltd., Delhi. 2. Mehul Organics Pvt. Ltd. 3. Vimal CropCare Ltd. 4. Joy Agro Chem Industries Ltd 5. Crystal Phosphate Ltd 6. Shyam Chemicals Pvt Ltd, Mumbai. 7. Hindustan Insecticide Ltd. 8. India Pesticides Ltd. 9. Punjab Chemicals & Crop Protection Ltd. 10. Sulphur Mills Limited
16.	Copper Sulphate Technical 98% min. equivalent to 25% copper content	32		1. Blue Crystal Agrochemicals Ltd, Bangalore. 2. Parikh Enterprises Ltd., Ahmedabad. 3. Travencore Copper Fungicide (P) Limited, Ernakulam 4. Bluesea Chemicals (I) Pvt Ltd,

				Thirumalabhagam, Kerala 5. Caress Industries Kavindapadi 6. Divya Chemical Manufacturer, Kinnigoli, Mangalore Karnataka 7. Krishi Rasayan, Kolkotta 8. Copper Chemical Manufacturers, Puthuppady (Kerala) 9. Sudarshan Chemical Industries Ltd., Pune 10. Chirag Industries, Karnataka, 98.0% min (eq 25% copper Contents), 9(4) 11. Bharath Chemicals Industries, Karnataka 98.0% min (eq 25% copper Contents), 9(4)
17.	Coumachlor	33	To be informed.	
18.	Coumatetralyl Technical 95% w/w min.	180	Bayer Crop Science AG, Germany, change to (M/s Bayer AG, Germany), (By M/s Bayer Crop Science Ltd. in 392 nd RC)	
19.	Cuprous Oxide	35		
20.	Cyantraniliprole Technical 93 % Min	794	M/s. E.I. DuPont de Nemours and Company, Dupont Crop Protection, 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. (By M/s E.I. DuPont India Pvt. Ltd. in 343 rd RC)	
21.	Cyclanilide technical 97% w/w min.		M/s Bayer Crop Science, 8400 Hawthorn, Road Kansas City, MO 64120, USA (approved by M/s Bayer Crop Science Ltd. in 427 th RC for 97% min.)	
22.	Cyflumetofen Technical 96.0 % min.	793	OAT Agrico Co. Ltd., 1-3-1 Kanda Ogawamachi, Chiyoda-ku, Tokyo,	

			Japan(M/sDhanukaAgriTechLtd.in360 th RC)	
23.	Cyenopyrafen 30% w/w SC (FI-WRT)		1. M/s Nissan chemical industries Ltd. Kowa- Hitotsubashi, Building 7-1, 3-Chome, Kanda-NishikCho,Chiyoda-Ku,Tokyo101-0054, Japan. Through Supplier: Nissei Corporation, Japan Add 10-5, Nihonbashi- Honcho, 1-Chome, Chou-ku, Tokyo 103- 0023 Japan. (Valid- uotp 26/11/2020) {By- M/sInsecticides(India)Ltd.,Delhiin393 rd RC,(FI-WRT)}	
24.	Cyflufenamid 5%EW (FI-WRT)	819	M/s Nisso Chemical Europe GmbH, berline Allee 42, 40212, Dusseldorf, Germany throughsupplier M/s Summit Agro International Ltd, Harumi Island, TritonsquareOffice,TowerZ,1-8-12,Harumi,Chou- Ku , Tokyo , 104-6223 (by M/s Dhanuka Agritech Ltd, new delhi 413RC)	-
25.	Cyfluthrin Technical 90% min,	415	1. BayerCropScienceAG,Germany., ch angeto (M/s Bayer AG, Germany), (By M/s Bayer CropScience Ltd. in 392 nd RC 2. Mitchell CottsChemicals,UK	M/s Bilag Industries Pvt. Ltd. , Vapi u/s 9 (3) in 357 th RC(TIM-TI)
26.	1. Cyphenothrin Technical 92%min. 2. Cyphenothrin 7.2%VP*	417	1. Sumitomo Chemicals, Osaka, Japan. (By Sumitomo Chemicals IndiaLtd) 2 *Earth Chemicals Co. Ltd., New Awajmachi Bldg., 3-14, 1-chome, Chuo- Ku, Osaka, Japan 7.2%VP (by Godrej Hicare Ltd, Mumbai in 325 th RC)	---
27.	Cyhalofop-butyl Technical 96% min, 97.4% min.	565	1. Dow Chemical Ltd., Japan Dow AgroSciencesDivision,Tokyo,Japan	

			<p>(By- M/s Dow AgroScience)</p> <ol style="list-style-type: none"> Dow Chemical Company, Michigan Operation, 1790 Building, Midland, MI, USA 48667(Additional Site) M/s Shanghai Shengnong Pesticide Co. Ltd., Ass: No. 51, Dongzhou Road, Dongjing Town, Songjiang, District, 201619 through supplier M/s Shanghai Forever Chemical Co. Ltd., Add: RM. 302, No. 188, Zhangyang Rd. Shanghai (approved by M/s Crystal Crop Protection Pvt. Ltd. in 426th RC meeting for 97.4% min.) 	
28.	Cyhalothrin Technical	405	<ol style="list-style-type: none"> Sumitomo Chemical M/s. Shijiazhuang Riche Co. Ltd., No.148 East Yahua Road, Shijiazhuang, 050031, Hebei, China 	<ol style="list-style-type: none"> Sumitomo Chemical Crystal Crop protection Pvt. Ltd.
29.	Cymoxanil Technical 96% min.	453	DuPont de Nemours (France) SA, DuPont Agriculture Products, 82, Wittelheim, BP 9, Cerney, France. (By E.I. Dupont (I) Ltd., in 205 th RC	<ol style="list-style-type: none"> Indofil Industries Ltd., Andheri (E), u/s 9 (3) in 291st RC Best Crop Science LLP, Gajraula, UP u/s 9 (4)
30.	Cypermethrin Technical 92% min, 70% min. & 50% min,	332	<ol style="list-style-type: none"> Dow Agro Co., UK (92% min.) Mitchel Cotts Chemicals, UK (92% min.) Zeneca Ltd., UK (70% min.) Shell International Chemical Co. Ltd., UK (50%) 	<ol style="list-style-type: none"> BASF India Ltd., Mumbai. De-Nocil Crop Protection Ltd., Mumbai Coromandel International Ltd. Secunderabad Gharda Chemicals Ltd., Mumbai. Gujarat Insecticides Ltd., Ankleshwar (92%) RPG Life Sciences Ltd., Mumbai.

				<p>7. Rallis India Ltd., Mumbai</p> <p>8. Syngenta Crop Protection Pvt. Ltd., Amar Paradigm, Pune</p> <p>9. Gujarat Agro-Chem Ltd., Mumbai</p> <p>10. Rotam India Limited, Mumbai</p> <p>11. Insecticide India Ltd</p> <p>12. Punjab Chemicals & Crop Protection Ltd</p> <p>14. Crystal Phosphates Ltd., Delhi</p> <p>Hemani International Pvt. Ankleshwar</p> <p>15. United Phosphorus Ltd., Mumbai</p> <p>16. Hyderabad Chemical Products Pvt. Ltd</p> <p>17. Heramba Industries Ltd.</p> <p>18. Megmani Organics Ltd., Ahmedabad</p> <p>19. Tagros Chemicals India Ltd., Chennai (92%)</p> <p>20. Sudarshan Chemical Industries Ltd., Pune (92%)</p> <p>21. Bharat Rasayan Ltd., Delhi (92%), 9(4)</p> <p>22. Bayer Crop Science Ltd., Mumbai, 9(4)</p> <p>23. Crop Life Science Ltd., Ankleshwar, 9(4)</p>
31.	Cyphenothrin Technical 92% min.	417	Sumitomo Chemical Co. Ltd, Japan	Sumitomo Chemical
32.	Cyproconazole Technical 94.0% w/w min	454	M/s Saltigo GmbH, Industrial Park, Leverkusen, Germany Supplier NA (By M/s Syngenta India Ltd., Pune in 393 rd RC)	
33.	Cyazofmid 34.5% SC	734	Ishihara Sangyo Kaisha Ltd., M/s United Phosphorus Ltd.,	-3-15 edobori, Nishi-Ku, Osaka - 550-0002 (By

			Mumbain 339 th RC)	
34.	Dazomet tech 94% min	456	BASF Atkiengesll Shaft , D-67056 Ludwigshafen, Germany	Margo Bio Controls Pvt. Ltd. Bangalore
35.	Deltamethrin Technical 98% min.	333	1. Bayer CropScience S.A. Lyon, France (Name of previous source is M/s. Aventis CropScience S.A. Lyon, France this was changed in 230 th RCby) 2. Bayer S.A.S., 16 rue Jean-Marie Leclair 69009,Lyon,France 3. Roussel Uclof,Paris,France	1. Agrevo IndiaLtd.,Mumbai 2. GhardaChemicalLtd.,Mumbai/s 9 (3) in207 th RC 4. Tagros Chemicals Ltd.,u/s 9 (3) in 240 th RC 5. Isagro (Asia) Agross-chemicals Pvt. Ltd.,u/s 9 (3) in258 th RC 6. Heranba IndustriesLtd,Gujarat 7. MeghmaniorganicsLtd 8. InsecticideIndiaLimited 9. HindustanInsecticideltd. 10. BayerCropScienceLtd.,Mumbai. 11. BayerVapiPvt.Ltd.,Vapi,Gujarat 12. ShogunOrganicsLtd.,Mumbai, 95%min.,9(4) 13. M/sHimaniIndustriesLtd.,Mumbai, 98%min.,9(4)
36.	Dichlorophenoxy AceticAcid Sodium salt (2,4-D) 80.3% acid	45		1. Atul India Limited,Valsad 2. ArteeMinerals,Faridabad 3. DhanukaPesticides 4. MeghmaniOrganicsLtd. 5. HeranbaIndustriesLtd.
37.	Dichloro Diphenyl Trichloroethane (DDT)	39	SojuzchimEexport,32/34,Smolensk ekaja, Sennaza (Moscow)	Hindustan Insecticides Ltd., Delhi.
38.	Diclosulam 84% WDG	787	M/s.HerbicideFormulationPlant,Bu ilding 1000 Midland, Michigan USA 48667. (By M/sDowAgroSciencesIndiaLtdin35 0 th RC)	
39.	Diclofop-methyl Technical	361	BayerCropScienceAG,Germany., c	

	93% min		hange to(M/sBayerAG,Germany,(ByM/s Bayer CropScience Ltd.in 392 nd RC.	
40.	Dicofol Technical 82% min & 85% min	199	<ol style="list-style-type: none"> 1. Agan Chemical ManufacturersLtd.,Israel. 2. MakhteshimAgan,Israel. 3. DowAgroScience,Italy. 4. I.P.I.CI.SPA,Italy. 5. Dow AgroScience,USA 6. Makhteshim ChemicalWorks,Israel. 7. Montecinca, S.A.,Barcelona,Spain 	<ol style="list-style-type: none"> 1. Indofil IndustriesLtd.,Andheri(E) 2. HindustanInsecticideLtd.(82%)
41.	Difenoconazole Technical 92% min., 95% min.	460	<ol style="list-style-type: none"> 3. Syngenta Crop Protection AG Monthey, Switzerland . (By Syngenta (India) Ltd., Mumbaiin 219thRC) 4. M/s Lier Chemical Co. Ltd., Economic &Technical Development Zone, Mianyang, Sichuan, P.R. China (By M/s Willowood ChemicalsPvt.Ltd,95.0%Minin354th RC) 	<ol style="list-style-type: none"> 1. AstecLifeScienceLtd95.0%min/u/s 9 (3) in341stRC 2. IndofilIndustriesLtd.,Mumbai95% min u/s 9 (3) in 353rdRC 3. CheminovaIndiaLtd,Mumbai92.0% min in 362nd RC TIMvs.TI 4. ExcelCropCarePvt.Ltd,Mumbai95.0% min in 362nd RC TIM vs.TI 5. M/sOriyoOrganicsPvt.Ltd.,95% w/w min.,9(4), in387thRC
42.	Diafenthiuron tech 96% min., 97% Tech Min	459	<ol style="list-style-type: none"> 1. Syngenta Crop Protection, AG, Monthey, Switzerland. (By M/s Syngenta India Ltd , Mumbai in 230th RC) 2. M/s Jiangsu Changlong Agrochemical Co. Ltd., No. 8 Tuanjiehe Road, Economic Development District of Taixing, Jiangsu, China through supplier M/s WillowoodLtd. 17thFloorSeaviewPlaza283,ShauKei Wan Road, Shau Kei Wan, Hong 	<ol style="list-style-type: none"> 1. GSP Crop Science Pvt. Ltd. Ahmadabad u/s 9 (3) in 323rdRC 2. InsecticidesIndiaLtd. 3. IndofilIndiaLtd.96.0%min,9(4) 4. AgricoOrganicsLtd.,96.0%min,9 (4) 5. KrishiRasayanExportPvt.Ltd.96.0 % min, 9 (4) 6. BonagerLifeScience,96.0%min,9 (4) 7. AmbeyLabsPvt.Ltd.,NewDelhi, 96.0 % min, 9(4) 8. CropLifeScienceLtd.,Ankleshwar, 96.0% min, 9 (4)

			<p>Kong.(By M/s Willowood Chemicals Pvt. Ltd. Kolkota in 367thRC)</p> <p>3. M/s Jiangsu wood Harvest-Weien Agrochemical Company Ltd. China which is registered for manufacture of Diafenthiuron 96%withvalidityupto23.07.2023.(By M/s Crystal Crop Protection Pvt. Ltd ,Delhi in 404thRC)</p>	<p>9. BestCropSciencePvt.Ltd.,New Delhi, 96.0 % min,9(4)</p> <p>10. M/sNagarjunaAgritechLtd.96% min, 9(4) in386thRC.</p> <p>11. M/sIndiaPesticidesLtd.,96%amin, 9(4) in390thRC.</p> <p>12. M/s Punjab Chemical & Crop Protection Ltd. u/s 9(4) in 421st RC</p>
43.	Diflubenzuron Technical 90% min., 95% min.,	377	<p>1. Chemtura, Netherlands, B. V, Netherlands (earlier known as M/s Uniroyal Chemicals B.V., Netherlands 90.0%min)</p> <p>2. Dow AgroScience,US</p> <p>3. Uniroyal Chemical Co., USA and M/s Duphar Br. Hollandthroughsupplier</p> <p>M/s Arysta Life science Netherlands B.V,Ankerweg 18,1041 Amsterdam, Netherlands (endorsement By- M/s Arista Life Science India Ltd., in 386th RC)</p>	<p>1. GhardaChemicalsLtd.,Mumbai,u/s9 (3) in220th RC</p> <p>2. Hindustan InsecticideLtd.90%)</p>
44.	Diflubenzuron 2% Gr.	377	<p>ChemturaItalyS.r.l,ReaIndustriaChemica</p> <p>S.P.a.s.s87km,20.700,81025,Maarcianise (CE), Italy, Europe (By M/sChemtura Chemicals India Pvt. Ltd in 289th RC)</p>	
45.	Diflubenzuron 2% Tablet	377	<p>ChemturaItalyS.r.l,ReaIndustriaChemica</p> <p>S.P.a.s.s87km,20.700,81025,Maarcianise (CE), Italy, Europe (By M/s</p>	

			Chemtura Chemicals India Pvt. Ltd in 284 th RC)	
46.	Dimethomorph 12% + Pyraclostrobin 6.7% WG for import	795	M/s. IPT Pergande GmbH, Wilfried Pergande Platzl, 06369 WeiBandt -Golzau, Germany(ByBASFIndiaLtd,Mumbai,in 366 th RC)	
47.	Dimethoate Technical 85% min.	47	1. AgrimotSPA,Italy. 2. I.P.I.C.I.SPA,Italy 3. Cheminova A/S, P.O. Box 9, DK 7620, Lemvig,Denmark 4. M/s. Chongqing Pesticides & Chemical Industry Group Company Ltd., Hunan Fourth Road, Chongqing Chemical Industrial Park, Chongqing, China(95% Min)	1. RallisIndiaLtd. 2. ShawWallace&Co.Ltd.,Chennai 3. Cheminova IndiaLtd.,Bangalore 4. HyderabadChemicalProductsPvt. Ltd. 5. ShivalikRasayanLtd. 6. SudarshanChemicalIndustriesLtd., Pune 7. CoromandellInternationalLtd.
48.	Dimethomorph Technical 95.5%min.	462	BASF,S.A.,RodoviaPresidenteDutra,KM 300.5, 27537-000-Resende RJ, Brazil (By M/s BASF India ltd in 240 th RC)	
49.	Dinocap Technical 90% min.	204	1. DowAgroScience,Italy. 2. DowAgroScience,USA	
50.	Dimotefuran 20 % SG (FI-WRT)	713	1. GAP Industries Co Ltd, Thailand through supplier M/s Summit Agro International Ltd., Summitomo CorporationTakebashi Building, 9F, 1-2-2, Hitobashi,Chiyoda-Ku,Tokyo 100-0003, (By M/s P I Industries Ltd in 326 th RC.)	---
51.	Dinotefuran Technical 99.1% w/w min. Dinotefuran 97%	713	1. M/s Mitsui Chemicals Agro Inc. (MCAG), Japan (by M/s P. I. Industries Ltd 99.1% min. in 414 th RC)	2. M/sInsecticidesIndiaLtd,New Delhi (97% min 416RC) 3. M/sBestCropScienceLLP,New Delhi (97% min416RC)

	w/w Min			
52.	Dithianon Technical 93% min.	342	1. Celamerck Gmbh & Co., Ingelhum, West Germany.	Rallis India Ltd.
53.	Diuron Technical 95% min. and 98% min.	211	1. E.I.Dupont de Nemours & Co., Inc.USA 2. ADAMA Agan Ltd. P.O.B. 262, Ashdod, Israel. (Formerly known as M/s Mekhteshim Chemical Manufacturer Ltd., Israel). Through Supplier: Same as Manufacturer Valid upto of the source 11.12.2021 (By- M/s ADAMA India Pvt. Ltd.,)	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 Industries Ltd, Ahmedabad 8. M/s Insecticides India Ltd., 98% min.,9(4) in386 th RC
54.	Dodine Technical 98% min.	212	1. Kenogarh AB, Stockholm, Swedonand Agro Kemia Industrial Co- op, Hungary. (by M/s Kisan Chemicals , Chandigarh in 1990 year vide CIR No 12,323) 2. CHIMAC S.A. Rue de Renory, 26/2, B- 4102, Belgium. Supplier: AGRIPHARS .A. Ruede Renory, 26/1,B-4102,Belgium	1. Indofil Industries Ltd., Andheri (E), u/s 9 (3) in243 rd RC
55.	d-trans- allethrin Technical 93% min.	3		1. Shogun Organics Limited. 206A, Kotia Nirman,Andheri(W) 2. BayerVapiPvt.Ltd.,Vapi,Gujarat 3. Insecticide IndiaL imited,Delhi 4. Reckitt Benckiser IndiaLimited 5. SumitomoChemicalsIndiaPvt.Ltd, 220, NarimanPoint,Mumbai 6. TagrosChemicalsIndiaLtd.,93% min.,9(4) 7. M/sSynergiaScience Pvt. 93%9(4) in345 th RC
56.	Ediphenophos Technical 85% min.	217	1. Nihon Tokusu Noyakh, Japan. 2. Chemagro Agril.Divn.,USA	

			<p>3. M/bay Chemical Corpn., USA</p> <p>4. Bayer Crop Science K.K.Japan (By Bayer Crop Science Ltd., IndiaTI)</p>	
57.	Emamectin Benzoate Technical 95%min.	604	<p>1. M/s Hebei Vain Biochemical Co. Ltd 393 Heping East Road, Shijiazhuang City, Hebei Province, P.R. China. 95.0% Min (By Jaishree Agro Industries Ltd , Delhi In 293rd RC) Source name Change to M/s. Hebei Veyoug Bio-Chemical Co. Ltd, China</p> <p>2. Hunan Gofar Fine Chemical Industry Technical 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 (ByKrishi Rasayan Exports Pvt. Ltd. In 341th RC)</p> <p>3. M/s. 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. (By M/s Meghmani Organics Ltdn in 329th/346thRC)</p> <p>4. M/s.Syngenta Nantong Crop Protection Co. Ltd., No.1, Zhong Yang Road, Nantong, Jiangsu,</p>	

			<p>PRChina,(Valid till 09.03.2019) 95.0% min (by M/s Syngenta India Ltd. in 356thRC)</p> <p>5. Qingdao KYX Chemical Co. Ltd., Shuji Industries Zone, Laixi District, Qingdao, China Zip-266071 95.0%min (By M/s Mahamaya LifeScience Pvt. Ltd. in 363rdRC)</p> <p>6. M/s Jingbo Agro chemicals Technology Co., Ltd., Economic Development Zone, Boxing County, Shandong Province-256500,P.R. China through Supplier M/s Willowood (Hangzhou) Co. Ltd., Room 2003, Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China. validity upto 24th April, 2019 (by M/s Willowood Chemicals Pvt. Kolkata in 367thRC)</p>	Ltd.,
58.	Emamectin Benzoate 5 % SG	604	1. Syngenta Crop protection AG, Switzerland (by M/s Syngenta India ltd in 277 th RC)	
59.	Emamectin Benzoate 0.1% w/wGelBait	604	Fumakilla Malaysia Berhad, Plot No. 256, Tingkat Perusahaan 5 Kawasan Perindustrian Perai 2,13600 Perai, Penang, Malaysia validity upto 31 st March, 2019 (by M/s Syngenta India Ltd. In 367 th RC)	
60.	Epoxiconazole Tech 92% min	548	1. BASF Schwarzheide Gmbh, Schipkauer Strasse1,01987 Schwarzheide,Germany (by M/s BASF India Ltd. Mumbai in 360 th RC)	
61.	Ethephon Technical	223	1. Bayer Crop Science LP, North	1. Krishi Rasayan Pvt. Ltd., Calcutta u/s 9

	75% min, 90%min& 89% min.*		<p>Carolina, USA. Hebei Bestar Commerce and Trade Co. Ltd., 6-3-203 No.66 Dianda Street Xinhua District Shijiazhuang, China (validity upto 29 SEP 2022) 90% min</p> <p>2. * M/s Shijiazhuang Richem Co., 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.90.0% min (By M/s Crystal Crop Protection , Delhi in 365thRC)</p> <p>3. M/s Jiangsu Anpon Ltd. Electrochemical Co. Ltd No. 30, Huangong Road, Huaian, Jiangsu, China (by M/s Agro Life Science Corporation in 417th RC)</p>	<p>(4) , 75.0% min in 256thRC</p> <p>2. Bharat Rasayan Ltd Delhi,Calcutta u/s 9 (4) , 75.0%min in 352thRC</p>
62.	Ethion Technical 92% min. & 95%* min. 98 % min**	222	<p>1. Rhone Poulenc Agrochemie, Francek Supplied by: Volkart Brothers Ltd., Switzerland.Suppliedby– VolkartBrothers Ltd.,Switzerland</p> <p>2. *Cheminova A/S, P. O. Box 9, DK 7620, Lemvig,Denmark</p> <p>3. **M/sShijiazhuangRichemCo.,Ltd. ,No. 148 East Yuhua Road, Shijiazhuang, 050031, Hebei, China through Supplier M/sShijiazhuangRichemCo.,Ltd., No.148 East Yuhua Road, Shijiazhuang, 050031,</p>	<p>1. RallisIndiaLtd.</p> <p>2. PI IndustriesLtd.,Udaipur</p> <p>3. Shaw Wallace &Co.,Chennai.</p> <p>4. Shivalik Rasayan Ltd,NewDelhi</p> <p>5. HikalLimited,Mumbai</p> <p>6. Enzyme Pharmaceuticals and Industrial ChemicalsLtd,Mumbai</p> <p>7. Bhaskar Agro Chemicals Ltd, Hyderabad</p> <p>8. UnitedChemicals,Hyderabad</p> <p>9. Krishi Rasayan (P)Ltd</p> <p>10. CoromandelInternationalLtd.</p> <p>11. HyderabadChemicalProductsPvt. Ltd.</p> <p>12. Punjab Chemicals and crop</p>

			Hebei, China	protectionLtd., Mumbai 13. BharatRasayanLtd., Delhi(95%) 9(4) 14. SudarshanChemicalIndustriesLtd., Pune (95%)9(4)
63.	Ethiprole Tech 92% min, *94.5% min.	717	Bayer Crop Science, Hangzhou, Co. Ltd., China. (By M/s Bayer Crop Science in 306 th RC)	1. M/s Bayer Vapi Pvt. Ltd. u/s 9(3) in 426 th RC meeting for 94.5% min.*
64.	Ethofenprox Technical 96.3% min. (Etofenprox)	420	Mitsui Chemical Inc., Kasumigasakri, B-Cheme-Chiyaoda, Tokyo-100, Japan. New Source - Mitsui Chemicals, Shidome City Centre, 1-5-2, Higashi-shimbashi, Minato-ku, Tokyo, Japan (Authorized Agent/ throughsupplier -M/s Summit Agro International Co. Ltd., Tokyo, Japan	2- 5 Isagro Asia India Pvt. Ltd. 2. RPG Life Science Ltd., Mumbai
65.	Ethoxysulfuron 15% WDG	519	1. Manufactured by Bayer Crop Science AG, Germany and formulation supplied by- Bayer Vietnam Ltd., Lot 118/14, Amata, IP Bien Hoa City, Dong Nai Province, Vietnam. (Bayer Crop Science Ltd. in 392 nd RC)	Crop Science AG, Germany., Source name change to M/s Bayer AG, Germany), (By M/s Bayer
2.	Ethoxysulfuron Technical 95%w/wmin.	519	1. M/s Bayer Crop Science AG, Germany., change to M/s Bayer AG, Germany), (By M/s Bayer Crop Science Ltd. 95% in 392 nd RC)	
3.	Ethylene Dibromide and Carbon Tetrachloride mixture (EDCT Mixture 3:1) { Ethylene Dibromide is banned vide S.O 682(E) 17 th July, 2001 }	50	To be informed.	
4.	Etoazole 10% SC (FI- WRT)	828	1. Sumitomo Chemicals Company Ltd., 27-1, Shinkawa, 2-Chrome, Chuo-ku,	

			Tokyo-104-8260, Japan (By M/s Sumitomo Chemicals India Pvt. Ltd , Mumbai in 347 th RC)	
5.	Flucetosulfuran(WG) 10% Min.(FI-WRT)	779	1.M/s. 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 (By M/s LG Life Sciences India Ltd , New Delhi in 365thRC) Change to M/s LG Chem. Ltd., 128Yeoui- daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea. (validity upto 29/09/2025) (byM/s.L.GLifeScienceIndiaPvt.Ltd., Delhi in 386 th RC.)	
6.	Flumioxazin Technical 98 % w/w Min	701	1. M/s Sumitomo Chemical Co., Ltd. 27-1, Shinkawa 2- chome, Chuo-ku, Tokyo 104- 8260. Through Supplier- same as manufacturer valid upto-27.03/2018) (By- .M/s Sumitomo Chemical India Pvt. Ltd., in 387 th RC)	-
7.	Famoxadone Technical 96% min	569	1. DuPont Iberica, SA-33469, Tamon- Aviles, Asturias, Spain (By M/s E.I Dupont Pvt. Ltd , in 293 rd RC) Change to M/s. DuPont Asturias S.L., Valle de Temon Nubledo, 33469 Tamon- Carreno, Aviles, Ausurias, Spain through supplier M/s DuPont Internationa lOperations Sarl, Chemindu Pavil lon2,CH- 1218 Le grand Saconnex, Geneva,Switzerland. 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 Le grand Saconnex, Geneva, Switzerland.	
8.	Fenamidone 10% + Mancozeb 50% WDG,FI	649	Bayer S.A.S., 16 rue Jean-Marie Leclair 69009, Lyon, France (By M/s Bayer Crop Sciences in 286 th RC)	
9.	Fenamidone 4.44% + Fosetyl AI 66.66% WDG,FI	649	1. Bayer S.A.S., 16 rue Jean-Marie Leclair 69009, Lyon, France. (By M/s Bayer crop Sciences Ltd ,Mumbai in 293 rd RC)	
10.	Fenitrothion Technical 95% min.	226	1. NovartisCropProtection,AG,Switzerland. 2. Bayer Crop ScienceAG,Germany. 3. Sumitomo Chemical Co.Ltd.,Japan.	1. RallisIndia,Bangalore 2. Bayer Crop ScienceLtd.,Mumbai.
11.	Fenobucarb(BPMC) Technical 95%min.	147	1. Bayer CropScience LP, 2TW, Alexander Drive, Research Triangle Park, North Carolina 27709, USA (Name of previous source is M/s. Aventis CropScience LP, 2TW, Alexander Drive, Research Triangle Park, North Carolina 27709, USA and was changed in 230 th RC) 2. Rhone Poulenc Ltd., Seoul, South Korea. 3. Hunan Haili Chemical Industry Co. Ltd. 251, 2 nd Section Furong Road (M), Changsha Hunan, China 4. BayerCropScienceLP, USA	
12.	Fenoxaprop-p-Ethyl	468	1. BayerCropScienceAG,Germany, (1. M/s Cheminova India Ltd., Mumbai for

	Technical 88%min.		By Aventis CropScience) Changeto M/sBayer AG,Germany,(ByM/s BayerCropScienceLtd.in392 nd RC.) 2. HangzhouUdragoan Chemical Co. Ltd. 172, Zhangjiadun Road, Tangxi, Yuhang, Hangzhou, Zhejiang, P.R. China. Through Supplier: M/s. Willwood (Hangzhou) Co. Limited,RoomNo.2003,GoldenPla za,No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China. (By M/s Willowood Chemicals Pvt. Ltd in 348 th RC)	88.0% Min (w/w (TIM Vs TIT) under section9(3)oftheInsecticidesAct,1968.in 354 th RC 2. M/s Atul Ltd., 88% min.,9(4), in 386 th RC
13.	Fenpropathrin Technical 90% min.	387	Sumitomo Chemical Co. Ltd., Japan	1. SumitomoChemicalsIndiaPvt. Ltd,Mumbai 2. S.C.EnviroAgroIndia(P)Ltd. Mumbai 9 (3) in218 th RC 3. BharatRasayanLtd.,NewDelhi 90.0% min. 9(4)
14.	Fenpyroximate Tech (95.9% min) (98% min.), 98.5% min.	619	Nihon Nohyaku Co. Ltd., Tokyo 2-5, Nihonbashi 1-Chome, Chou- ku, Tokyo, Japan (By Rallis India ltd , in 277 th RC)	1.Isagro (Asia) Agrochemicals Pvt. Ltd., Mumbai, u/s 9 (3) in269 th RC 2. GSPCropSciencePvt.Ltd.,Ahmedabad 3.Excel Crop Care Ltd., Mumbai, u/s 9 (3) in304 th RC 4.Jai Shree Rasayan Udyog Ltd., New Delhi, (98% min.),9(4) 5. M/sBestCropScienceLLP,98.5% min.,9(4), in386thRC

15.	Fenvalerate Technical 90% min.	334	Sumitomo chemical Co. Ltd., Japan.	<ol style="list-style-type: none"> 1. RallisIndia,Mumbai. 1. RPG Life SciencesLtd.,Mumbai. 2. Megmani Organics Ltd., Ahmedabad 3. CoromandelInternationalLtd. 4. HyderabadChemicalProductsPvt. Ltd. 5. United PhosphorusLtd.,Mumbai 6. Tagros Chemicals India Ltd., Chennai 7. Sudarshan Chemical Industries Ltd.,Pune 8. Gujarat Insecticide Ltd., Ankleshwar 9. Bharat RasayanLtd.,Delhi
16.	<ol style="list-style-type: none"> 1. FipronilTechnical 90%, 92% min, 95% min., 97% min 2. Fipronil 80%WG* 3. Fipronil 0.03%gel** 4. 0.05%GEL*** 	520	<ol style="list-style-type: none"> 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 M/s. Aventis CropScience S.A. Lyon, France this was changed in230thRC)} 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 (By M/s Hilfil Chemicals 	<ol style="list-style-type: none"> 1. GhardaChemical Ltd., Mumbai (TIM) u/s 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.

			<p>Pvt. Ltd 95.0 %Min in 367th RC) to M/s Hisun Chemical(Nantong) Co., Ltd., No.20, 4th Haibin Road, Rudong Coastal Economic DevelopmentZone,Nantongcity,Jiangsu Province, P.R. China (by M/s KrishiRasayan Exports Pvt. Ltd. 95%min . in 416th RC)</p> <p>5. Bayer SAS, Bayer Environmental Science, 16 rue Jean-Marie Leclair 69009, Lyon – France</p> <p>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 (By M/s Bayer Crop Science Lt din 297thRC)</p> <p>7. ** Bayer Environmental Science , France (By Bayer Crop Science India Ltd in 348thRC) Change to Bayer SAS, Bayer Environmental Science, France (in 332nd RC in case of 0.03% Gel)</p> <p>8. ***M/s Bayer SAS, Bayer Crop Science Industrial Operations Marle, France.Through Supplier: M/s- Bayer SAS, Bayer Environmental Science, Lyon, France. Fipronil 0.05% GEL, FI/9(3). (M/s Bayer Crop Science in 408thRC.).</p> <p>9. *** Kukbo Science Co. Ltd. 49, Sandan- RO, Heungdeok-Gu,</p>	<p>14. HPM Chemicals &FertilizersLtd.,</p> <p>15. Best Crop ScienceLLP,Gajraula, UP</p> <p>16. Sujamil Chemo Industries, Pune 92.0% Min.9(4)</p> <p>17. Excel Phosphorus (P) Ltd., 92.0% Min.9(4)</p> <p>18. Sahib Pesticides,Karnal,92.0% Min.9(4)</p> <p>19. M/s Synergia Science Pvt. Ltd. 92.0%, 9(4) in 342th</p> <p>20. Anu Products Ltd., NewDelhi, 92.0% Min.9(4)</p> <p>21. Bayer Crop ScienceLtd. Mumbai.</p> <p>22. M/s Bonageri Crop Science Ltd., 92% min ,9(4), in 386thRC</p> <p>23. M/s Crimsun Organics Pvt. Ltd., 92.0% Min. 9(4) in 397thRC.</p>
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			<p>Cheongju, Chungbuk, Korea (By M/s Mahamaya LifeScience Pvt. Ltd., for grant of registration for Fipronil 0.05% Gel for formulation import in 392ndRC)</p> <p>10. M/s Haillir Pesticides and Chemicals Group Co. Ltd., East industry Zone, Chengyang District, Qingdao, Shndong, China (approved by M/s Indogulf Cropsiences Ltd.in 427th RC for 97% min.)</p> <p>11. M/s Hisun Chemical (Nantong) Co. Ltd. (ADD: No. 20, 4thHaibin Road, Rudong Coastal Economic Development Zone, Nantong City, jiangsu Province, P. R. China) changed to M/s Synwill Nantong Chemical Co. Ltd. (ADD: No. 20, 4thHaibin Road, Rudong Coastal Economic Development Zone, Nantong City, jiangsu Province, P. R. China) (approved by M/s Hifil Chemicals Pvt. Ltd. in 427th RC for 95% min.)</p>	
17.	Flonicamid Technical 96% w/w min, *Flonicamid technical 98% w/w			<ol style="list-style-type: none"> 1. M/s Meghmani Ogranics Ltd. 2. *M/s Crystal Crop Protection Ltd. approved in 425th RC 3. *M/s UPL Ltd. approved in 425th RC
18.	Flonicamid 50% WG (FIM- WRT)	731	---	United Phosphorous Limited, Mumbai, u/s 9(3), (FIM-WRT) in 326 th RC
19.	Florasulam Technical 96.2% w/w min		<ol style="list-style-type: none"> 1. The Dow Chemical Company, Building 1, Midland, MI 48667, USA through supplier Dow Agrosiences LLC, 9330 Zionville Road Indianapolis, IN 	

			46268, USA (approved by M/s Dow Agroscience India (P) Ltd. (428 th RC)	
20.	Flubendiamide Technical 95% min	714	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 278 th RC) Change to M/s Bayer AG, Germany (By M/s in 392 nd RC.)	
21.	Fluazifop-p-butyl tech	732	Syngenta Ltd., Huddersfield, United Kingdom(By M/s Syngenta Crop Protection Pvt. Ltd, Pune in 314 th RC)	
22.	1. Flufenacet Tech.95%min 2. Flufenacet50.0%SC*	573	1. Bayer Crop Science LP, P.B. No 4913 Kansas City, Missouri, USA- 64120 (By Bayer India limited in 249 th RC) 2. *Bayer Crop Science AG, Monheim, Germany, (By Bayer India limited change to M/s Bayer AG, Germany (By M/s Bayer CropScience Ltd.in 392 nd RC.)	
23.	Fluchloralin Technical 55% min. & 65% min.	146	1. BASF WayandotteCorpn,USA 2. BASF, WestGerman.	
24.	Fluensulfone 47.0 %TC (MUP)		M/s ADAMA Makhteshim Ltd. (formerly known as Makhteshim Chemical Works Ltd PO box 60 Industrial Zone Beer Sheva, 84100, Israel (By M/s ADAMA India Pvt. Ltd , Hyderabad in 389 th RC)	
25.	Flufenoxuron Technical 95% min.	423	1. GreatLakes(UK)Ltd, Halebank	

			Widnes CheshireWA8,8NS,UK.(Earlier BASF Agro-production, France).	
26.	Flufenoxuron Tech. 94% min.	423	1. GreatLakes(UK)Ltd.HalebankW idnes, Cheshire WAB8NSUK. 2. Agrishell S.N.C.Zone,France. Through supplier M/s Shell International Chemical Co.Ltd.)	
27.	Flufenzine (Flumite) Technical	665	Agro Chemie Pesticides mfg, Trading & Distributing Co. Ltd,Hungary (by M/s Rotam India ltd in 261 st RC)	
28.	Fluopicolide Technical 95.5% min.	740	1. Bayer (Schweiz) AG, Switzerland (By M/s Bayer Crop Sciences Ltd , Mumbai in 349 th RC)	
29.	Fluopyram Technial 94.5% w/wmin	811	1. M/s Bayer CropScience AG, Germany Supplier same as manufacturerer Valid upto 31.01.2024 (ByBayer Crop Science limited, Mumbai in 357 th RC for 94.5% w/wmin) Change to M/s Bayer AG,Germany (By M/s Bayer Crop Science Ltd. in 392 nd RC.)	
30.	Flupyradifurone Tech. 96% Min	830	1. Bayer Crop Science AG, Germany. (By Bayer crop Sciences,Mumbai in 367 th RC) Change to M/s Bayer AG, Germany (By M/s Bayer CropScience Ltd. in 392 nd RC.)	
31.	Fluxapyroxad 333 g/l FS (FI- WRT)	827	1. M/s. BASF Agri-Production S.A.S., Zone Industrielle Lyon Nord, Rue, Jacquard69727 GenayCedex,France.(ByM/sBASF India ltd , Mumbai in 365 th RC)	
32.	Fluxapyroxad technical 98.0	827	1. .M/sBASFSE,CarlBosch-	

	% min		Strasse38,D-67056,Ludwigshafen,Germany.(By M/s BASF India Ltd , Mumbai in 366 th RC)	
33.	Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC for import	798 637	M/s. BASF Sparks, LLC, 14284 Highway 42North,Sparks,Georgia31647,US A.(By BASF India Ltd, Mumbai in 366 th RC)	
34.	Fluxapyroxad 75 g/l w/v + Difenconazole 50 g/l w/v SC		M/sBASFESpanolaS.L.Ctr.Nacion al,N- 340km1, 15643006Tarragona,S pain(By BASF India Ltd, Mumbai in 399 th RC)	
35.	Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC for import	798 637	BASFESpanolaS.L.Ctra.Nacional N340 Km 1,156 43006Tarragona Flux ,Spain (by BASF India Ltd., Mumbai, in 386 th RC)	
36.	Fluxapyroxad 62.5% + Epoxyconazole62.5%g/IEC	827 548	1. M/s BASF Espanola S.L Ctr. Nacional 340 Km 1156, 43006 Tarragona, Spain (by M/s BASF India Ltd. Mumbai in 371/372 nd RC)	
37.	1. Flusilazole Technical 92.5%min, 2. FlusilazoleTechnical95% min.*		1. DuPont de Nemous (France) S.A. DUPont Agricultural Products, 82, Witelshein–B.P. 9, Cernay, France (By M/s E.I. Dupont India LTD, Gurgoan,in 255 th RC, 92.0% min) 2. * Anhui Huaxing Chemical Industries Co. Ltd.,No. 6, Hongfeng Road,Hefei P.R.China Valid upto 18.12.2018 (By M/s Dhanuka Agritech. Ltd., New Delhi for 95.0 % min in 370 th RC)	

			3. M/s Bingo Technology Ltd, Add.-: 5/F Hong Kong trade centre,161-167 Des Voeux road central, Hong Kong (by M/s DhanukaAgritech Ltd. in 413 th RC 95% min.)	
38.	Fluthiacet-methyl Tech. 95% min.	859	1. M/s Jiangsu Lianhe chemical Technology Co, Limited, Weiyi Road, Chenjiagang Chemical Industry Area, Xianshui, Yancheng, Jiangsu Province,China, 224631 Through Supplier: M/s FMC corporation, 2929 Walnut street, Philadelphia, Pennsylvania, PA 19104, USA. (valid upto October 10,2021) (By-FMC India Pvt Ltd, Bangalore, 95% min in 386 th RC)	
39.	Fluroxypyr meptyl 48% W/v (45.5% w/w) EC FI-WRT		1. M/s- Dow Agro Sciences S.A.S Drusenheim, BP20-8 route de Herrlisheim, 67410 Drusenheim- France through supplier M/s- Dow Agro Sciences S.A.S Drusenheim,BP 20-8 route de Herrlisheim, 67410 Drusenheim- France (approved by M/s Dow Agroscience India (P) Ltd. (428 th RC)	
40.	Fomesafen Technical 95% min	739	1. M/s Jiangsu Changqing Agrochemical Co. Ltd., No. 1 Jiangling Road Putou Town, Jiangu, Jiangsu-225 218 PRC Valid upto 29.04.2018. (M/s. Syngenta India Ltd., Pune in 360 th RC) 2. M/s Inner Mongolia Join Dream Fine Chemicals Co. Ltd. (Add. Zhiongcheng Road East, Wuda Economic Development	

			Zone, Wuhai 016000, Inner Mongolia, China) and through supplier M/s Hebei Bestar Commerce and Trade Co. Ltd., (Add. 6-3-203 No. 66 Dianda Street, Xinhua District, Shijiazhuang, Hebei, China) (by- M/s Crystal Crop Protection Pvt. Ltd. in 421 st RC)	
41.	Fluvalinate Technical 88% min.	395	Novartis Crop Protection, AG, Switzerland.	Syngenta India Ltd.
42.	Formothion Technical 50% min.	234	Novartis Crop Protection Inc., USA	
43.	Forchlorfenuron (CPPU) Technical 98%min.	645		1. Omega Fine Chemicals Mumbai u/s 9 (3) , 98.0% min in 289 th RC 2. Mauni Agro Chemical Industries Pvt. Ltd. Kopargaon. 3. Sunshine Fine Chemical India Pvt. Ltd. Matrix Biocontrol (India) Pvt. Ltd., Nashik, 98% min 9(4)
44.	Forchlorfenuron 0.12%EC	645	AIZChemTrostbergGmbH,Postfach -1262, D-83303,Trostberg, Germany (By Ms PNP associates Pvt. Ltd , Faridabad in 311st RC)	
45.	Fosetyl-Al Technical 95% min. 96% min*	363	1. Bayer, S.A.S, 16 rue Jean-Marie Leclair 69009,Lyon,France through Supplier M/s Bayer Crop Science, AG, Germany (M/s Bayer Crop Science Ltd., Mumbai) 2.* M/s Zhejiang Jiahua Chemical Co. Ltd., China through Supplier M/s Bayer CropScience, AG, Germany 96.0 % min Valid upto 01.04.2019 (M/s Bayer Crop Science Ltd., Mumbai in366 th RC)	.

46.	Gibberellic Acid Technical 90% min.	236	<ol style="list-style-type: none"> 1. Valent Bioscience Corp. 2. Polfa Pharmaceutical Works, Poland Supplied by:Ciech Poland. 3. Phylaxia Veterinary Biologicals, Budapest, Hungary. Supplied by: Medimpex, Hungary. 4. ZenecaLtd., UK. 5. Hunan Biological Medicine Factory, China.through Hunan Yahua Seed Corporation Ltd., Changsa, China. 6. Capd, Abbotlab,USA 7. M/s Jianxi New Reyphon Biochemicals Co. Ltd.,China through supplier M/s Willowood Ltd., Hong Kong, (By M/s Willowood Chemicals Pvt. Ltd. in 390thRC) 8. M/s Zhejiang Qinjiang Biochemical Co. Ltd., Add: 598, Xishan Road, Haining Zhejiang, China and supplied by M/s Shanghai Agrotree Chemical Co. Ltd., Add: Room B515, No. 2250, South Pudong Road, Pudong, Shanghai 200127, P. R. China. (by M/s Krishi Rasayan Exports Pvt. Ltd., approved in 424th RC 90% min.) 	<ol style="list-style-type: none"> 1. Shankar & Sastry Ltd.,Bangalore 2. KrishiRasayanPvt.Ltd.,Kolkata
47.	Gibberellic Acid 40.0% WSG FI		M/s. Valent BioSciences Crop, 870 Technology Way, Libertyville, IL, 60048, USA (By M/s Sumitomo Chemical India Pvt. Ltd , Mumbai in 362 nd RC)	
48.	Glufofosinate Ammonium Technical 50% min. (LC)	274	<ol style="list-style-type: none"> 1. Bayer Crop Science AG, Frankfurt, Germany.By Bayer 	M/s UPL Limited, Mumbai u/ s 9(3) 50.0% min TC (TIM vs TI) 383 rd RC

			<p>Crop Science Ltd., India LCI) change to (M/s Bayer AG, Germany), (By M/s Bayer Crop Science Ltd. in 392ndRC</p> <p>2 Bayer Crop Science LP, Michigan, USA</p>	
49.	Glufosinate Ammonium Technical 95% w/w min	274	<p>1. M/s Shijiazhuang Richem Co. Ltd., No. 148 Yuhua Road, Chang An District, Shijiazhuang, China and supplied by M/s Shijiazhuang Richem Co. Ltd., No. 148 Yuhua Road, Chang An District, Shijiazhuang, China (approved by M/s Crystal Crop Protection Pvt. Ltd. (428th RC)</p>	
50.	Glyphosate Tech. 95% min.* Glyphosate IPA Salt Technical 62%min.	327	<p>1. Cheminova A/s P.O Box 9, DK-7620, Lemvig, Denmark. (By M/s Cheminova India Ltd , Mumbai in 218th RC)</p> <p>2. *Hebei Golhil Chemical, Co. Ltd, Tongda Road, Jinzhou city, 052260, Hebei, China Through supplier M/s Hebei Bestar commerce and Tradel co. Ltd., 148, East Yuhua Road, Shejiazhuang, 050031, China (95% Min) (By M/s Crystal Crop protection , New Delhi in 348th RC</p> <p>3. *M/s Jiangxi Jinlong Chemical Co. Ltd. Tashan Industrial Park of Leping City of Jiangxi Province, China through supplier M/s Willowood (Hangzhou) Co. Ltd. Room No.2003,Golden Plaza No.118,Qingchun Road, Xiacheng, District, Hangzhou city, Zhejiang Province, China 95.0% min (By M/s Willowood Chemicals Pvt. Ltd , in</p>	<p>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., NewDelhi 16. Jai Shree Rasayan Udyog Ltd, Nathupur, Sonapat(Haryana) 17. Heranba Industries Ltd,Mumbai 18. Shivalik Rasayan Ltd, NewDelhi 19. Sharda worldwide Exports PvtLtd, Mumbai</p>

		<p>366thRC)</p> <p>4. Nantong Jiangshan Agrochemical & Chemicals Limited Liability Co., No. 998 Jiangshan Road, Nantong Economic & Technological Development Zone, Nantong, Jiangsu, China through supplier M/s Sinochem International Corporation, 19/F, Jimmao Tower, No.88 Century</p> <p>5. *M/s 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 (approved by M/s Parijat Industries (India) Pvt. Ltd. in 426th RC meeting)</p> <p>6. M/s Monsanto Company, USA changed to M/s Bayer Crop Science LP, USA (Vide 428th RC)</p> <p>7. * M/s Shanghai Agrotree Chemical Co. Ltd., Room B515, No. 2250, South Pudong Road, Pudong New Area, Shanghai, China changed to M/s. FJ Agrochemicals Co. Ltd., Add. RM1113, B Building No. 2419, Hunan Road, Shanghai, China (approved by M/s Krishi Rasayan Exports Pvt. Ltd. (428th RC)</p> <p>8. * M/s CAC Nantong Chemical Co. Ltd., Fourth Huanghai Road, Yangkou Chemical Park, Rudong County, Nantong City, Jiangsu Province, P. R. China through supplier M/s Thai Harvest Limited, RM.G, BLK4, 13/F, Kwun Tong Industrial Centre, 432- 446, Kwun Tong Road, Kwun Tong KLN, Hong Kong</p>	<p>20. Cheminova Inida Ltd., Gujrat</p> <p>21. Sabero Organics Gujarat Ltd.</p> <p>22. Bharat Rasayan Ltd., Delhi (95%)</p> <p>23. Exel Industries Ltd., ROHA (Maharashtra)</p> <p>24. HPM Chemicals & Fertilizers Ltd., N. Delhi</p> <p>25. Best Crop Science LLP, Gajraula, UP</p> <p>26. Sonachi Industries Ltd. 95.0% min. 9(4)</p> <p>27. Samradhi Crop Chemicals, 95.0% min. 9(4)</p> <p>28. Sun Pesticides Pvt. Ltd. 95.0% min. 9(4)</p> <p>29. Hemani Industries 95.0% min. 9(4)</p> <p>30. Agrisol (India) Pvt. Ltd., 95.0% min. 9(4)</p> <p>31. Agrico Organics Ltd., New Delhi, 95.0% min. 9(4)</p> <p>32. Baroda Agro chemicals Ltd., Gujarat, 95.0% min. 9(4)</p> <p>33. M/s Aristo Biotech Life Science Pvt. Ltd., 95.0% min. 9(4), in 401st RC.</p> <p>34. M/s Ichiban Crop Science Ltd., 95.0% min. 9(4), in 405th RC.</p> <p>35. Maheshwari Biochemical Pvt. Ltd., Sirsa</p>
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			(approved by M/s Tropical Agrosystem (India) Pvt. Ltd. (428 th RC)	
51.	Halosulfuron Methyl 75% WG (FI-WRT), *97%min.	574	<ol style="list-style-type: none"> 1. M/s Nisan Chemical Industries Ltd, Kowa- Hitotsubashi Building, 7-1, 3-Chome, Kanda-Nishiki-cho, Chiyoda-Ku, Tokyo- 101-0054. Japan Through supplier M/s Nissei Corporation 10-5 Nihonbashi – Honcho-1Chome,Chou-ku, Tokoyo, Japan (By M/s Dhanuka Agritech Ltd., New Delhi in 349th RC Change to M/s Nisan Chemical Corporation, 5-1, Nihonbashi, 2-Chome, Chou-Ku, Tokyo (10136119), Japan. 2. *M/s Nissan Chemical Industries Ltd., Kowa Hitotsubashi Building, 7-1, 3-Chome, kanda-Nishiki Cho, Chiyoda-ku, Tokyo-101-0054 through supplier M/s Nissei Corporation, 10-5, Nihonbashi-Honcho, 1-Chome. Chuo-ku, Tokyo, 103-0023, Japan (approved by M/s Dhanuka Agritech Limited (428th RC) 	1. M/s Coromandel International Ltd. u/s 9(3) in 426 th RC meeting for 96% min.*
52.	Haloxypop R Methyl 10.5% EC (FI-WRT)		1. Dow Agro Sciences S.A.S.,B.P.20-8Route de Herrlisheim ,67410, Dusenheim, France (By M/s Dow Agro sciences IndiaPvt.Ltd Mumbai in 365 th RC)	
53.	Hexaconazole Technical 92% min.	476		<ol style="list-style-type: none"> 1. RallisIndiaLtd. 2. Heranba Industries Ltd.,Valsad 3. Tagros Chemicals India Ltd, Chennai 4. Gharda Chemicals Limited, Mumbai u/s 9 (4) in243rdRC 5. BharatRasayanLimited,NewDelhi 6. Punjab Chemicals & Crop ProtectionLtd

				<ol style="list-style-type: none"> 7. CrystalPhosphatesLtd 8. MegalInnovativeCropsPvt.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. SudarshanChemicalIndustriesLtd., Pune 19. BestCropScienceLLP,Gajraula, UP 20. HPM Chemicals &FertilizersLtd., N. Delhi 21. AmbeyLaboratoryPvt.Ltd.New Delhi 92.0% Min9(4) 22. Agrico Organics Ltd. NewDelhi,92.0% Min 9(4) 23. M/sHemaniIndutiresLtd92.0% Min9(4) 24. M/sAgr-EhTechnologiesPvt.Ltd., 92.0% Min 9 (4) in395thRC
54.	Hexazinone 13.2% + Diuron 46.8% WP	478	M/s E.I DuPont de Nemours and Company,USA with manufacturing address Van Diest Supply Co.,Webster City, Iowa, USA . (By M/s E.I Dupont India Pvt. Ltd, in 289 th RC)	. M/s Insecticides India Ltd.,(Diuron Technical),98% min,9(4), in 386 th RC
55.	Hexythiazox Technical,	504	1. Nippon Soda Co. Ltd., shin-OhtemachiBlg 2-1,2-Chome Ohtemachi,	1. Coromandel International Ltd., Secunderabadu/s 9 (3) in 306 th RC

			<p>Chiyoda-ku, Tokyo, Japan 87.0%Min (By M/s Biostadt India Ltd , Mumbai in 284thRC)</p> <p>2 Name of the Source changed from M/s Zhejiang Heben pesticide & Chemical Co. Ltd. Liandun Road, Houjing Village, Yanjiang Industrial Area, Yangyi Wenzhou, Zhejiang, P. R. Chinato Jiangu Heben Biochemical Co., Ltd. Yangkou Chemical, Area, Nantong, Jaingsu, China (by M/s Crystal Crop Protection Ltd. in 417thRC)</p> <p>3 Jiangu Runze Agrochemical Co. Ltd., No. 16, HouyangHuagong Yuan Qu Road, Jintan, Jiangu, China. valid upto May, 10.2020 through Supplier M/s. Willowood (Hangzhou) Co. Ltd., Room2003, Golden Plaza No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China. (by M/s willowood Chemicals Pvt. Ltd., KolkataTIV/sTIM97.0%Min.369thRC)</p>	
56.	Hydrogen cyanamide Technical 49% min. 50% SI Tech	576	<p>1. Nippon Carbida Ind. Co. Inc. NCL Bldg. No. 11-19-2-Chomeoconan Mineto 108- 8466, Japan.</p> <p>2. Degussa Ag, Postpach-1262, D-83303, Trostberg, Germany.</p> <p>3. AlzChemTrostbergGmbH, Postfach1 262, D -83303 trostberg, Germany.</p>	<p>1. Ruchichem, Pune</p> <p>2. Mauni Agro Chemical Industries Pvt. Ltd., Kopergaon.</p>
57.	Imazamox Technical 93% w/wmin.	641	BASF Corporation, Hannibal Plant, 3150 Highway JJ, Palmyra Missouri, USA 93.0% Min (By M/s BASF India Ltd., Mumbai in 362 nd RC)	

58.	Imazamox35%+Imazethapyr 35%WG (FI –WRT)	38	BASF Agriculture Products de PuertoRico RouteNo.2km47.3.P.O.Box43,Manati, PuertoRico006704USA(ByM/sBASF Indai Limited , Mumbai in 314 th RC)	
59.	Imazethapyr Technical 90% min, 93% min.*, 98% min **, 97.00% w/w min., 95% w/w min.,	480	1.BASF Corporation, Hannibal, Missouri, USA 2.American Cyanamid Company, Hannibal, Missouri USA (By ACCO IndustriesLtd.in 2000 year) 3.BASF Corporation, 14385 West Port,Arthur road, Route# 4, Box 327, Beaumont TX 99905, USA (90%min) 4. * M/s Milenia Agrociencias S/A, Londrina, Brazil 93.0 % min (BY MakhteshimAgan India Pvt. Ltd. in 329 th RC) 5.*ADAMA, Brazil S/A, Rua Antoniopedro de Souza, 400, Parque Rui Barbosa, 86031610, Londrina, PR Brazil (93%min.) 6. Shenyang Research Institute of Chemical Industry, No. 8, Shenliaodong Road, Shenyang, Liaoning Province, P.R. China. Through Supplier: Willowood Limited, 17 th Floor, Sea view Plaza, 283-Shau Kei WanRoad, ShauKeiWan,HongKong (By M/s Willowood Chemicals Pvt. Ltd 344 th RC New Source 90.0%min). 7. Jiangsu Flag Chemical IndustryCo. Ltd. Changfenghe Road, Nanjing Chemical Industrial Park, Luhe district, Nanjing, china-	1. AstecLifeSciencesLtd.Mumbai, u/s 9(3) ,97.0% min in 349 th RC 2. InsecticidesIndiaLtd.,Delhi, u/s 9(3) , 93.0% min in350 th RC 3. Best Crop Science LLP, 97.0% Min. 9(4) 4. M/s AgrowAlliedVenturePvt.Ltd 93% min 9(4) 5. AgricoOraganicsLtd NewDelhi 97% min 9(4) 6. GhardaChemicals Ltd Mumbai, 97% min 9(4) 7. MeghmanilIndustriesLtd.,97%min 9(4) 8. KrishiRasayanExports,New Delhi, 97% min 9(4) GSP Crop Science Pvt. Ltd., 97% min 9(4) 9. Maheshwari Biochemical Pvt.Ltd., Sirsra,9(4) 10. UPL Limited, Mumbai., 97% min 9(4) 11. M/s Godvari Farm Chemicals Industries Ltd., 93% min 9(4), in 394 th RC 12. M/s Shivalik Rasayan Ltd., 97% min 9(4), in401 st RC 13. M/s Ichiban Crop Science Ltd. u/s 9(4) in 421 st RC 14. M/sSahib Pesticides,93%min9(4), in405 th RCM/s Bhagiradha

		<p>210047. (By M/s Parijat Industries(I) pvt . Ltd. New Delhi in 344th RC 90.0% Min)</p> <p>8 **Shendong Cynda Chemical Co. Ltd., Economic Development Area, Boxing County, Shandong ,P.R.Chinaregdfor98% min through Supplier: Shendong Cynda Chemical Co.Ltd.,EconomicDevelopment Area, Boxing County, Shandong, P.R. China Valid upto 30.12.2020, 98.0% Min (By M/s Mghmani industries Ltd, Gujarat, 359thRC NewSource) and (By M/s Sharda Worldwide Export Pvt. Ltd., Mumbai in 365thRC)</p> <p>9 **M/s 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 pvt. Ltd. New Delhi in 344th RC 90.0% Min)</p> <p>10 BASF Agriculture Products de PuertoRico RouteNo.2 km 47.3.P.O.Box 43, Manati, Puerto Rico 006704, USA</p> <p>11. M/s Shenyang Sciencreat Chemical Co Ltd., Xihejiubei Street, 17,Shenyang Economy and Technology Development Zone, Shenyang, Liaoning, People's Republic of China (by BASF India Ltd, approved in 424th RC 97% min.)</p> <p>12 ** M/s weifang Cynda chemical Co. ltd. Add. No. 2 of east partial lingang</p>	<p>Chemicals & Industries Ltd.,93% w/w min. in 393rdRC.</p> <p>Industrial Zone, Zaoqiang Country, Hebei, China through supplier M/s Hebei Bestar Commerce and Trade Co. Ltd., 63-203, No. 66, Dianda Street Xihua, District Shijiazhuang, China Validupto12.11.2017(By M/s Crystal Crop Protection Pvt. Ltd., Delhi 98.0% min in 365th RC)</p>
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			chemical zone, Binhai economic development area, weifang Shandong, P.R. China. (supplier is same as manufacturer by applicant M/s Sharda worldwide export pvt. Ltd. 365 RC)	
60.	Imazethapyr Technical 95% min., 98% min.		<ol style="list-style-type: none"> 1. M/s ZIBO NAB Agrochemicals Limited North of High-Tech, Industrial Development Zone, Zibo, Shandong, China 25641000674 (by ADAMA India Ltd, approved in 423rd RC for 95% min.) 2. M/s Shandong Cynda Chemical Co. Ltd. (Economic Development Zone, Boxing County, Shandong, P. R. China) changed to M/s Liaoning Cynda Chemical Co. Ltd. (ADD: No. 88 of Street, Economic Development Zone, Huludao, Liaoning, P. R. China) (approved by M/s Meghmani Industries Ltd. in 427th RC for 98% min.) 	
61.	Imazethapyr 70% WG u/s 9(3).		1. BASF Agriculture Products de Puerto Rico Route No. 2 km 47.3. P. O. Box 43, Manati, Puerto Rico 006704 USA (By M/s BASF India Ltd., Mumbai in 343 rd RC)	
62.	Imidacloprid Technical 94% min., 95%min.	510	<ol style="list-style-type: none"> 1. Bayer Crop Science AG, Germany., change to M/s Bayer AG, Germany), (By M/s Bayer CropScience Ltd. 94% in 392ndRC) 2. Wuxian Pesticides Factory Jiagsu, China (By Jaishree Industries Ltd , New Delhi in 223rdRC) 	<ol style="list-style-type: none"> 1. CheminovaIndiaLtd.,Mumbai, u/s 9 (3) , in 220thRC 2. Excel Crop Care Ltd., Mumbai U/s 9 (3), 94.0% min in 230thRC 3. Nagarjuna Agrichem, Hyderabad , U/s 9 (3) , in 235thRC 4. Atul Ltd.,Valsad

		<p>3. Suzhou Bianzing Agro Biochemical Co. Ltd., Modu, Suzhou, Jiangsu, China</p> <p>4. Qingdao KYX Chemical Co., Ltd. Shuiji Industry Zone Laixi District, Qingdao, China, Zip-266071 (By M/s Mahamaya Life Science Pvt. Ltd, NewDelhi, 94.0% min in 354th RC)</p> <p>5. M/s Rudong Huasheng Chemical Co. Ltd. Yangkou chemical industrial park, Yanhai Jiangsuchina valid upto 10.10.2020</p> <p>Through Supplier: M/s Shenzhen Sushan Technology Co., Ltd. Room No. 2410, Block C Huangdu Plaza, Guangdong Province China (By M/s Krishi Rasayan Export Pvt.Ltd.)</p> <p>6. Hubei Sanonda Co. Ltd., 93 East Beijing Road, Jingzhou, Hubei, China, Change to M/s ADAMA Ltd., 93, East Beijing Road, Jingzhou, Hubei, China 434 001 through supplier M/s ADAMA Celsius B. V, Curacao Branch. (Valid upto 19.12.2019) (By M/s ADAMA India Pvt. Ltd. Telangana-in 408th RC.)</p>	<p>5. Rallis India, Bangalore u/s 9(3) approved in 216th RC)</p> <p>6. Gharda Chemicals Ltd., Mumbai, U/s 9 (3), in 248th RC</p> <p>7. United Chemicals, Hyderabad</p> <p>8. Krishi Rasayan Pvt.Ltd.</p> <p>9. Crystal phosphates Ltd.</p> <p>10. Shogun Organics Ltd., Mumbai</p> <p>11. Sudarshan Chemical Industries Limited, Pune</p> <p>12. Astec Chemicals Pvt Limited, Mumbai</p> <p>13. Tagros India Limited, Chennai</p> <p>14. Mitsu Ltd, Vapi</p> <p>15. Hyderabad Chemical Products Limited, Hyderabad</p> <p>16. PI Industries Limited, Gurgaon Coromandel International Ltd.</p> <p>17. Punjab Chemicals and Crop protection Ltd. Mumbai</p> <p>18. Salvi Chemical Industries, Mumbai</p> <p>19. Bharat Rasayan Ltd, New Delhi</p> <p>20. Insecticide India Ltd, Delhi</p> <p>21. Parijat Agencies, New Delhi</p> <p>22. Artee Graphite Pvt Limited, Faridabad</p> <p>23. Dhanuka Pesticide Limited, Gurgaon</p> <p>24. India Pesticide Ltd, Lucknow</p> <p>25. Chemtura Chemicals India Pvt</p> <p>26. Sharda Worldwide Exports Pvt Ltd</p> <p>27. Sabero Organics Gujarat Ltd</p> <p>28. Shogun Organics Ltd., Mumbai</p> <p>29. Hindustan Insecticides Ltd, New Delhi</p> <p>30. Hermaba Industries Ltd.</p>
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63.	Imidacloprid 2.15%Gel, 0.03%w/w*, 0.50% RB**	510	<p>1. **Bayer Environmental Science. 16 rue Jean-MarieLeclair69009Lyon, France (By M/s Bayer CropScience Ltd, 0.5% RB, in 336thRC)</p> <p>2. * M/s Bayer S.A.S.,</p> <p>3. **Denka International b.v. Netherland Through Supplier:Bayer Environmental Science S.A.S., Lyon, France (By**Bayer CropScience Ltd.,IndiaFI)</p> <p>4. Bayer Crop Science AG, Germany.,change to (M/s Bayer AG, Germany (By M/s Bayer Crop Science Ltd, in 2.15% Gel, in 392nd)</p>	<p>Bayer Crop Science Industrial Operations, Marle, France Through Supplier: Bayer S.A.S. Bayer Environmental Science, Lyon, France. (0.03% gel by M/s Bayer Crop ScienceLtd., Mumbai in366thRC)</p>

64.	1. Imiprothrin Technical 90%min. 2. Imiprothrin 50.0% MUP	608	Sumitomo Chemical Co Ltd., Japan (by M/s Sumitomo Chemical (I) Pvt Ltd.)	
65.	Indaziflam 1.65% w/w + Glyphosate- isopropylammonium 44.63% w/w SC FI-WRT import without registering Indaziflam Technical	808	M/s Bayer Crop Science AG ,Germany (By M/s Bayer Crop Science Ltd , Mumbai in 379 th / 380 th RC)	
66.	Indoxocarb Technical 66.8% min.	577	E.I. DuPont de Nemours & Co. Mobile plant, Agricultural Products Manufacturing Center, Highway, 43-Azis-Alabama 365058 USA.	1. Gharda Chemicals Ltd., Mumbai, 9(3) in 244th RC 2. Atul Ltd., Valsad (67%min), 9(3), in 251st RC 3. Hyderabad Chem. Prod. Ltd., Hyderabad 4. Bhagiradha Chemicals & Industries Ltd 5. Heramba Industries Limited 6. Insecticide India Ltd 7. Bharat Rasayan Ltd 8. Meghmani Organics Limited 9. Tagros Chemicals India Ltd 10. Sundew Life Science Pvt Ltd 11. Best Crop Science LLP, Gairaula, UP
67.	Indoxocarb Technical 67% min and 90% min	577	E.I. DuPont de Nemours & Co. Mobile plant, Agricultural Products Manufacturing Center, Highway, 43-Azis-Alabama 365058 USA. Through supplier M/s Du Pont International Operations Sarl, Chemin du Pavillion, 1218 le-Groung Sacromex, Geneva, Switzerland. (By E.I Dupont India Pvt. Ltd , 90.0% Min in 298 th RC)	1 .M/s Jai Shree Rasayan Udyog Ltd , 67% min 9 (4)
68.	Iprodione Technical	481	Bayer S.A.S, 16 rue Jean-Marie	

	95% min.		Leclair 69009, Lyon, France	
69.	Iprovalcarb Tech 95% min	653	Bayer Crop Science AG, Germany, (By Bayer Crop Science ltd in 29 th RC) Change to M/s Bayer AG, Germany (By M/s Bayer CropScience Ltd., 95% w/w min., in 392 nd RC).	
70.	Isoprothiolane Technical 96% min.	389	1. Nihon Nobyaku Co. Ltd.,Tokyo,Japan 2. Jiangsu Flag Chemical Industry Co.Ltd.Changhfenghe Road, Nanjing Chemical Industrial Park, china-210047 (By M/s Parijat Industries (IndiaPvt.Ltd.NewDelhi in 334 th RC) Luhe district,Nanjing,	1. Atul Ltd., Valsad, u/s 9 (3) in244 th RC 2. Meghmani Industries Ltd, Ahmedabad 4. Bayer Crop ScienceLtd.,Mumbai Best Crop Science Pvt. Ltd., 96% min.,9(4) 5. Bharat Rasayan Ltd., NewDelhi, 96% min.,9 (4)
71.	Isoproturon Technical 95% min.	348	1. Novartis Crop Protection, AG, Switzerland 2. Ventis Crop Science, GmbH, Frankfurt, Germany. 3. Bayer Crop Science AG,Germany, change to M/s Bayer AG, Germany, (By M/s Bayer Crop Science Ltd. 95% in 392 nd RC)	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.
72.	Kasugamycin Technical 64% min.	390	Hokko Chemical Industry Co. Ltd., Tokyo, Japan. Supplier-Arysta Life Science, Corporation,Tokyo	
73.	Kresoxim methyl Technical 95.0%Min,(TlvsFIM-WRT), Kresoxim methyl Technical 94% min. w/w. (TIM) *	761	M/s Anhui Huaxing Chemical Industry Co. Ltd., No. 6, Hongfeng Rodead, Hefei, P. R. China, P.C. 230088 , Fac Add. Wujiannng Town, Hexian County, Anhui	1. M/s Rallis India Ltd., 94% min TC. (TIM), u/s 9(3) in 394 th RC * (with shelf-life two year).

			P.R.China PC 238251 (Valid till 07.12.2019) (by M/s Parijat Industries (India) Pvt. Ltd approved in 404 th RC 95.0% Min with shelf-life one and half year)	
74.	Kitazin (Iprobenphos) Technical 94%min.	243	Kumaiai Chemical Industry Co. Ltd., Japan	P.I. Industries Ltd., Gurgaon
75.	Lambda cyhalothrin Technical 81% min. and 84% min. 97% min, 96.0 % min, 95% min.	405	<ol style="list-style-type: none"> 1. Syngenta PLC, Syngenta Agrochemicals, Fernhurst, Hasleme, Surrey, GU 27, England.(By SyngentaIndia Ltd, Mumbai) 2. M/s Shijiazhuang Richeim Co. Ltd., No.148 East Yuhua Road, Shijiazhuang, 050031, Hebei China 97.00% min (By M/s Crystal Crop Protection Pvt. Ltd , New Delhi in 359th RC) 3. M/s. Jiangsu Changlong Agrochemical Co., Ltd., No. 8, Tuanjiche Road, Economic Development District of Taixing. Jiangsu P.R. China. Through Supplier: M/s Willowood (Hangzhou) Co. Ltd., Room No. 2003, Goldenplaza, No.118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang province, China. valid upto 09.11.2019 96.0 % Min (By- Hebei Bestar Commerce and Trade Co. Ltd., 6-3-203 No. 66 Dianda Street Xinhua District Shijiazhuang, China valid upto 06th Aug 2022 97% min. 4. M/s Jiangsu Huifeng Agrochemicals 	<ol style="list-style-type: none"> 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. SudarshanChemical IndustriesLtd, M/s Willowood in 362th RC) Pune 15. Hyderabad ChemicalsProductLtd 16. Insecticide India Limited, New Delhi 17. ModernInsecticideLtd 18. HemaniIndustriesLtd

			Co. Ltd., Weier Road, South Area of Ocean Economic Development Zone, Dafeng, Jiangsu 224145, P. R. China through supplier M/s Nanjing Bodao Logistics Co. Ltd., B#35, No. 420, Wangxin Road, Luhe District, Nanjing, P. R. China (approved 95% min. by M/s Parijat Industries (India) Pvt. Ltd. in 426 th RC meeting)	19. Tagros Chemicals India Ltd, Chennai(84%) 20. HPMChemicals&FertilizersLtd., N.Delhi 21. Best Crop ScienceLLP,Gajraula, 22. AgricoOrganicsLtdNewDelhi9 (4). 23. KrishiRasqayanExportPvt.Ltd. 84.0% Min.9(4) 24. Crystal Crop ProtectionPvt.Ltd.,
76.	1.Lambda-Cyhalothrin 22.8% CS, 2. Lambda- Cyhalothrin 9.7% w/w SC*	405	1. Syngenta chemicals B.V. Rue de Tyberchamps,37,B-7180Seneffe,Belgium (By Syngenta Crop Protection Ltd in 269 th RC) 2. *M/s. Syngenta Chemical B.V. Belgium, Seneffe,Belgium(M/sSyngentaIndia Ltd., Pune in 366 th RC)	
77.	Lime Sulphur	70	To be informed.	
78.	Lufenuron Technical 96% min.& 98% Min.*	538	1. Syngenta Grimsby Ltd, Pyewipe, Monthey, Switzerland. (by M/s Syngenta India Ltd , Mumbai in 251 st RC) 2. *ShijiazhuangRichemCo.Ltd.,No.148 Yuhua Road, Chang AN Dist. Shijia Zhung, China. Valid upto 03.06.2019 (By M/s Crystal Crop ProtectionPvt.Ltdpurity98.0%min.in375 th RC)	
79.	Magnesium Phosphide 56.0 % min (Degesch Plates)	349	M/s Detia Frey Berg GmbH, Dr. Werner Freybergstra, Be.11,D-69514.Landenbach, Federal Republic of Germany (By M/s South IndiaanMafs	

			Agencies Chennai in 257 th RC)	
80.	Malathion Technical 95% min.	72	CheminovaDenmarkA/s,POBox9 ,DK- 7620, Lemvig,Denmark.	1. Cyanamid India Ltd.,Mumbai 2. Hindustan InsecticidesLtd.,Delhi 3. RallisIndustrialChemicalsLtd., Ankleshwar. 4. CoromandelInternationalLtd. 5. Excel Crop CareLtd.,Mumbai 6. ShivalikRasayanLtd.
81.	Mancozeb Technical 85% min.,	249	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)Co mpany Ltd.China 9. Rohn & HaasCo.,USA	1. Indofil IndustriesLtd,Andheri(E) 2. MerchemLtd.,Cochin 3. United PhosphorusLtd.,Mumbai 4. SaberoOrganicsGujaratLtd. 5. HindustanInsecticidesLtd. 6. RallisIndiaLtd. 7. Punjab Chemicals & Crop ProtectionLtd. 8. IndogulfCropSciencesLd.,Delhi, 85% min.9(4)
82.	Mandipropamid tech 93% min.	763	Syngenta Crop Protection AG, Munchwilen, Monthey, Switzerland (By M/s Syngenta India Ltd ,Pune in 318 th RC)	
83.	Mandipropamid 5.0% + Mancozeb 60.0% WG(FI)	763	M/sSyngentaProductionfranceSAS, 55, Ruedue Fond Austria Du Val, F-27600 St- Pierre-La Garenne, France. (By M/s Syngenta India Ltd ,Pune in 380 th RC)	
84.	Mepiquat chloride Technical 50% TK min.	540		GhardaChemicalsLtd.,Mumbai/s(9(3)in238rd RC
85.	Meptyldinocap technical 90% w/w min	785	M/s Dow Agro Sciences Italia S.R.L. Socio Stabilimentodi Mozzanica S.S11km, 190,224050 Mozzanica, (Bergamo) Italia	

			supplier same as source (By M/s Dow Agro Science India Pvt. Ltd. Mumbai in 378 th RC)	
86.	Mesosulfuron Methyl 3% + Iodosulfuron Methyl Sodium 0.6% WG (FI-WRT)	655 656	Bayer Crop Science AG, Germany., (By M/s Bayer Crop Science Ltd in 256 th RC) change to M/s Bayer AG, Germany (By M/s Bayer Crop Science Ltd., 0.6% WG in 392 nd RC.)	
87.	Mesotrione Technical 74% wet basis (on theoretical dry weight basis, the purity is 94% w/w min.)	837	M/s Syngenta Crop Protection Monthey AG, Route de Lile au Bois, CH1870, Monthey, Switzerland (by M/s Syngenta India Ltd. In 413 RC)	
88.	Metaflumizone 22% SCFI-WRT)	704	1. BASF Sparks, 14284 Highway 41 North, Sparks, Georgia-USA (By M/s BASF India Ltd in 301 st RC)	
89.	Metalaxyl Technical 90% min.	365	Syngenta Produkte AG, Switzerland	<ol style="list-style-type: none"> 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 Chemicals Pvt Limited, Mumbai 10. Rotam India Ltd, Mumbai 11. Insecticides India Ltd 12. Crystal Phosphates Ltd, Delhi 13. Mega Innovative Crops Pvt Ltd, Ankleshwar. 14. Punjab Chemicals & pharmaceuticals Ltd., Chandigarh. 15. HPM Chemicals & Fertilizers Ltd., N.

				Delhi
90.	Metaxyl-M Technical 90% min., *94% min.	620	M/s.CABBAGDungerstrasse81,P OBox1964, CH-4133, Prattein, Switzerland (By Syngenta India Ltd., Mumbai in 261 st RC)	1. M/s Punjab Chemicals ProtectionLtd & Crop, Mumbai 2. M/s Indofil Industries Ltd. u/s 9(3) approved in 427 th RC for 94% min.*
91.	Metaldehyde Technical 98% min.	77	1. Lonza Ltd. Dept-2, METABasel, Switzerland 2. B.P. Chemical Ltd., Piceadilly,London	Pesticide India, Udaipur
92.	Metamifop Technical 96%min.	780	M/s Dongbu Hamng, #891-10 Daechidong, Gangnam-gu, Seoul 135- 523, Korea Supplier: FMC Corporation Agricultural Products Group 1735 Market street Philadelphia, PA 19103,USA (By M/s FMC India Pvt. Ltd. Bangalore in 384 th RC)	
93.	Metiram Technical 84% min, *90% min.	257	BASFSE,ProductionCropPro tection,Carl- Bosch-Strasse 38, 67056 Ludwigshafen, Germany (By M/s BASF India Ltd. in 366 th RC)	1. M/s Crystal Crop Protection Ltd. u/s 9(3) in 426 th RC meeting for 90% min*.
94.	1. Metiram70.0%WG 2. Metiram 55% + Pyraclostrobin5%WG 3. Metiram 44.0 % + Dimrthomorph 9.0 % WG*	257 659	1. BASFAktiengesellschaftProduction CropProtection 67056 Ludwigshafen, Germany 70.0%WG (By M/sBASFIIndiaLtd,Mumbaiin251 st R C) 2. BASF SE, Production Crop Protection,carl- Bosch- Strasse38,67056Ludwigshafen,Ger many (By M/s BASF India Ltd in 301 st RC) 3. * M/s BASF SE, Carl-Bosch- Strasse 3867056 Ludwigshafen, Germany (By M/s BASF India	

			Ltd Mumbai , in 378 th RC)	
95.	Metofluthrin Tech 93% min	702	Sumitomo chemicals co. Ltd., Japan Trough supplier: M/s Sumitomo Chemical Singapore Pte Ltd., Singapore (by M/s Sumitomo Chemical (I) Pvt. Ltd Mumbai in 348 th RC)	
96.	Metrafenone 500g/ISC(FI- WRT) import	797	M/s. BASF Agri Production S.A.S, Zone Industrielle Lyon Nord Rue Jacquard 69727 Genay Cedex, France. (By M/s BASF India Ltd. in 366 th RC)	
97.	1. Metsulfuron methyl Technical 93% min. 96% min. 2. Metsulfuron Methyl 20% WG* 3. Metsulfuron methyl 10% w/w + Carfentrazone Ethyl 40% w/w DF**	441	1. Rotam Crop Science Ltd., China 2. DuPont Agriculture Caribe Industries Ltd. DACI Highways Manati Puerto Rico. 3. Du Pont Agriculture Chemicals Ltd., Shanghai, Pudong Shanghai, China. 4. * PT DuPont Agricultural Products Indonesia, Beltway Office Park Building Alt. 5, Jl. Ampera Raya 9-10, Jakarta, 12550, Indonesia (By Nagarjuna AgriChem Ltd, Hyderabad , 20% WG in 301 st RC) 5. ** M/s DuPont de Nemours (France) S.A.S., 82 Rue de Wittelsheim BP9, F- 68701 Cernay, Cedex, France through supplier M/s DuPont International Operations Sarl, Chemi du Pavillon 2 CH-1218 P.O. Box 50: Le Grand-	1. Atul Ltd., Valsad, U/S 9(3) technical in 235 th RC 2. GSP Crop Science Pvt. Ltd., Ahmedabad 3. Siris Crop Science Limited, New Delhi 4. Indofil Industries Ltd, Andheri (E) 5. Meghmani Industries Limited 6. Punjab Chemicals and Crop Protection Pvt Limited 7. Sharda Worldwide Pvt Limited 8. Insecticides India Ltd. 9. Hindustan Pulversing Mills, Delhi 10. Bharat Rasayan Ltd., Delhi 11. Shahib Pesticides, Karnal, 93% min., 9(4) 12. Crystal Phosphates Ltd, Delhi. 13. M/s Best Crop Science LLP, 93% min., 9 (4) in 393 rd RC 14. M/s Godavari Farm Chemical Industries Pvt. Ltd, 93% w/w min. 9(4), in 407 th RC.

			Sacommex, Geneva, Switzerland. Valid upto 2020 (by M/sE. I. DuPont India Pvt. Ltd., Gurgaon in 363 rd RC)	
98.	Methabenzthiazuron Technical 90%	325	1. Bayer Crop Science A.G.,Germany,(byBayer CropScience Ltd., IndiaTI) 2. AgrimontSPA,Italy.	
99.	Methomyl Technical 98% min.	255	1. E.I. Dupont de Numerous & Co. Inc., USA (By M/s Coromandel Indag Product India Ltd , CR issued in1990) 2. Jiangyin Rotam Chemicals Co. Ltd., Qingyang Town, Jiangyin, Jiangsu Province , China. (By M/s Rotam India Ltd in 223 rd RC)	
100.	Methoxyfenazide 21.8% w/w SC		M/sDowAgroSciences,Switzerlan dS.A. validupto31.01.2020(ByM/sDow Agro ScienceIndiaPvt.Ltd.Mumbaiin388 th RC)	
101.	Methyl bromide Technical 99%min min. & 98% min.	81	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. ELF 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

102.	Methyl Chlorophenoxy Acetic Acid (MCPA)	75	1. Name and address of source changes from M/s Trust Crop Protection Technology Company Ltd. No. 168, South Zhaoqiao Road, Nanjing Chemical Industry Park Zone, Nanjing – 210047 to Sunrise Crop Science Co. Ltd., Address NO. 8, Liwan Road, salt chemical new material industry park, Huaian, Jiangsu, P.R. China (by M/s Anu Product Ltd. in 418 th RC)	
103.	Metiram M 70% WG & 98% min Technical*	257	1. BASF Aktiengesellschaft Production Crop Protection 67056 Ludwigshafen, Germany 2. *M/s BASF SE, Carl-Bosch-Strasse 38, D-67056, Ludwigshafen, Germany	
104.	Metolachlor Technical 95% min.	407	Novartis Crop Protection, AG, Switzerland.	
105.	Metamitron Technical 98.00% w/w min. (w/w)		-	1. M/s Punjab Chemicals & Crop Protection Ltd., Mumbai, 98% min (w/w) (TIM) 9(3), in 387 th RC
106.	Metoxuron Technical 97% min.	258	Novartis Crop Protection, AG, Switzerland	Atul Ltd., Valsad
107.	Metribuzin Technical 88% min., 95% w/w Min.	350	1. Bayer Crop Science LP, 8400, Hawthorn Road, Kansas City, MO 64120, USA (in 232 RC) (By Bayer Crop Science Ltd., India TI) 2. Miles Inc., USA 3. Bayer Crop Science AG, Germany., change to M/s Bayer AG, Germany)	1. Rallis India Ltd., Mumbai 2. Meghmani Industries Ltd. 3. Siri Crop Science Limited, New Delhi 4. Punjab Chemicals and Pharmaceutical Ltd, Chandigarh 5. Ravi Organics Ltd 6. GSP Crop Science Pvt Ltd.

			<p>(By M/s Bayer Crop Science Ltd, 95% in 392nd RC.</p> <p>4. Changzhou Wujin Henglong Pesticide Co. Ltd., Commercial Development zone, Ximenboyi Town, Changzhou City, Jiangsu, P.R. China through supplier – M/s. Willowood Ltd. 17-F, Seaview Plaza, 283 Shau Kei Wan Road, Hong Kong, 88.0% min (By M/s Willowood Agro Chem Pvt. Ltd. Bikaner Raj. In 335th RC)</p> <p>5. M/s Hebei Xingxing chemical Industries Co. Ltd., Songlindian, Zhuozhou, Hebei, China. Through Supplier: M/s Hebei Bestar Commerce and Trade Co. Ltd., No. 6-3-203, No. 66, Dianda Street Xinhua District Shijiazhuang, China. (Valid upto- 12/12/2022) (By- M/s Crystal Crop Protection Pvt. Ltd., Delhi, 95% w/w min. (TI vs TIM) in 405th RC.)</p>	<p>Ahmedabad</p> <p>7. Bharat Rasayan Ltd., Delhi</p> <p>8. Coromandel International Ltd.</p> <p>9. Best Crop Science LLP, Gajraula, UP</p> <p>10. Atul Ltd., Valsad, 88% min 9(4)</p> <p>11. Jai Shree Rasayan Udyog Ltd., 88% min 9(4)</p> <p>12. Hindustan Pulverising Mills, Delhi, 88% min 9(4)</p>
108.	Milebemectin 1% EC (FI-WRT)	658	Sankyo Agro Co. Ltd., Tokyo Japan supplied by Mitsubishi Corpn., Tokyo, Japan (by Nagarjuna Agrichem in 244 th RC)	
109.	Monocrotophos Technical 74% min. & 68% min.	262	<p>1. Shen Hong Agril Chemical Co. Ltd., Taiwan.</p> <p>2. Shell International Chemical Co. Ltd., USA</p> <p>3. Shell International Chemical Co.</p>	<p>1. Cheminova India Ltd., Mumbai</p> <p>2. De-Nocil Crop Protection Ltd., Mumbai.</p> <p>3. Coromandel International Ltd.</p> <p>4. Secunderabad Hindustan Insecticides</p>

			<p>Ltd.,UK.</p> <ol style="list-style-type: none"> 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 	<p>Ltd.,Delhi..</p> <ol style="list-style-type: none"> 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
110.	Myclobutanil Technical 90%min.92%min,95%w/w min.	427	<ol style="list-style-type: none"> 1. Dow AgroScience,Italy. 2. M/s Yifan Biotechnology Gram Co. Ltd. No. 136, Zhongxin Road, Wenzhou Industrial Zone, Zhejiang Province China. Through Supplier: M/s Willowood (Hangzhou) Co. Ltd., Room No.2003, Golden Plaza, No.118, QingchunRoad,XiachengDistrict,Han gzhou City, Zhejiang Province China. (valid upto- 23/10/2018) (By- M/s Willowood Chemicals Pvt. Ltd., 95% w/w min., (TlvsTIM)u/s9(3), Kolkata in393rdRC) 	<ol style="list-style-type: none"> 1. Nagarjuna Agrichem Ltd., Hyderabad u/s 9 (3) in291stRC 2. IndofillIndustriesLtd.,Andheri(E), Mumbai 3. Meghmani Industries Ltd, Ahmedabad 4. M/s Bonageri Crop Science Ltd. 92% min. 9 (4) 5. Krishi Rasayan Export Pvt. Ltd., New Delhi 92% min. 9(4) 6. Astec Life Science Ltd., Mumbai, 92% min. 9 (4)
111.	Novaluron Technical 96%min.,	621	<ol style="list-style-type: none"> 1. Makhteshim Chemicals Works Ltd.,P.O.Box 60,Beer, Sheva, 84100 - Israel (By M/s MakhteshimAganIndiaPvt.Ltdin326thRC a case for deemed registration subsequentto registering of its formulation for import 	<ol style="list-style-type: none"> 1. United Phosphorous Ltd. Vapi (Gujarat)u/s 9 (3) in309thRC 2. BestCropScienceLLP,Gajraula, UP

			without registering its Technical – under section 9(3).)	
112.	Novaluron 10% EC, 8.8% SC &	621	1. Makhteshim Chemicals Works Ltd., P.O. Box 60, Beer, Sheva, 84100– Israel (By M/s Indofil Chemical Company, 10.00% EC in 252 nd RC)	
113.	Neem Extract Concentrate Containing Azadiractin Technical 25% w/w min.	485		<ol style="list-style-type: none"> 1. National Tree Grower Co-op Fed. Ltd 10.0% u/s 9(3) in 220th RC 2. P. J. Margo (P) Ltd, Bangalore 15.0% in 232nd RC 3. Ms E. I. D Parry (I) Ltd., 1.0% u/s 9(3) in 262th RC 4. M/s SJS Biotech International, 25% w/w min. 9(4) in 390th RC.
114.	Orthosulfamuron 50% WG (FI-WRT)	758	Isoagro SPA Sentro Uffiei San Siro Fabricato D-ala3, Via Caldera-21, 20153, Milano (Italy) (By Isagro (Asia) Agro Chemicals, Mumbai in 322 nd RC)	
115.	Oxadiazyl Technical 96% min.,	542	Bayer, S.A.S, 16 rue Jean-Marie Leclair 69009, Lyon, France (By M/s Rohne Poulenc Agro Chemical (I) Ltd, Mumbai TI)	Bayer Crop Science Ltd., Mumbai u/s 9(3) in 256 th RC
116.	Oxadiazon Technical 92% min.	366	Bayer S.A.S, 16 rue Jean-Marie Leclair 69009, Lyon, France (by Bayer India Ltd., Mumbai TI)	
117.	Oxathiapiprolin Technical 95% w/w min.	835	Saltigo GmbH, 51369 Leverkusen, Germany a designated manufacturer of E. I. DuPont de Nemours and Company, Wilmington, Delaware USA Through Supplier: M/s DuPont	

			International Operations Sarl Chemin du Pavillon 2CH- 1218;Le Grand-Saconnex Geneva, Switzerland)(By- E.I.DuPontIndiaLtd., Gurgaon in 386 th RC)	
118.	Oxathiapiprolin 10.1%w/w OD	835	DuPontdeNemours(France)S.A.S. 82rue de Wittelsheim BP9 F- 68701 CernayCedex France E.I. DuPont India Ltd., Gurgaon in 386 th RC)	through Supplier: DuPont International Operations Sarl Chemin du Pavillon 2 CH-1218; P.O. Box50 Le Grand Saconnex Geneva, Switzerland(ByM/s
119.	Oxycarboxin Technical 97% min.	274	Uniroyal chemical Co. INC., USA	
120.	Oxydemeton-methyl Technical 50% min.	78	Bayer AG, Germany.	
121.	Oxyfluorfen Technical 70% min.		1. Dow AgroScience,USA 2. ADAMA AaganLtd.P.O.B.262,Ash dod, Israel.	
122.	Oxyfluorfen Technical 97% min.	367	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, Qingchun Road, Xiacheng district, Honzhou City, Zhejiang Province, China. (By M/s Tropical Agro system (india) Pvt. Ltd , Chennai in 349 th RC) 2. Shangyu Nutrichem Co. Ltd., No. 9Weijiuroad, Hangzhou Gulf Fine Chemical Zone, Zhejiang, 312369, China through same supplier name. (validity of the source 19.11.2023)	M/s Best Crop Science LLP approved in 425 th RC

			97.0% min(By M/s Dow Agrosciences India Pvt. Ltd., Mumbai in 363 rd RC) 3. M/s Jiangsu Zhongyi chemical Co. Ltd. Industrial Zone, Change to M/s Jiangsu Lulilai Co., Ltd. Add No. 2, Shugang Road, Xiangshui Eco-Chemical Industries Park, Jiangsu Province, China. (valid upto-25/06/2022)(By-M/s Crystal Crop Protection Pvt. Ltd., in 395 th RC.)	Shuanggang Town, Xiangshui country, Jiangsu, China, Through supplier as M/s Chongqing Shining Fine Chemical Co., Ltd., 28-3C Cite Commerce No. 5 to Yanghe San Cum Jiangbei District Chongqing, China.. (By M/s Crystal Crop protection Pvt. Ltd in 35 th 4 RC)
123.	Paclobutrazol Technical 95% min.	505	1. Jiangsu Sword Agrochemicals Co.Ltd, No.1008, East Guanhua Road, Jianhu County, China Supplier: Chongqing Shining Fine Chemical Co. Ltd, China (By M/s Excel Crop Care Ltd. Mumbai in 95.0% Min in 327 th RC)	1. Cheminova India Ltd . 95%. 9(3) in 365 th RC 2. M/s GSP Crop Science Pvt. Ltd., 95% min. 9(4) in 397 th RC 3. M/s Best Crop Science LLP., 95% min. 9(4) in 407 th RC
124.	Paclobutrazol 23% SC (FI)	505	1. Syngenta Agrochemicals, Fernhurst Haslemere, Surrey, UK 2. PGR International Pty Ltd., 4, Dairy Road, Werribee, Vic. 3030, Australia (By M/s PNP & Associates Pvt. Ltd., Faridabad in 326 th RC)	
125.	Paraquat dichloride Technical 40% min., 42% min. (418 RC) *	275	1. Comlets Chemical Industrial Co. Ltd., Taiwan. (With purity of the product 40.0% Min) 2. Syngenta Limited, Huddersfield, West Yorkshire HD2 1FF, United Kingdom (by Syngenta India, Mumbai) 3. * Sinon Corporation, Regd. Office	1. Crystal Phosphate Ltd., New Delhi 2. United Phosphorus Ltd., Mumbai

			<p>1 FL., No.23,Sec1,MeiChuanW.Rd.,Taichung, Taiwan, ROC.(Validupto25.07.2023) {Factory address 101, Nanrong Rd., Ta Tu District, Taichung City, 43245, Taiwan, Taiwan (Supplier: Sinon Corporation, Taichung) . (With purity of the product 42.0%Min) (By M/s United Phosphorus Ltd. Mumbai in 319th RC)</p> <p>4 M/s Jiangsu Noon Crop Science Co. Ltd., Add. North of Xujia fast-track Xujhou Industrial Park, Jiangsu China through supplier M/s- F. J. Agrochemicals Co.Ltd. Add. 1113, No. 13, Lane 2419, Hunan Road, Pudong, District Shanghai, P. R. China (by M/s Anu Product Ltd in 418th RC)</p>	
126.	Penconazole Technical 95% min.	429	Syngents Produkte AG, Switzerland	
127.	Pendimethalin Technical 90% min.	368	BASF Corporation, Hannibal, Missouri, USA	<ol style="list-style-type: none"> 1. ShivalikRasayanLtd.,NewDelhi 2. SirisCropScienceLtd.,NewDelhi 3. Punjab Chemicals & Crop ProtectionLimited,Chandigarh 4. MagmaIndustriesLtd 5. Heranba Industries Limited, u/s 9(4),in277th 6. United Phosphorus Limited, Mumbai

				<p>7. MegmaniIndustriesLtd. 8. Bharat RasayanLtd.,Delhi 9. RallisIndiaLimited 10. GSP Crop Science Pvt. Ltd. Ahmedabad 11. Coromandal International Ltd. 90.0% Min.9(4) 12. M/s Hindustan Insecticides Ltd. 90.0% Min.9(4) 13. M/s Crop Life Science Ltd., Ankleshwar, 90.0% Min. 9(4) 14. M/sCoromandalAgricaoPvt.Ltd., 90.0% Min.9(4) 15. JaiShreeRasayanUdyogLtd.,New Delhi 90.0% Min.9(4) 16. M/s Godavri Farm Chemical Industries Ltd., 90.0% Min. 9 (4)in 395thRC. 17. M/s Crystal Crop Protection Ltd., 90.0% Min. 9 (4) in397thRC. 18. M/s Himani Industries Ltd., 90.0% Min. 9 (4) in393rdRC.</p>
128.	Pendimethalin 38.7% CS,	368	BASF Corporation, Agricultural Products Group, Hannibal Plant, 3150 Highway, JJ, Palmyra, Missouri, USA (by M/sBASF India ltd, Mumbai in 296 th RC)	
129.	Penycuron Technical 97.5% min	610	1. Bayer Crop Science AG, Germany., (By M/s Bayer CropScience Ltd in 268 th RC) change to M/s Bayer AG, Germany (By M/s Bayer CropScience Ltd.97.5% in 392 nd RC.)	
130.	Penflufen Technical 95% min.	806	M/s.BayerCropScienceAG,Germany,(By	

	w/w under TI category		M/s Bayer Crop Science Ltd, Thane in 369 th RC) Change to M/s Bayer AG, Germany, Valid upto January, 31, 2024. (By M/s Bayer Crop Science Pvt. Ltd. 95% min, in 392 nd RC)	
131.	Penoxsulam Technical 97.0% min	747	M/s Dow AgroSciences LLC. Dow AgroSciences assets, Midland, Michigan 48667(USA) through Supplier: M/s Dow AgroSciences LLC, 9330 Zionsville Road, Indianapolis, Indiana 46268, USA (by M/s Dow Agro Science India Pvt. Ltd., Mumbai in 368 th RC)	Crystal Crop Protection Pvt. Ltd., 98% min. (TIM vs TIT) under section 9(3) in 378 th RC
132.	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***	747	1. Dow AgroSciences LLC, 9330 Zionsville Road, Indianapolis, IN 46268, USA. 21.7% SC (By Dow Agro Sciences Pvt Ltd in 340 th RC) 2 *Dow AgroSciences LLC, 9330 Zionsville Road, Indianapolis, IN 46268, USA. 50.0% MUP (By Dow Agro Sciences Pvt Ltd in 394 th RC) 3 * *PT Dow AgroScience Indonesia, Ji Sisingamangaraja KM 9.5 Medan, 20148. North Sumatra, Indonesia 2.67 % OD (by M/s Dow AgroSciences India Pvt. Ltd., Mumbai in 369 th RC) 4 ***PT Dow AgroSciences Indonesia, Ji Sisingamangaraja KM.9.5 Medan, 20148. North	

			Sumatra, Indonesia, Valid upto 12.12.2020 (by M/s Dow AgroSciences IndiaPvt.Ltd.,Mumbaiin369 th RC).	
133.	Permethrin Technical 92% min.	335	Mitchell Cotts Chemicals Ltd., UK.	<ol style="list-style-type: none"> 1. BayerVapiPvt.Ltd.,Vapi,Gujarat 2. CoromandellInternationalLtd. 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. 9(4) 13. M/s Shogun Organics Ltd,9(4), in 386thRC
134.	HDPE Long Lasting Net incorporated with Permethrin 2% w/w	335	M/s Sumitomo Chemical Company ltd , Tan Dong Help Ward, Di An district , Binh DuongProvince,VietnamthroughS upplier M/s sumitomo Chemical Singapore Ptelid, 150, Beach Road, 19-05 Gateway West, Singapore 189720(By M/s Sumitomo Chemical India Pvt. Ltd., New Delhi for grantofregistrationforimportofunde r section 9(3).in 334 th RC)	
135.	Phenthoate Technical 90% min., 92% min.	277	<ol style="list-style-type: none"> 1. AgrimontSPA,Italy. 2. Nissan Chemical Industries 	<ol style="list-style-type: none"> 1. CoromandellInternationalLtd. 2. SudarshanChemicalIndustriesLtd.,

			Ltd.,Kowa, Hitotsubashi Building, Chiyode- Ku,Tokyo, Japan(97%).	Pune
136.	Phosalone Technical 93% min.	279	Rohan Poluenc Agrochemie, France.	1. RalchemLtd., Hyderabad. 2. Cheminova India Ltd.,Bangalore
137.	Picoxystrobin Tech 93%min, *96% min.	796	Dupont Asturias, SL, Valle De Tamon, - Nubledo,Municipios, Pvt. Ltd. In 347 th RC)	1. M/s Coromandal International Ltd., 93% min. 9(3), (TIM vs TIT) in 401 2. M/s Crystal Crop Protection Ltd. u/s 9(3) in 426 th RC meeting for 96% min.
138.	Picoxystrobin 22.52 SC	796	Dupont de Numorous (France) S.A.S 82, Rue de Wittelsheim, B P9, F-68701, Cedex, France Through supplier: M/s Du pont International Operations Sarl Chemindu Pavillon 2, CH- 1218, Le Grand-Seconnex, Geneva, Switzerland (by E.I Dupont (India Pvt. Ltd. In 347 th RC)	
139.	Pinoxaden tech 95.0% Min	712	1. Syngenta Grangemouth Works, Earls Road, Grangemouth, UK (By M/s Syngenta India Ltd in 311st RC) 2. Zeneca CI, UK.	1. M/s Insecticides India Ltd. u/s 9(3) approved in 427 th RC
140.	Pirimiphos-methyl Technical 90% min.	132	Syngenta Limited, UK.	
141.	Polyoxin D Zinc salt 5% SC (FI- WRT)		1. M/s Kaken Pharmaceutical Co., Ltd 28-8, Honkomagome 2-chome, Bunkyo-ku, Tokyo 113-8650, Japan (approved by M/s PI Industries in 427 th RC)	
142.	Prallethrin Technical 90% min.	430	1. Sumitomo Chemical Co. Ltd., 15-5, Chome, Kitahama- Higashi- Ku Osaka, Japan	2. Sumitomo Chemicals India Pvt. Ltd, Mumbai 3. Shogun Organics Limited, Mumbai 4. Manakshia Ltd, Mumbai

				<p>5. M/s Synergia Science Pvt. Ltd. 90.0%, 9(4) in 343th</p> <p>6. M/s Insecticides India Ltd, Delhi/s 9 (4) in 333rd RC</p>
143.	<p>Pretilachlor Technical 94% min., 96% min (414), 97% min.</p>	431	<p>1. Syngenta Produkte AG, Switzerland</p> <p>2. Hangzhou Qingfeng Agrochemicals Co. Ltd. Formerly known as - (Hangzhou General Pesticide Plant) No 177, Jichang Road, Hangzhou, China through Supplier: Willowood Ltd., unit 2314, Wellborne, Commercial Center 8, Java Road, North Point, Hongkong (By M/s willowood AgroChem Pvt. Ltd. Bikaner, (Raj.) in 238th RC)</p> <p>3. M/s Shangdong Binnong Technology Co. Ltd 518, Yongxin Road, Binwei Town, Bigzhou City, Shandong province China through supplier same as source (By M/s Mahamaya Life Sciences Pvt. Ltd, New Delhi in 391/392nd RC)</p> <p>4. M/s Nantong Weilike Chemical Co. Ltd., Yangkou Road, 4th, Yangkou Industrial Park, Rudong Country, Jiangsu Province, China through supplier M/s- Willowood (Hangzhou) Co. Ltd. Room No. 2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (by M/s Willowood Chemicals Pvt Ltd in 414th RC)</p> <p>5. M/s Shandong Qiaochang</p>	<p>1. Nagarjuna Agrichem Ltd., Hyderabad. u/s 9 (3) in 220th RC</p> <p>2. GSP Crop Science (P) Ltd., Ahmedabad</p> <p>3. Hyderabad Chemical Product Limited, Hyderabad</p> <p>4. Siris Crop Science Limited, New Delhi</p> <p>5. Atul Limited, Vapi</p> <p>6. Sudarshan Chemical Industries Ltd, Pune</p> <p>7. United Phosphorus Ltd</p> <p>8. Chemtura Chemicals India Pvt. Ltd</p> <p>9. Crystal phosphate Limited</p> <p>10. Meghmani Industries Limited</p> <p>11. Indofil Industries Ltd., Andheri (E), Mumbai</p> <p>12. Ravi Organics Ltd</p> <p>13. Deccan Fine Chemicals (India) Ltd.,</p> <p>14. Insecticides India Ltd</p> <p>15. Punjab Chemicals and Crop Protection Ltd., Mumbai</p> <p>16. Bharat Rasayan Ltd., Delhi HPM Chemicals & Fertilizers Ltd., N. Delhi</p> <p>18. Best Crop Science LLP, Gajraula, UP (96% min) 9(4)</p> <p>19. Samardhi Crop Chemicals Ltd. 96.0 % min. 9(4),</p> <p>20. Agrico Organic Ltd, 96.0% min. 9 (4),</p>

			Chemical Co. Ltd., South of Xinyongshen Road, Binbei, Bincheng District, Binzhou City, Shandong, China through supplier M/s Shanghai Agrotree Chemical Co. Ltd., Room 712, The Barony Wanyuan Hotel, No. 599, Pudong Avenue, Shanghai, China (by M/s Krishi Rasayan Exports Pvt. Ltd. In 41 th RC)	<ol style="list-style-type: none"> 21. Bhagiradha Chemicals & Industries Ltd., Hyderabad. 96.0% min. 9(4) 22. Excel Phosphates Ltd., Meerut. 96.0 % min. 9 (4). 23. M/s Mahamaya Life Sciences Pvt. Ltd. Delhi (TIT vs TIM)
144.	Profenophos Technical 89% min.	487	<ol style="list-style-type: none"> 1. Syngenta Produkte AG, Switzerland (By M/s Syngenta, Mumbai) 	<ol style="list-style-type: none"> 1. P.I. Industries, Udaipur. 2. Nagarjuna Agrichem Ltd., Hyderabad. 3. Syngenta, Mumbai 4. Gharda India Chemicals, Mumbai. 5. Meghmani Organics Ltd., Ahmedabad 6. Rotam India Ltd., Vapi, Gujarat 7. Sudarshan Chemical Industries Ltd, Pune 8. Coromandel International Ltd. 9. Hyderabad Chemical Product Ltd 10. Spectrum Ethers Limited, Mumbai 11. GSP Crop Science Pvt Limited, Ahmedabad. 12. Punjab Chemicals and Crop Protection Pvt Limited 13. Krishi Rasayan Pvt. Ltd. 14. Heranba Industries Ltd., Mumbai 15. Patel Pesticides India Pvt Ltd, Vadodara 16. Excel Crop Care Ltd., Mumbai

				<p>17. BestCropScienceLLP,Gajraula, UP89.0%.Min9(4)</p> <p>18. CheminovaIndiaLtd.89.0%.Min9 (4)</p> <p>19. M/s Godvari Farm Chemical Industries Ltd., 9 (4), in 386thRC</p>
145.	Prohexadione-Calcium 10% WG (FI-WRT)	825	IPT (VTA) Pergande, GmBH, Wilfried PergandePlatz1,06369,WeiBandt-Golzau, Germany(ByM/sBASFIndiaLtd, Mumbai in 345 th RC)	
146.	Propamocarb Hydrochloride Tech.66%w/wmin.	372	Bayer Crop Science AG, Germany (By M/s BayerCropScienceLtd.,Thanein371 st /372 nd RC)	
147.	Propanil Technical 88% min., 97% w/w min	288	<ol style="list-style-type: none"> 1. Monsanto Agricultural ProductsCo.,USA 2. Makhteshim Agan BeerSheva,Israel. 3. Rohm & HassCo.,USA 	M/s UPL Ltd., Mumbai, 97% w/w min.9(4), in 387 th RC .(TIM vs TIT)
148.	Propargite Technical 90% w/w min.	289	<ol style="list-style-type: none"> 1. Chemtura Italy s.r.l. Delle Industrie, 40, Casella Postale 13, 04013, Latina Scalo, Italy (By m/s Crompton Speciliteies Asia Pacific (P) Ltd in 225thRC) 2. QingdaoHansenBiologicScienceCo.Ltd., No. 210, Shenzhen South Road, Laixi, Qingdao, China Valid up to 06.11.2018 through Supplier: 	<ol style="list-style-type: none"> 1. Indofil Chemical Company Ltd., Andheri(E), Mumbai u/s 9 (3) 315thRC 2. HPM Chemicals &FertilizersLtd., N. Delhi 3. BharatRasayanLtd.,NewDelhi 90.0 % Min.9(4). 4. MeghmaniOrganicLtd,90.0% Willowood (Hangzhou) 5. IndogulfCropScienceLtd,New Delhi, 90.0 % Min.9(4). 6. M/sBestCropSciencePvt.Ltd., New Delhi, 90.0 % Min.9(4). 7. M/sAstecLifeScienceLtd.,90.0% Min. 9 (4), In397thRC.

149.	Propetamphos Technical 87.5%min.	369	1. SyngentaCropProtectionAG.,Switzerland 2. Irvita Plant Protection N.V.,Netherlands Antilles	
150.	Propiconazole Technical 88% min., 98% w/w min.	488	1. SyngentaCropProtectionAG.,Mothey, Switzerland 2. Irvite Plant ProtectionNetherlandAntiles	1. Nagarjuna Agrichem Limited, Mumbai. 2. SpectrumEthersLtd.,Mumbai 3. Sudarshan Chemicals Industries Limited,Pune 4. AstecChemicalsPvt.Ltd.,Mumbai 5. MeghmaniIndustriesLtd. 6. Hyderabad ChemicalProductsLtd. 7. Indofil IndustriesLtd.,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.9(4) 15. CropLifeScienceLtd.88.0%Min. 9(4) 16. M/sUPLLtd.,Mumbai,88.0% Min.9(4) 17. M/s India Pesticides Ltd., 98% min.9(4) in395 th RC 18. M/s HPM Ltd., 88% min.9(4)in 399 th RC
151.	1. Propineb Technical	290	1. Bayer CropScience AG, D-51368,	1. UnitedPhosphorusLtd.,Mumbai/s 9

	80%min 2. Propineb Technical 85.0 % min		Leverkusen, Germany, By m/s Bayer India Ltd) change to M/s Bayer AG, Germany), (By- Bayer CropScience Ltd., Mumbai, India, 80% w/w min., in 392 nd RC.) 2. Nantong Baoye Chemical Co. Ltd., No.78, Chuanzhha Road(W), Nantong, Jiangsu, China (P.R.C) through Supplier: M/s. Willowood (Hangzhou) Co. Ltd Room No.2003 Golden Plaza, No. 118, Qingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (By M/s WillowoodChemicalPvt.Ltd,in359 ^l RC)	(3) in255 th RC 2. Sabero OrganicsGujaratLtd 3. IndofillIndustriesLtd.,80%min.9 (3) in 378 th RC cat. TIM vs TIT) 4. M/sBestCropSciencePvt.Ltd., 80% min. 9(4), in389 th RC 5. M/sIndiaPesticidesLtd.,80%min. 9(4), in407 th RC.
152.	Propaquizafop 91% Technical	582	M/s Agan Chemical Manufacturers Ltd , P.O.B. 262, Nothern Industrial Zone Ashdod, Israel Source name change to ADAMA Agan Ltd., P.O.B. 262, ASHDOD, Israel (By M/s ADAMA India Ltd Hyderabad in	
153.	Propaquizafop 10%EC (FI-WRT)	582	M/sAganChemicalManufacturersLtd P.O.B. 262, Nothern Industrial Zone Ashdod,Israel Source name change to ADAMA Agan Ltd. Ashdod, Israel Through)	
154.	Propaquizafop 2.5 % +Imazethapyr 3.75 %w/wME		ADAMA Agan Ltd., Northern Industrial Zone, P.O.B. 262,	

			Ashdod 77102, Isreal through supplier M/s. ADAMA Quena N.V.,PosCabaOfficeParkUnit-13,P.O.B. 403, Curacao.(by M/s ADAMA India Pvt. Ltd., Hyderabad in362 nd RC)	
155.	Propaquizafop 5% + Oxyflufen 12% EC		Adama Agan Ltd., P.O.B. 262, Northern Industrial Zone, ASHDOD, Israel Supplier: Adama Quenna N.V. P.O.B.403, Curacao.(byM/sADAMAIndiaPvt. Ltd., Hyderabad in 359 th RC)	
156.	Pyraclostrobin Tech 95% min		BASF Schwarzheide GmbH, Schipkauer Strasse 1, 01987, Schwarzheide, Germany (By BASF India Ltd.,in 360 th RC)	M/s Best Crop Science LLP,NewDelhi u/s 9(3) , 97.0% Min , TIM vs TI in 399th RC
157.	Pyraclostrobin 20% WG (FI-WRT)	659	BASF Corporation. 14284 Highway 41 North, Sparks, GA 31647, USA (By BASF India Ltd.,in 289 th RC)	
158.	Pyraclostrobin 100g/L CS(FI)	659	BASF Espanola S.L., Poligon IndustrialSan Vincente 08755 Castellbisbal,Spain(By BASF India Ltd. in 367 th RC.)	
159.	Pyraclostrobin 133 g/l + Epoxiconazole 50 g/l SE (FI-WRT Epoxiconazole)	637 548	BASF Espanola S.L, Ctra. Nacional, 340 Km1156,43006Tarragona,Spain(B yM/s BASF India Ltd, Mumbai in350 th RC)	
160.	1. Prochloraz 24.4% + Tebuconazole 12.1% w/w EW (FI-WRT , Prochloraz Technical)	394	1. M/s Adama Makhteshim Ltd. (Formely known as Makhteshim chemical worksLtd. Pobox60,IndustrialzonebeerSheva84100 Israel,(By-	

			M/s Adama India Pvt. Ltd. (valid upto 31/03/2019), (FI-WRT)u/s 9(3), in 393 rd RC)	
161.	Prochloraz Technical 97%w/wMin	394	M/s ADAMA Makhteshim Ltd. (Formerly known as Makhteshim Chemical Works Ltd.), P. Box 60, Industrial Zone, Beer Shewa 84100, Israel. Through Supplier : same as manufacturer M/s ADAMA Makteshim Ltd. Israel. (valid upto 31/03/2022), (By- M/s ADAMA India Pvt. Ltd., 97% w/w Min., in 398 th RC).	
162.	1. Pyriproxyfen Technical (97% Min), 95.0% min., 98% w/w min.	652	<ol style="list-style-type: none"> Sumitomo Chemical Co. Ltd., Japan (By Sumitomo Chemical India Ltd , Mumbai in 252nd RC) Jiangsu Flag Chemical Industry Co. Ltd., Changhenghe Road, Nanjing Chemical Industrial Park, Luhe District, Nanjing PC: 210047, P.R. China (by M/s Parijat Industries India Pvt. Ltd., Delhi in 365th RC) M/s 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: M/s HC Agrochemical Co. Ltd. Room 1508, 885 Ren min Road, Shanghai 200010 P.R. China. 97%w/w min. (valid upto 4th May 2023), (By M/s GSP Crop Science Pvt. Ltd., in 	<ol style="list-style-type: none"> M/s Tagros Chemicals India Ltd., 98%w/w min. 9(3), in 386th RC) M/s AgroLife Sciences Corporation, 95% w/w min. 9(4) in 399th RC

			389 th RC under category new Source.)	
163.	1. Pyriproxyfen 0.5%GR (FI)		Sumitomo Chemical Company Limited, Japan (By Sumitomo Chemical India Ltd., Mumbai in 289 th RC)	
164.	Propoxur Technical 95% min.	291	1. Bayer Crop Science A.G. Germany. 2. Borregard Italia SRL Milano, Italy. 3. Enichem Synthesis, Madona, Italy. 4. Sundet (S) Pte. Ltd., Singapore	Atul Ltd., Valsad.
165.	1. Pyrazosulfuron ethyl 70% WDG (FI-WRT)	491	1. M/s. Nissan Chemical Industries Ltd., Kowa- Hitotsubashi, Building, 7-1-3- Chome, Konda-Nishiki-Cho, Tokyo, Japan (By M/s. Nagarjuna Agrochemicals Ltd. in 351 st RC) Change to M/s Nissan 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), Through Supplier: M/s. Nissei Corporation, 10-51 Nihonbashi-Honcho, 1- Chome, Chou-Ku Tokyo-1030023, Japan. (By M/s. Nagarjuna in 408 th RC.)	
166.	Pyrazosulfuron ethyl Technical 97.00% w/w min. , 98% min	491	1. LG Life Sciences Limited, LG Gwangwamun Bldg., 92, Sinnmunno 2-ga, Jongno-gu, Seoul-110062, Seoul, (by UPL Ltd. Import., in 306 th RC) 2. M/s Jiangsu Repond Pesticide Factory Co. Ltd. Yangkou	1. M/s UPL limited ,Mumbai, u/s 9 (3) 97.0 % Min , in 350 th RC 2. Meghmani Industries Ltd., 96.0% Min. 9(4) 3. M/s Bharat Rasayan Ltd., 97.00% Min. 9 (4) in 393 rd RC

			Chemical Cluster Area, Rudong Country, Jiangsu Province China through supplier M/s- Willowood (Hangzhou)Co.Ltd.RoomNo.2003, Golden Plaza, No. 118, Quingchun Road, Xiacheng District, Hangzhou City, Zhejiang Province, China (by M/s Willowood Chemical Pvt. Ltd. In 417 th RC)	4. M/s Ichiban Crop Science Ltd. u/s 9(4) in 421 st RC
167.	Pyridalyl tech	703	Sumitomo Chemical Co. Ltd., Tokyo, Japan. (By M/s Sumitomo ChemicalsIndia Pvt. Ltd in 269 th RC)	
168.	1. Pyridaben20%WP	756	1. M/s Nissan Chemical Industries Ltd. Kowa Hitotsubashi Building 7-1, 3-chome, kanda-nishikicho, chiyoda ku, Tokyo- 1010054 Through Supplier: M/s Nissei Corporation, Japan Nihonbashi-honcho, 1-chome, chuo-ku Tokyo, 1030023 Japan, (valid upto 31.03. 2020), (by Godrej Agrovat Ltd in 393 th RC) Sourcechange to M/s Nissan Chemical Corporation, 5-1, Nihonbashi, 2-Chome, Chou-Ku, Tokyo, 1036119, Japan. (Endorsement by Godrej Agrovat Ltd in 408 th RC,)	
169.	Pyrifthalid Technical 98% w/w min		M/s –Synwill Nantong Chemical Co. Ltd , No.20, 4th Haibin Road, Rudong Coastal Economic Development Zone Nantong city, Jiangsu Province, P.R- China. (by M/s	

			Syngenta India Ltd, approved in 424 th RC 98% min.)	
170.	Pyriproxifen 0.5% Gr.	652	1. Sumitomo Chemical Company Limited, Japan.	
171.	Pyriithiobac Sodium 95% min	583		Goldmuhar Agrochem & Field Ltd., Vikhroli (Mumbai), Formerly known as Bahar Agro Chem & feeds Pvt. Ltd u/s 9 (3) in 261st RC
172.	Pymetrozine 50.0% WG (FI-WRT)	547	M/s Syngenta Korea Limited, Iksan Plant, Korea with supplier same as the manufacturer valid upto 28.03.2021 (By Syngenta India Ltd. In 347 th RC)	
173.	Pymetrozine Technical 98% w/w min.	547		<ol style="list-style-type: none"> 1. M/s GSP Crop Science Ltd, 98.0% Min u/s 9(3), (TIM vs FI-WRT) in 388th RC 2. M/s Coromandal International Ltd., 98% min., 9(3), (TIM vs FI-WRT) in 401st RC. 3. M/s Bhagiradha Chemicals & Industries Ltd (98% min., 9(3), (TIM vs FI-WRT) 416 Rc 4. M/s Meghmani Industries Ltd. u/s 9(4) in 421st RC
174.	Pyroxasulfone 85.0 %w/w WG(FI-WRT)	822	Name & add of manufacturer & exporter Kumiai Chemical Industries Co. Ltd., 4-26, Ikenohata 1-Chrome, Taitoh-Ku, Tokyo 110 8782, Japan (Name and Add. f source of Technical in the Country of origin M/s Iihara Chemical Industry Co. Ltd , Shizouka Factory, 1800, Nakanogo	

			fujii, Shizouka, Japan (Valid till 09.07.2020) (By M/s P.I IndustryLtd, in 401st RC)	
175.	Pyroxasulfone Technical 95% w/w min.	822	1. Name and address of source changes M/s IharaChemicalsIndustryCo.Ltd.,Shizouka Factory, 1800, Nakanogo Fiji, Shizouka, Japan to Kumini Chemical Industry Co. Ltd.,4- 26,Ikenohata1-Chrome,Taitoh-Ku, Tokyo 1108782, Japan (by M/s P I Industries Ltd. in 418 th RC)	
176.	Quinalphos Technical 70% min.	295	Novartis Crop Protection Inc., USA	<ol style="list-style-type: none"> 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.9(4) 13. M/s Bhagiradha Chemicals and Industries Ltd., 70% min. 9 (4)in 395thRC
177.	Quinalofop ethyl Technical, 98% w/w	493	Nisan Chemical Industries Ltd, Kowa, Hitotsubashi Building, 7-1,	1. M/sCrystalCropprotectionPvt.Ltd. .9(3)98%w/wmin.in380 th RC)(TIM

			3-Chome, Kanda-Nishikicho, Chiyoda-Ku, 101-0054Tokyo, Japan, Through Supplier - Nissei Corporation,10-5, Nihonbashi-Honcho,1-Chome, Chou-Ku Tokyo, 103-0023Japan. (By M/s Dhanuka Agri tech Ltd , 98.0% Min in 393 th RC)	vsFI) 2. M/sGodrejAgrotechLtd,9(3)98% w/wmin.in380 th RC)(TIMvsFI) 3. M/sAtulLtd.,9(3),98%w/wmin.in 387 th RC) (TIMvsFI)
178.	1. Quizalofop ethyl10%EC 2. Quizalofop ethyl5%EC*	493	1. M/s 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-KuTokyo,103-0023,Japan.(By M/sDhanukaAgritechLtd.,10.0%ECin 348 th RC) Source Change to M/sNisan	
179.			Chemical Corporation, 5-1, Nihonbashi, 2- Chome,Chou-Ku,Tokyo(10136119),Japan 2. * M/s Nissan Chemical Co.,Japan (By M/s ArystalLifeScienceIndiaPvt.5.0%ECin246 th RC)	
180.	Quizalofop-p-tefuryl 4.41%EC (FI-WRT)	622	Chemtura Europe Ltd. , Chemark Kft, Hungary (ByM/sChemtura Chemicals India Pvt. Ltd. Mumbai in 290 th RC)	
181.	Safufenacil Technical 94.5% w/w min.	826	M/s – BASF Corporation, Hannibal Plant, 3150 Highway JJ Palmyra, Missouri 63461 United States of America	

182.	Saflufenacil 70% WG	826	M/s- BASF Corporation, Manati Plant Route No.2, Km 47.3 Manati, puerto Rico 00674 (by BASF India Ltd, approved in 423 rd RC)	
183.	S-Bioallethrin Technical 95% min.		Evo SA, Paris, France	
184.	Sirmate	304	To be informed	
185.	Sodium para-nitrophenolate 1.8%SL	625	M/s. Asahi Chemical Mfg. Co. Ltd. 500, Takayasu, Ikarugacho, Ikomagun, Nara Pref, Japan Through Supplier: M/s. Arysta Life Science Corporation, 38 th Floor, St. Like's Tower, 8-1 Akashi-Cho, Chou-Ku, Tokyo, 104-6591, Japan, SeirokaGardenNai, P.O. - 51(ByM/sArstaLifeScienceAgriService Pvt ltd , Gurugram in 358 th RC)	
186.	Spinetoram 11.7% SC, *Spinetoram 81.2% w/w min.	803	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.(By M/s Dow AgroScience India Ltd. in 360 th RC) *M/s Chem design products inco. (Contract to Dow Agro Sciences LLC), to Stanton Street, Marinette, WI 54143, USA Supplier: M/s Dow Agro Sciences LLC, 9330 Zionsville road, Indiana Pollis, IN	

			46268, USA (425 RC)	
187.	Spinosad Technical 85% min.	584	1. Dow AgroScience, USA 2. Dow AgroScience, New Zealand. (By De Nocil crop Protection)	1 Biosynthetics, Jalgaon, u/s 9 (3) in 278 th RC
188.	Spiromesifen Technical 96.5% min	670	Bayer Crop Science AG, Germany, (By M/s Bayer Crop Sciences Ltd in 298 th RC Change to M/s Bayer AG, Germany), (Bayer Crop Science Ltd. India 96.5% in 392 nd RC).	
189.	Spirotetramat Technical 96.0 % Min.	762	Bayer Crop Science AG, Germany, (By M/s Bayer Crop Sciences Ltd, Thane in 360 th RC) Change to M/s Bayer AG, Germany), (Bayer Crop Science Ltd. India 96 % in 392 nd RC.)	
190.	Streptomycin + Tetracycline	328 330		Hindustan Antibiotics Ltd, Pune
191.	Sulfentrazone Technical 91% Min., 95.00% w/w min. *	613	M/s Jiangsu Lianhe Chemical Technology Co. Limited, Welson Road, Chenjiangang, Xiangshui, Jiangsu 224631 China Valid Upto 31.03.2018 (By M/s FMC India Pvt Ltd., in 362 nd RC)	* M/s Tagros Chemicals India Ltd. 95.00% w/w min. TIM 9(3), in 395 th RC.
192.	Sulfosulfuron Technical 98% min., 98.5% min.	585	Monsanto Company, USA Supplier – Sumitomo Chemical Company, Japan (By Monsanto Enterprises Ltd in 201 st RC)	1. United Phosphorus Limited u/s 9(3) in 227 th RC 2. Gharda Chemicals, Mumbai , Limited u/s 9 (3) in 238 th RC 3. Hyderabad Chemical Products Ltd., Hyderabad

				<ol style="list-style-type: none"> 4. Atul Limited,Gujarat 5. Tagros IndiaLtd,Chennai 6. Meghmani Industries Limited, Ahmedabad 7. Crystal PhosphateLtd,Delhi 8. GSPCropSciencePrivateLimited, 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 Crop Protection Ltd.,Mumbai 15. HeranbaIndustriesLtd. 16. IndofilIndustriesLtd.,Andheri(E), Mumbai 17. HPMChemicals&FertilizersLtd., N. Delhi,98.5 %min.9(4) 18. BestCropScienceLLP,Gajraula, UP, 98.5 %min.9(4) 19. ExcelPhosphatePvt.Ltd.98.5% min.9(4) 20. M/s Godavari Farm Chemical IndustriesPvt.Ltd,98.5%min.9(4), in 408th RC.
193.	Sulphur 80% min. Sulphur flowable 52% (import)	109	<ol style="list-style-type: none"> 1. Syngenta ProdukteAG., France. 2. Stoller Enterprise Inc.Texas,USA 	<ol style="list-style-type: none"> 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%)
194.	Sulphur 80% WG (FI)	109	BASF Alkiliengesellschaft ProductionCrop Protection, 67056, Ludwigshafen,Germany	
195.	1. Tebuconazole 5.4%FS 2. Tebuconazole 50% + Trifloxystrobin 25%WG*	524 705	1. Bayer Crop Science LP, 8400, Hawthorn Road,KansasCity,MO 64120,USA 2. *Bayer Crop Science AG, Germany, change to M/s Bayer AG, Germany, (changeofnameofsourceofimport), (By- Bayer CropScience Ltd., Mumbai, India for the product Tebuconazole 50%+ Trifloxystrobin 25%WG, in 392 nd RC.	
196.	1. Tebuconazole Technical 93% min.97%min, 95% w/w min.	524	1. Bayer Crop Science LP, 8400, Hawthorn Road,KansasCity,MO 641 20,USA , (By Bayer (India) Ltd . Mumbai) MakhteshiimChemicalsWorksLtd.P OBox 60, Industrial Zone Beer Sheva, 84100, Israel through supplier M/s Irvita Plant Protection N.V., Curacao, Netherlands , Antilles TI new Source (ByMakhteshiim AganIndiaPvt.Ltd.97.0%minin341st RC)	1. ExcelCropCareLtd.,Mumbai,U/s9 (3), 95.0% Min in339 th RC 2. Astec Life Sciences Ltd., Mumbai , U/s 9 (3), 95.0% Min in 344 th RC 3. Punjab Chemical Crop protection ltd., Chandigarh , U/s 9 (3), 97.5% Min in346 th RC 4. IndofilIndustries Ltd.,MumbaiU/s 9 (3), 95.0% Min in 349 th RC 5. GSPCropSciencePvt.Ltd.(95% min) 6. BestCropScienceLLP,Gajraula, UP(95%min) 7. CheminovaIndiaLtd.95.0%Min.

			<p>3. Adama Irvita N.V. Pos Cabai office park 13, P.O. box 403, Curacao, Israel</p> <p>4. Bayer Crop Science AG, Germany, change to M/s Bayer AG, Germany, (By-Bayer Crop Science Ltd., Mumbai, India 95.0% min in 392nd RC.)</p> <p>2. Hangzhou Uudragon Chemical Co. Ltd., Tangxi Industrial Area, Yuhang District Hangzhou, Zhejiang, China through supplier M/s. Chongqing Shining Fine Chemicals Co. Ltd., 28-3 Citic Commerce, No. 5 Yanghe San Cun Jiangbei District-Chongqing, China. Valid upto 11.12.2018 (By crystal crop protection Pvt. Ltd. 95.0 % Min in 358th RC)</p>	<p>9(4)</p> <p>8. Coromandal International Ltd., Secandrabad 95.0%Min.9(4)</p> <p>9. Insecticides India Ltd. 95.0% Min.9(4)</p> <p>10. JaiShree Rasayan Udyog Ltd., Delhi 95.0%Min.9(4)</p> <p>11. HPM Chemicals & Fertilizers Ltd., Delhi 95.0%Min.9(4)</p> <p>12. Bharat Rasayan Ltd., New Delhi, 95.0%Min.9(4)</p> <p>13. Excel Crop Care Ltd., 95%w/w min. u/s 9(3) approved in 339th RC</p> <p>14. M/s Nagarjuna Agrichem Ltd., 95.0% Min. 9(4) in 397th RC</p> <p>15. M/s India Pesticides Ltd., 95%w/w min. 9(4), in 399th RC</p> <p>16. M/s Sahib Pesticides Ltd., 95%w/w min. 9(4), in 399th RC</p>
197.	Tembotrione Technical 94% min	804	M/s. Bayer Crop Science LP 8400 Hawthorne Rd, Kansas City, MO 64120, USA (By M/s. Bayer Crop Science Ltd. In 353 rd RC)	M/s Insecticide India Ltd. approved in 425 th RC
198.	Temephos Technical 90% min.	201	American Cyanamid Co., USA	<p>1. Gharda Chemical, Mumbai</p> <p>2. Cyanamid India, Mumbai</p> <p>3. Hikal Ltd</p> <p>4. Bharat Rasayan Ltd, New Delhi.</p> <p>5. United Phosphorus Ltd., Mumbai</p> <p>6. Coromandel International Ltd.</p> <p>7. Hernaba Industries Ltd., Mumbai, 90% min 9(4)</p>
199.	1. Tetraconazole 3.8% EW (FI-WRT)	719	1. Isagro Spa, Centro Uffici San Siro- Fabbricato D-ala-3-Via Caldera, 21-20153, Milano, Italy (by M/s Isagro (asia)	

	2. Tetraconazole 11.6%w/w (12.5%w/v) SL(FI-WRT)		Agrochemicals Pvt. Ltd. , Mumbai in 310 th RC) 2. Manufacturer/exporter: M/s Via Nettunense km.23400, Aprilia (Lantina)-Italy through supplier M/s Isagro S.p.A, Centro Uffici San Siro-Fabbricato D-ala 3- Via Caldera, 21-20153, Milano,	Italy (valid till 31.12.2019)
200.	Tetranilprole technical 89% w/w min.		1. M/s Bayer CropScience AG, Germany USA (approved by M/s Bayer Crop Science Ltd. in 427 th RC)	
201.	Thiacloprid Technical 97% min.	646	1. Bayer Crop Science AG, Germany., (By M/s Bayer Crop Sciences Ltd, Mumbai in 252 nd RC) Change to M/s Bayer AG, Germany , in 392ndRC.)	CheminovaIndiaPvt.Ltd.,9(3)in272 nd RC
202.	Thiodicarb Technical 94% min	498	1. Bayer Crop Science LP, 2TW, North Carolina, USA (Name of previous source is M/s. Aventis CropScience USA Inc, North Carolina, USA, was changed in 230 th RC) (By Bayer CropScience Ltd. IndiaTI)	1. HyderabadChemicalProductsLtd., U/s 9 (3) in 291 st RC 2. Rotam India Ltd., Vapi, Gujarat 3. Insecticides India Ltd, Delhi 4. Meghmani Organics Ltd, Ahmedabad. 5. HPM Chemicals & Fertilizers Ltd., N. Delhi 6. Bharat Rasayan Ltd., New Delhi, 94% min, 9(4) 7. M/s BestCropScience LLP, 94% min, 9(4) in 407 th RC
203.	1. Thiamethoxam Technical 97% min. 2. Thiamethoxam 0.01% w/w Gel Bait (Household	614	1. DSM Chenve Linz St. Peter Strusse 25, A- 4021 Linz, Austria, (by M/s Syngent a India Ltd., Pune in 215 th RC TI)	1. Syngenta, Mumbai, u/s 9(3)(TIM) 97.0% min in 218 th RC (CR issued on 25.02.2002) 2. Rallis India Ltd , Bangalore , u/s 9(3)

Pesticides)*		<p>2. * M/s. 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 is the same in this case. (by M/s Syngenta India Ltd., Pune in 365thRC)</p>	<p>in245thRC</p> <ol style="list-style-type: none"> 3. GSP Crop Science Ltd., Ahmedabad 4. Parijat Agencies, New Delhi 5. Hyderabad Chemical Products Limited, Hyderabad 6. Insecticides India Limited, Delhi 7. Bharat Rasayan Limited, New Delhi 8. Tagros Chemicals India Limited, Chennai 9. P.I. Industries Limited, Gurgaon 10. Atul Limited, Atul 11. Punjab Chemicals & Crop Protection Ltd., Mumbai 12. Sharda Worldwide Exports Pvt. Ltd. 13. Crystal Phosphates Ltd., New Delhi 14. Meghmani Industries Ltd. 15. Krishi Rasayan Pvt. Ltd. 16. United Phosphorous Limited, Mumbai 17. Bhagiradha Chemicals & Industries Ltd., Ahmedabad 18. HPM Chemicals & Fertilizers Ltd., N. Delhi 19. Best Crop Science LLP, Gajraula, UP 20. Excel Phosphate Pvt. Ltd. 97.0% min. 9(4) 21. Samardhi Crop Chemicals 97.0% min. 9(4) 22. Indofil Industries Ltd. Mumbai, 97.0 % min. 9(4) 23. Jubilant Life Science Ltd. UP. 97.0
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				<p>% min. 9(4)</p> <p>24. Oriyo Organics Pvt.Ltd., Yamunanagar 97.0 %min.9(4)</p> <p>25. AimcoPesticidesLtd.Mumbai, 97.0 % min.9(4)</p> <p>26. SudarshanCrop(I),Jaipur,,97.0% min.9(4)</p> <p>27. AgricoOrganicsLtd.NewDelhi, 97.0 % min.9(4)</p> <p>28. NutechLifeSciencePvt.Ltd.,Pune, 97.0 % min.9(4)</p> <p>29. M/sMegaInnovativeCropPvt. Ltd.,97.0%,9(4),in386thRC.</p> <p>30. M/sIndiaPesticidesLtd.,97.0% min. 9(4), in399thRC</p> <p>31. M/sShreejiPesticidesPvt.Ltd., 97.0 % min. 9(4), in 401st RC</p>
204.	Thiocyclam Hydrogen Oxalate Technical 86% min., *87.5% min.	373	1. Suzhou Link Hi-Tech Co., Ltd. No.1, Link road Dongpiao Town Xiang Cheng District, Suzhou, Jaingsu, China a designated manufacturer of M/s .Nippon Kayaku Co. Ltd., Tokyo Fujimi Bidg, 11-2, Fujimi 1 Come, Chiyodaku, Tokyo, Japan Through Supplier: M/s Arysta life Science Corporation, 38-39F St. Luke's Tower, 8- 1, Akashi-Cho, Chou-Ku, Tokyo-1046591, Japan (By M/s PI Industries Ltd. In 357 th RC)	1. M/s PI Industries Ltd. u/s 9(3) in 426 th RC meeting for 87.5% min.*
205.	Thifluzamide Technical 96% min	615		1.NagarjunaAgrichemLtd.,Hyderabad/u/s 9(3)96.0%w/wminin266 th RC
206.	Thiobencarb	331	To be informed	

207.	Thiophanate-methyl Technical 94% min., 95% min.	314	<ol style="list-style-type: none"> 1. Nippon Soda Co.Ltd.,Japan. Through Supplier; M/s Summit Agro International Ltd., Chou Ku Harumi Tokyo, Japan. (By Dhanuka Agritech Ltd., New Delhi) 2. Sinoway International Jiangsu Ltd., 147 PinglingRoadEast,Liyang,Jiangsu, China. Supplier: Jiangsu Jiatai Chemical Co. Ltd., 17, Beijing Road (West),Nanjing,China 3. M/s – HailiGuixi Chemical Pesticide Co. Ltd. Baili Industry Area, Guixi Jiangxi, China through supplier M/s- Willowood (Hangzhou) Co.Ltd. Room No. 2003.,Golden Plaza, NO 118, Qingchun Road, Xiacheng District, Hangzhou City, ZhejiangProvince,China.(byM/s Willowood Chemical Pvt. Ltd. In 417th RC) 	<ol style="list-style-type: none"> 1. Motilal Pesticides,Mathura(UP) 2. Meghmani Industries Ltd,Ahmedabad 3. Insecticide IndiaLtd,Delhi 4. SudarshanChemicalIndustriesLtd., Pune 5. RallisIndiaLtd. 6. M/sBestCropScienceLLP;94%w/w min. (9(4) TIM) in395thRC 7. M/s Indofil Industries Ltd., 94% w/w min. (9(4) TIM) in 397th RC &407thRC. 8. M/sR3CropCarePvt.Ltd.,94%amin., 9(4), in407thRC
208.	Thiophanate-Mehtyl 450 g/l + Pyraclostrobin 50 g/l FS(FI)	314 659	BASF Agri-Production SAS Z.I. Lyon Nord, Rue Jacquard-69727, Genay, France. (By M/s BASF India ltd , Mumbai in 343 rd RC)	
209.	Thiram Technical 95%min.&98%min.	117	<ol style="list-style-type: none"> 1. Taminco bvba 9000 Ghent, Pansulphur Ltd, China 2. BayerAG,Germany. 3. W.A. ClearyCorp.,USA. 4. ZenekaLtd.,UK. 5. Veb ChemiekoplantButterfield,GDR 	<ol style="list-style-type: none"> 2. Swarup Chemicals P. Ltd., Lucknow 3. SudamaChemtechPvtLimited, Vadodara 4. GSP Crop SciencePvt.Ltd

				<p>5. Bharat Rasayan Ltd.(95%)</p> <p>6. M/s Chemet Chemicals Ltd, Ahmedabad, (95%)9(4)</p> <p>7. UPL Ltd., Mumbai,95%min 9(4)</p> <p>8. M/sMeenakshiAgroChemicals, 95% min. 9 (4), in395thRC</p> <p>9. M/sBestCropScienceLLP,95% min 9 (4), in405thRC.</p>
210.	Tolfenpyrad 98.5% Tech Min	783	<p>1. Nihon Nohyaku Co. Ltd., 19-8, Kyobashi 1- Chome, Chou-Ku, Tokyo 1048386, Japan.(By M/s P I Industries Ltd) through Supplier : M/s Sojiz Corporation, 1-1, Uchisaiwaicho 2-Chome, Chiyoda-Ku, Tokyo-100-8691, Japan. (Endorsement of SupplierBy-M/sPIIndustriesLtd.in404th RC.)</p>	<p>Coromandel International Ltd., 98.50% w/w min. (TIM vs TIT) under section 9(3). In 379th /380th RC</p>
211.	Topramizone 336 g/l SC	767	<p>1. IPT (VTA) Pergande, GmbH, Wilfried Pergande Platz 106369, WeiBandt-Golzau, Germany through Supplier: BASF SE, Germany (by BASF India Ltd. Mumbai in 357th RC)</p>	
212.	Topramezone Technical 95.8% w/w min.		<p>1. M/s Lonza AG Muenchensteinerstrasse 384002 Basel, Switzerland (by M/s BASF India Ltd. in 423rd RC)</p>	<p>1. M/s BASF India Ltd. u/s 9(3) approved in 427th RC</p>
213.	Transfluthrin Technical 94% min.	558	<p>1. Bayer Crop science AG., Germany, (By Bayer India Ltd in 205thRC) Change to M/s Bayer AG, Germany), (By- Bayer Crop Science Ltd., Mumbai, India- 94% min, in 392nd)</p>	<p>2. M/s Bilag Industries Pvt. Ltd., Vapi, Gujarat, in 250th RC</p> <p>3. M/s Synergia Science Pvt. Ltd. 90.0%, 9(4) in 344thRC</p>
214.	Triacantanol	559	<p>Formulation manufactured in-situ</p>	

215.	Triadimefon Technical 90% min.	351	Bayer CropScience AG, Germany,Change to M/s Bayer AG, Germany), (By-Bayer CropScienceLtd.,Mumbai,India, TI ,90% min., in 392 nd RC.)	
216.	Triafamone 20% w/w + Ethoxysulfuron 10% WG % w/w SC(FI-WRT)	853 519	1. M/s Bayer Crop Science, AG, Germany through Supplier: M/s Bayer,Vietnam Ltd., Vietnam (By- M/s Bayer Crop Science Ltd., Mumbai in 390 th RC (FI- WRTriafamone)	
217.	Triallate Technical 90% min.	316	Monsanto Chemicals Co. Ltd., Belgium.	
218.	Triasulfuron Technical 94 % Min.	500	Syngenta Crop Protection AG CH-4002,Basle, Monthey Switzerland. (By M/sSyngentaIndiaLtd,Punein342 nd RC)	
219.	Tricyclazole Technical 95% w/w min., 98% min,	438	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: M/s King Tech Corporation (Room 14 F/M), International Trade commercial building, No. 3005,Nanhu Road, Shenzhen, 518005, PR China (98% min) (By Crystal Crop protection Pvt. Ltd., NewDelhi in 348 th RC) 4. Hangzhou hexin chemicals co. ltd.,	1. Indofil IndutriesLtd.,Andheri(E) 2. NagarjanaAgrichem,Mumbai. 3. RallisIndiaLtd. 4. Crystal PhosphatesLtd.,Delhi. 5. SudarshanChemicalIndustriesLtd, Pune95% 6. GujaratSuperphosphateIndustries (P) Limited, Ahmedabad 7. HeranbaIndustries limited 8. CropLifeScienceLtd,Ankleshwar. 9. Hyderabad Chemical Products Pvt. Ltd. 10. AtulLtd.,Valsad

			Wuli village, Nanyang street, Xiaoshan District, Hangzhou city, Zhejiang province, P.R., China supplied by M/s 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%)	<ol style="list-style-type: none"> 11. Punjab Chemicals and Crop Protection Ltd., Mumbai, 95%min. 9(4) in 389th RC. 12. Meghmani Industries Ltd. Ahmedabad(98%) 13. Tagros Chemicals India Ltd., Chennai 98% 14. Best Crop Science LLP, Gajraula, UP, 98% min, 9(4) 15. M/s Hindustan Insecticides Ltd. 98% min, 9(4) 16. Oriyo Organics Pvt. Ltd., Yamunanagar, 98% min, 9(4) 17. Bhuneshwari Organics Pvt. Ltd., 98% min, 9(4) 18. M/s Hindustan Insecticides Ltd. 98% min, 9(4) 19. M/s Agrow Allied Venture Pvt. Ltd., 98% w/w min., 9(4), in 392nd RC. 20. M/s Shreeji Pesticides Pvt. Ltd., 95% w/w min, 9(4) in 393rd RC 21. M/s Godavari Farm Chemical Industries Ltd., 98% min., 9 (4) in 395th RC 23. M/s India Pesticides Ltd., 98% w/w min. 9 (4) in 397th RC
220.	Trifloxystrobin Technical 96% w/w min.	705	1. M/s Bayer Crop Science AG at Muttentz, Switzerland, Through Supplier-Same. (By- M/s Bayer Crop Science Pvt. Ltd., Mumbai, 96% w/w min. in 388 th RC)	

221.	Triflumezopyrim Technical 94 % w/w Min.,	846	---	M/s E.I. Dupont India Pvt. Ltd., 94 % w/w Min., in 387 th RC
222.	Triflumizole 42.14% w/w SC		M/s Arysta Life Science North America LLC, Cary, North Carolina 27513, USA (approved by M/s Arysta Lifescience Pvt Ltd in 425 th RC meeting)	
223.	Trifluralin Technical 85% min. 95% min	318	<ol style="list-style-type: none"> 1. DowElanco, USA 2. Agan Chemical Manufacturer Ltd., Northern Industrial Zone, P.O. Box 262, Ashdod 77102, Israel 1. Eli Lilly & Co., USA. (by Bayer CropScience Ltd., India, TI) 	<ol style="list-style-type: none"> 2. De-nocil Crop Protection Ltd., Mumbai 3. Sudarshan Chemicals Industries Ltd., (95%)
224.	Thiifluzamide Technical 96% min	615		Nagarjuna Agrichem Ltd., 61, Nagarjuna Hills, Punjagutta Hyderabad-500083(AP)
225.	Validamycin Technical 64% min.	412	<ol style="list-style-type: none"> 1 Sumitomo Chemical Takeda Agro Co. 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 (By M/s Willowood Agro Chem Ltd, in 284th RC) 	
226.	Zinc Phosphide Technical 80% min.	126		<ol style="list-style-type: none"> 1. Agrosynth Chemicals Ltd., Bangalore. 2. Excel Crop Care Ltd., Mumbai

				<ol style="list-style-type: none"> 3. Sandhya Organic Chemicals Ltd., Mumbai 4. United Phosphorus Ltd., Mumbai
227.	Zineb Technical 80% min.	128	<ol style="list-style-type: none"> 1. Dow AgroScience, Italy. 2. FMCCorporation, USA. 3. Montidison SPA, Italy. 	<ol style="list-style-type: none"> 1. Merchem Ltd., Cochin 2. M/s Indofil Industries Ltd Mumbai 87.0 % Min u/s 9 (3) in 388th RC
228.	Ziram Technical 95% min.	129		<ol style="list-style-type: none"> 1. Merchem Ltd., Cochin. 2. India Pesticide Ltd., Lucknow 3. Syngenta India Ltd., Pune

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

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 USE:**

(As on 01.07.2021)

I. PESTICIDES / FORMULATIONS BANNED IN INDIA

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

	31.	Nitrofen
	32.	Paraquat Dimethyl Sulphate
	33.	Pentachloro Nitrobenzene (PCNB) (vide S.O. 569 (E) dated 25 th 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 8 th August, 2018)*
	39.	Sodium Methane Arsonate
	40.	Tetradifon
	41.	Thiometon (vide S.O 3951(E) dated 8 th August, 2018)
	42.	Toxaphene(Camphechlor) (vide S.O. 569 (E) dated 25 th July 1989)
	43.	Triazophos(Vide S.O. 3951(E), dated 08.08.2018)
	44.	Tridemorph (vide S.O 3951(E) dated 8 th August, 2018)
	45.	Trichloro acetic acid (TCA) (vide S.O. 682 (E) dated 17 th July 2001)
	46.	Trichlorfon(Vide S.O. 3951(E), dated 08.08.2018)
	Pesticide formulations banned for import, manufacture and use	
B.	1.	Carbofuron 50% SP (vide S.O. 678 (E) dated 17 th July 2001)
	2.	Methomyl 12.5% L
	3.	Methomyl 24% formulation
	4.	Phosphamidon 85% SL
	Pesticide / Pesticide formulations banned for use but continued to manufacture forexport	
C.	1.	Captafol 80% Powder (vide S.O. 679 (E) dated 17 th July 2001)
	2.	Dichlorvos (vide S.O. 1196 (E) dated 20 th March 2020)
	3.	Nicotin Sulfate (vide S.O. 325 (E) dated 11 th May 1992)
	4.	Phorate (vide S.O. 1196 (E) dated 20 th March 2020)
	5.	Triazophos (vide S.O. 1196 (E) dated 20 th March 2020)
	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 15thJun,2006)	
D	1.	Dalapon
	2.	Ferbam
	3.	Formothion
	4.	Nickel Chloride
	5.	Paradichlorobenzene (PCDB)
	6.	Simazine
	7.	Sirmate (S.O. 2485 (E) dated 24 th September 2014)
	8.	Warfarin (vide S.O. 915 (E) dated 15 th June 2006)

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

II. PESTICIDES REFUSEDREGISTRATION

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	<p>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 ¹Aluminium Phosphide 15 % 12 g tablet and ²Aluminum 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]. ¹Decision of 282nd RC held on 02-11-2007 and, ²Decision of 326th RC held on 15-02-2012.</p> <p>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)</p>
2.	Captafol	<p>The use of Captafol as foliar spray is banned. Captafol shall be used only as seeddresser. (S.O.569 (E) dated 25thJuly, 1989)</p> <p>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)</p>
3.	Cypermethrin	<p>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]</p>
4.	Dazomet	<p>The use of Dazomet is not permitted on Tea. (S.O.3006 (E) dated 31st Dec, 2008)</p>
5.	DichloroDiphenylTrichloroethane (DDT)	<p>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)</p>

		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 26 th May, 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 03 rd May, 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 20 th May, 1999 and earlier RC decision]
8.	Monocrotophos	Monocrotophos is banned for use on vegetables. (S.O.1482 (E) dated 10 th Oct, 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 8 th August, 2018. (i) (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 8 th August, 2018)

**(PUBLISHED IN PART II, SECTION 3, SUB-SECTION (i) OF
THE GAZETTE OF INDIA, EXTRAORDINARY)**

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

NOTIFICATION

In exercise of the Powers conferred by sub clause (i) & (ii) of clause (e) of Section 3 of the Insecticides Act, 1968 (46 of 1968), the Central Government here by reconstitutes the Schedule of the said Act as under:-

THE SCHEDULE

[See Sec. 3(e)]

LIST OF INSECTICIDES

(UPDATED ON 01-07-2021)

**** 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-dimethanonaphthalene
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 Fluorophosphine Oxide	bis-dimethylamino fluorophosphine oxide
12.	Calcium Arsenate	calcium arsenate

13.	Calicum Cyanide	calcium cyanide
14.	Captan	N-(trichloromethylthio) cyclohex-4-ene,1,2-dicarboximide
15.	Carbaryl	1-naphthylmethyl carbamate
16.	Carbon disulphide	carbon disulphide
17.	Carbon tetrachloride	carbon tetrachloride
18.	Chlorbenside	4-chlorobenzyl-4-chlorophenyl sulfide
19.	Simazine (Chlorobis (ethylamino)triazin e)	6-chlorp-N ₂ N ₄ -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-chlorocarbamilate
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-chlorocarbamilate
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-dichloro-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 phosphorothioate
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 phosphorodithioate
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-chlorophenyl benzene suphonate
61.	Fenthion	O,O-dimethyl O-4-,methylthio-m-toylol phosphorothiaote
62.	Ferbam	iron tris(dimethyl)dithiocarbamate)
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-ethylsulfinyethyl 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 pyrophosphoramidate)	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.	Quintozone (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(1R)-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)-cyclopropanecarboxylate 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 chromeno [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 thiocyanacetate (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.	Campechlor (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-diethoxyphosphinothioxyloxy-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 O- 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-chlorocarbamilate
144.	Barium Polysulfide	barium polysulfide
145.	Bentazone (Basagran)	3-isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2- dioxide
146.	Fluchloralin (Basalin)	N-(2-chloroethyl)-a,a,a-trifluoro-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-tetrachloroethylthio) 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-dichlorophenyl)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.	Chloropropane	Chloropropane
174.	Citicide	Chlorinated terpenes
175.	Citowett	alkylarylpolyglykol ether
176.	Nicosamide-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-methylbenzofuran-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.	Dichlofenil	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-chlorophenyl)-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-ethylpropylthiocarbamate
221.	Erbon	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate
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.	Isoproc carb	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	methyl dithiocarbamic acid
254.	Methamidophos	O,S-dimethyl phosphoramidothioate
255.	Methomyl	S-methyl-N-(methylcarbamoyloxy) thioacetimidate
256.	Methylmetiram	ammonium 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.	Naphthylacetic 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 phosphorodithioate
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-tetrachlorophthalide
297.	Cycloate (Ro-Neet)	S-ethyl N-cyclo hexyl (N-ethyl) thiocarbamate
298.	Fenclorphos (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-N ₂ , N ₄ -diethyl-1,3,5-triazine-2,4-diamine
302.	Sindone A	1,1-dimethyl-4,6-di-isopropyl-indanyl ethyl 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 dichlorocarbamilate
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 styrene
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.	Thiadiazinthon	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-methylcarbamoylthio) 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-naphthacene-carboxamide
** Added vide Notification No. GSR 574 (E) * dated 06/10/79		
331.	Thiobencarb (Benthiocarb)	S-4-chlorobenzyl 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-phenoxybenzyl (RS)-2- (4-chlorophenyl)-3-methylbutyrate
335.	Permethrin	3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-3-(2,2-dichlorovinyl)-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-dinitrophenyl isopropyl carbonate
342.	Dithianon	5,10-dihydro-5,10-dioxonaphtho [2,3-b]-1,4-dithiane-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-diyl-di-[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-methylpropionitrile
361.	Diclofop-methyl	(RS)-2-[4-(2,4-dichlorophenoxy) phenoxy]propinoic acid
362.	Etrifos	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-tetramethyl 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-aminoacetic 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.	Chlorpyrifos-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-cyclopropanecarboxylate
406.	Haloxypop-p-methyl	methyl (R) 2-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy) phenoxy] propanoate
407.	Metolachlor	2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl) aceto-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] octacosane-8,14,16,18,20-Pentaene 25-carboxylic acid
409.	Piperophos	S-2-methylpiperidinocarbonylmethyl O,O-dipropylphosphorodithioate
410.	Resmethrin	5-benzyl-3-furylmethyl (1RS, 3RS; 1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxilate
411.	Tolclofomethyl	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-yloxy carbonyl (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-dichlorovinyl)-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-ethoxyphenyl)-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- trifluoromethylbenzyloxy)-phenyl]-1-naphthyl]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-thiadiazol-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,S-di-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-triazol-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-dichlorophenyl)-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-triazin-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-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
446.	Buprofezin	2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5- thiadiazinan-4-one
447.	Chlorfluzuron	1-[3,5-dichloro-4-(3-chloro-5-trifluoromethyl-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'difluoro-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-diisopropyl-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.	Ethalfuralin	N-ethyl-a,a,a, trifluoro-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-toluidine
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-tetrafluoroethoxy)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- dioximidazolidine-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.	Pyraclófos	(RS)-[O-1-(4-chlorophenyl)pyrazol-4-yl O-ethyl S-propyl phosphorothioate]
491.	Pyrazosulfuron and Pyrazosulfuron-ethyl	5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-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) phenoxy] 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-

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-oxypyrimidin-1-yl)-4-[(S)-3-amino-5-(1-methylguanidino)valeramido] 1,2,3,4-tetraoxo-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-naphthyl]-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-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine
511.	Naproanilide	2-(2-naphthoxy)-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-2-yl)-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-ethoxyphenoxy-sulfonyl) urea
520.	Fipronil	(+)-5-amino-1-(2,6-dichloro-???)trifluoro-p-tolyl)-4- trifluoromethylsulfinylpyrazole-3-carbonitrile
521.	Lactofen	ethyl-O-[5-(2-chloro-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-trioxatetetracyclo [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) phosphonium 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 hexafluoropropoxy)-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.	Oxadiazyl	5-tert-butyl-3-[2,4-dichloro-5-(prop-2-ynoxy)phenyl]-oxadiazol-2 (3H)-one
543.	Gossypure (PB Rope-L)	a 1:1 mixture of (Z,Z)-and (Z, E)-hexadeca-7,11-dien-1-yl acetate
544.	Paclbutrazol	(2RS, 3RS)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl) pentan-3-ol
545.	Phenmedipham	methyl 3-(3-methylcarbaniloxy) 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-dimethyl-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.	Fluquinconazole	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-ethylbenzoyl)-3,5-dimethyl benzohydrazide
558.	Transfluthrin	2,3,5,6-tetrafluorobenzyl (1R, 3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
559.	Triflumizole	(E)-4-Chloro-a,a,a?-trifluoro-N-(1-imidazol-1-yl-2-propoxyethylidene)-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-3-phenoxybenzyl (1S)-cis-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate 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-yl dimethylsulfamate
564.	Chlorfenapyr	4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethyl pyrrole-3-carbonitrile
565.	Cyhalofop-butyl	butyl (R)-2-[4-(4-cyano-2-fluorophenoxy) phenoxy] propionate
566.	Desmedipham	ethyl 3-phenylcarbamoxyloxyphenylcarbamate
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-dimethoxy-2-pyrimidin-2-ylcarbamoysulfamoyl)-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-fluorobenzoate
	*	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-chloroquinoxalin-2-ylloxy)phenoxy] propionate
583.	Pyriothiobac-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-dimethylamino-2,3,4,6-tetradecoxy-b-D-erythropyranosyloxy)-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-tetradecoxy-b-D-erythropyranosyloxy)-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-pyrimidyl)-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 anisopliae var acridum
594.	Nomuraea rileyi	Nomuraea rileyi
595.	Verticillium lecanii	Verticillium 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-trifluoromethylpyridine-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] pentacosane-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]pentacosane

		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-carboxylic acid
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.	Tolyfluand	N-dichlorofluoromethylthio-N', N'-dimethyl-N-p-tolylsulfamide
Added vide notification No. G.S.R. 868 (E) dated 15.11.2000		
618.	Extract of Cymbopogon	Monoterpenes
	Species	
619.	Fenpyroximate	tert-butyl (E)-a-(1,3-dimethyl-5-phenoxy-pyrazol-4-yl)methyleneamino-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-chlorophonyloxy)propoxyimino]-butyl}-3-hydroxy-5-thian-3-ylcyclohex-2-enone
630.	Tepaloxymid (Aramo)	(EZ)-(RS)-2-{1-[(2E)-3-chloroallyloxyimino]propyl}-3- hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one
631.	Benfuresate	2,3-dihydro-3,3-dimethylbenzofuran-5- yl-ethansulfonate
632.	Chlorthal-dimethyl	tetrachloro-teraphthalic 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-yl)pent-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.	Procyimidone	N-(3,5-dichlorophenyl)-1,2-dimethylcyclopropane-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 dihydro-1,3-thiazol-2-yl)-4-isobutyl-6-trifluoromethylnicotinate
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-difluorobenzoyl) 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-tolyethyl) carbamoyl] -(S)-propylcarbamate
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-trioxatetracyclo {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-pyrimidiny) cabamoyl-3-(2,2,2-trifluoro ethoxy)-pyridin-2-sulfonamide 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 (Flufenazine)	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.	Coniocytrium minitans	-

684.	Agrobacterium radiobacter strain 84	-
685.	Agrobacterium 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 mycorrhizal (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-isopropyl-1-(1H-1,2,4-triazole-1-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-trifluoro 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 Tetrafluoro-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° 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 extract	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, diacetoxy-8A,15 dissobutyl acyloxy-9a-benzoyloxy-4A; 6A dihydroxy-A-dihydroxylignaloefuran
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)sulfonylurea
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) nicotinamide
728.	Photorhabdus luminescences akhurstii 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-dimethoxyphenyl)-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- carbonylhydrazide
758.	Orthosulfamuron	1-(4,6-dimethoxypyrimidin-2-yl)-3-[2-(dimethylcarbamoyl)phenylsulfamoyl] urea
759.	6-Benzylaminopurine	N-phenylmethyl-1 H-purin-6-amine (6-benzylaminopurine)
760.	Hexamethyldisilazane	Hexamethyldisilazane, reaction product with silica
761.	Kresoxim-Methyl	Methyl(E)-methoxyimino-[2-(0-tolyloxy)methyl]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-(trifluoromethyl) 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	CH ₃ - CH ₂ - CH ₂ - C ₁₈ H ₃₇
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-ylcarbomoyl] 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-fluorophenyl)-N-methyl.
781.	Fluthianil	Z)-2-[2-fluoro-5-(trifluoromethyl) phenylthio]-2-[3-(2-methoxyphenyl)-1,3-thiazolidin-2-ylidene]acetoneitrile.
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)-(1R,3R)-3-(2-Choloro-3,3,3-trifloroprop-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-(methoxyimino)-4,6-dimethyl -2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-Phenyl} -N-methyl acetamide.
801.	Sulfoxaflo	[1-[6-(trifluoromethyl) pyridine-3yl]ethyl]methyl (oxido)- λ 4-Sulfanylidene cyanamide.
802.	Siduron	1-(2-methylcyclohexyl)-3-phenyl urea.
803.	Spinetoram	Major component3'ethoxy 5,6-dihydro spinosyn]-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 diethylthiocarbamate
817.	Prosulfocarb	s-benzylidipropylthio 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-difluoro-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	[1 α (S*),3 β)-(+) -cyano(3-phenoxyphenyl)methyl 3-(2,2- dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
822.	Pyroxasulfone	3-[(5-difluoromethoxy)-1-methyl-3-(trifluoromethyl) pyrazol- 4-ylmethylsulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole
823.	Pyrifluquinazon	1-acetyl-1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6- [1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one
824.	Cyfenopirafen	(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-(9-difluoromethyl)-1-methyl-N-(3',4',5'-trifluorobiphenyl- 2-yl)pyrazole-4-carboxamide

828.	Etoazole	(RS)-5-tert-butyl-2-{2-(2,6-difluorophenyl)-4,5-dihydro-1,3-oxazol-4-yl}phenetole
829.	Bistrifluron	1-[2-chloro-3,5-bis(trifluoromethyl)phenyl]-3-(2,6-difluorobenzoyl)urea
830.	Flupyradifurone	4-[(6-chloro-3-pyridylmethyl)(2,2-difluoroethyl)amino]furan-2(5H)-one
831.	Beflubutamid	(RS)-N-benzyl-2-($\alpha,\alpha,\alpha,4$ -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.	Pyrifthalid	(RS)-7-(4,6-dimethoxyimidin-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-dimethoxyimidin-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-dichloroethyl)-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 subtilis, 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]joxepin-3-one
Added vide notification No. G.S.R. 790(E) dated 11th November, 2014		
858.	Ipfencarbazon	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	<p>CAS Name: 3-(difluoromethyl)-1-methyl-N-[1,2,3,4-tetrahydro-9-(1-methylethyl)-1,4-methanonaphthalen-5-yl]-1H-pyrazole-4-carboxamide</p> <p>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 2 anti-isomers 3-(difluoromethyl)-1-methyl-N-[(1RS,4SR,9SR)-1,2,3,4-tetrahydro-9-isopropyl-1,4-methanonaphthalen-5-yl]pyrazole-4-carboxamide</p>
862.	Sedaxane	<p>CAS Name: N-[2-[1,1'-bicyclopropyl]-2-ylphenyl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide</p> <p>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</p>
863.	Solatenol	N-[(1RS,4SR)-9-(Dichloromethylidene)-1,2,3,4-tetrahydro-1,4-methanonaphthalen-5-yl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide
864.	Fosthiazate	<p>CAS Name: O-ethyl S-(1-methylpropyl) P-(2-oxo-3-thiazolidinyl)phosphonothioate</p> <p>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</p>
865.	Halauxifen -methyl	<p>CAS Name: methyl 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)-2-pyridinecarboxylate</p> <p>IUPAC Name: methyl 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)pyridine-2-carboxylate or methyl 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)picolinate</p>
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-Glucosamine	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-xylynonoyl]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-xylynonamido)-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-xylynonoyl]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-xylynonamido)-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-(dichloromethylene)-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-dimethylbutyrate CAS 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- $\alpha,\alpha,\alpha,2$ -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-yl]oxy}phenyl}(5,6-dihydro-1,4,2-dioxazin-3-yl)methanone Omethylxime CAS NAME: (1E)-(2-{[6-(2-chlorophenoxy)-5-fluoro-4-pyrimidinyl]oxy}phenyl)(5,6-dihydro-1,4,2-dioxazin-3-yl)methanone Omethylxime
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-otolyl)-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]carbonyl 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-fluoro-3-methoxyphenyl]-5-fluoro-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-[difluoromethyl]-N-methoxy-methyl-N[1-methyl-2-{2,4,6- trichlorophenyl}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- (trifluoromethyl)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-mesy]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-mesybenzoyl}-3-oxycyclohex-1-en-1-olate
914	Benzpyrimoxan	5-(1,3-dioxan-2-yl)-4-[4-(trifluoromethyl)benzyloxy]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-cyclopropylethynyl)-2-pyridinyl]-2-[(1-methylethoxy)imino]ethyl]-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	(\pm)-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	Florypicoxamid	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 15 January, 2020 Fenpropimorph, already exist at S.No 921		
Added vide notification No. S.O. 2582 (E) dated 29 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-((5R)-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	Ipflufenquin	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

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. PiperonylButoxide
12. 2-Phenyl Phenol
13. Nitrobenzene
14. Carbon Disulphide

MINISTRY OF HEALTH AND FAMILY WELFARE

(Food Safety and Standards Authority of India)

NOTIFICATION

New Delhi, the 24th December, 2018

No. 1-SP(PAR)- Notification-pesticide/stds-FSSAI/2017.—Whereas the draft of certain regulations further to amend the Food Safety and Standards (Contaminants, toxins and Residues) Regulations, 2011, was published as required under sub-section (1) of section 92 of the Food Safety and Standards Act, 2006 (34 of 2006) in the Gazette of India, Extraordinary, Part III, section 4 vide notification of the Food Safety and Standards Authority of India number F.No. 1-SP(PAR)- Notification-pesticide/stds-FSSAI/2017, dated the 27th December, 2017, inviting objections or suggestions from the persons likely to be affected thereby, before the expiry of the period of thirty days from the date on which the copies of the Official Gazette containing the said notification were made available to the public;

And whereas the copies of the said Official Gazette were made available to the public on the 8th January, 2018;

And whereas the objections and suggestions received from the public in respect of the said draft regulations have been considered by the Food safety and Standards Authority of India;

Now, therefore, in exercise of the powers conferred by clause (i) and clause (j) of sub-section (2) of section 92 read with section 21 of the said Act, the Food Safety and Standards Authority of India hereby makes the following regulations further to amend the Food Safety and Standards (Contaminants, toxins and Residues) Regulations, 2011, namely:-

1. Short title and commencement.- (1) These regulations may be called the Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2018.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Food Safety and Standards (Contaminants, toxins and Residues) Regulations, 2011, in regulation 2.3, for sub-regulation 2.3.1, the following sub-regulation shall be substituted, namely:-

‘2.3.1. Restriction on the use of insecticides:

(1) The expression “insecticide” shall have the meaning assigned to it in the Insecticide Act, 1968 (46 of 1968).

(2) Subject to the provisions of clause (3), no insecticides shall be used directly on articles of food:

Provided that nothing in this regulation shall apply to the fumigants which are registered and recommended for use as such on articles of food by the Registration Committee, constituted under section 5 of the Insecticides Act, 1968 (46 of 1968).

- (3) The insecticide specified in column (2) of the table shall not exceed the Maximum Residue Limits (MRL) prescribed in column (4), for the article of food specified in column (3) of the said table, namely:-

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-0.1 and 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)
2.	Acephate (expressed as mixture of Methamidophos and acephate).	Fruits	2
		Rice	1
		Safflower seed	2
		Cottonseed	2
		Milk and Milk products	0.02
3.	Acetamiprid	Meat and Meat products	0.05
		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
4.	Alachlor	Cotton seed Oil	0.1
		Cotton seed	0.05
		Groundnut	0.05
		Maize	0.1
5.	Alpha cypermethrin	Soya bean	0.1
		Cotton seed Oil	0.05
6.	Alpha naphthyl Acetic Acid	Pine apple	0.5
		Tomato	0.1
		Chilli	0.2
		Dried Chilli	2
		Mango	0.05
		Cotton seed Oil	0.05
		Grapes	0.05
7.	Ametroctradin	Pineapple	0.5
		Grapes	6
		Potato	0.05
		Cucumber	0.4
8.	Anilophos	Tomato	0.3
		Rice	0.1
9.	Atrazine	Cucumber	0.4
		Maize	0.01
10.	Azimsulfuron	Sugarcane	0.25
		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.	Chlorpyrifos	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.	Cinmethylen	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
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
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.	Diflubenuron	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.	Enamectin 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 ²
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 malaaxon)	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.	Metaxyl	Pearl Millet (Bajra)	0.05
		Maize	0.05
		Sorghum	0.05
120.	Metaxyl-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.	Oxadiazyl	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.	Penoxycuron	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

Approved and Registered Plant Protection Chemicals I 2021

		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.	Pyriithiolac 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.	Triacntanol	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.	Ametryn	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
200.	Sodium Para Nitro Phenolate	Soya bean Oil	0.02
		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.	Haloxypop-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 Difluoroacetic Acid and Difluoroethylamino- 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 LD₅₀ 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 aminophylline.**

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 XIII Chlorophenoxy 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.

Plant Protection Equipments

Nozzle

The nozzle performs four basic functions

- Atomizes liquid into droplets.
- Disperses the droplets in a specific pattern.
- Meters liquid at a certain flow rate.
- Provides hydraulic momentum.

The Nozzle Tip is one of the most important and least expensive part of a spraying system.

Hollow cone nozzles



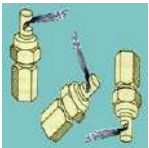
- These are used primarily where plant foliage penetration is essential for effective insect and disease control, and where drift is not a major consideration.
- At pressures of 40 – 8- psi hollow cone nozzles give excellent spray coverage to the undersides of reduces penetration correspondingly

Flat fan nozzles



- These are used largely for broadcast spraying, where foliar penetration and coverage are not essential.
- The best operating pressure for flat fan nozzles is 15 – 30 psi, which produce coarser droplets that are not susceptible to drift.

Floodjet nozzles



- These are ideal for high application rates and speeds, because they produce a wide-angle, flat fan pattern.
- Operating flood-jet nozzles at 5-25 psi minimizes drift, but pressure changes critically affect the width of the spray pattern.
- Generally, the spray generated by the floodjet is not as uniform as the flat-fan type.

Adjustable nozzles: This model is capable of producing a cone spray in various angles, and also a solid or broken jet spray.

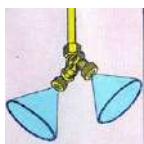
Single swivel nozzles



- Here the joint of the nozzle and extension rod is capable of swiveling without leakage, it can be locked for use at any angle between 0 – 180 degrees.

Plant Protection Equipments

Double swivel nozzles



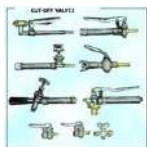
Double swivel nozzles

This has two swivel nozzles instead of one, capable of independent movement.

Double fixed nozzles

- Double fixed nozzles are fixed on the 'U' bend, which is, in turn, coupled with the end of a straight extension rod.
- NOTE: Single swivel, double swivel and double fixed nozzles come in both cones-spray and flat fan varieties.

Spray Boom



Spray boom

- This design consists of several nozzles mounted on a rod, ideally suited to row crops, and can be operated with foot / rocker / knapsack / power operated sprayers.

Things to Remember

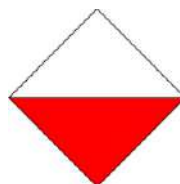
While Buying Plant Protection Products



Get the GST Bill



Read the safety Measures



Check the Label



Check the Hologram



Check for any Leakage



Check the Seal

While Using Plant Protection Products



Wear Mask



Wear Gloves



Wear PPE kit



Wear Safety Goggles



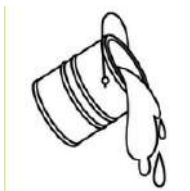
Wear Gum Boots



Wash your hands
after use

Things to Remember

While Spraying Plant Protection Products



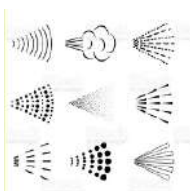
Don't Overuse



Spray in the
direction of wind



Spray as per
the prescription



Use Appropriate
Nozzle



Check the Pressure



Spray Evenly

While Storing Plant Protection Medicine



Keep Away from
Food and water



Keep it away
from Children



Keep it away from
Animals and Animal Feed



Store in Original
packing



Store in Cool & Dry Area



Store in Dark &
Well-ventilated area

Important Contacts

Ministry Of Agriculture and Farmer Welfare

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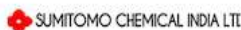


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