

LIST OF APPROVED/RECOMMENDED INSECTICIDES

NO	ACTIVE INGREDIENT(S)	CHEMICAL GROUP(S)	CLASS	TARGET CROP(S) AND ORGANISM(S)
1.	Abamectin	Biological	II	ORCHID: - <i>Brevipalpus californicus</i> (Mites) HIBISCUS: - <i>Myzus persicae</i> (Aphids) TOMATO: - <i>Aculops lycopersici</i> (Red spider mites) - <i>Tetranychus</i> sp. (Red spider mites) - <i>Liriomyza trifolii</i> (Leaf miner) WATER MELON: - <i>Chromatomyia horticola</i> (Leaf miner) - <i>Liriomyza trifolii</i> (Leaf miner) CUCUMBER: - <i>Bemisia tabaci</i> (Whitefly)
2.	Acetamiprid	Avermectin	III	CITRUS: - <i>Phyllocnistis citrella</i> (Leaf miner). OKRA: - <i>Aphis gossypii</i> (Aphids) - <i>Empoasca fabae</i> (Leafhopper) EGGPLANT: - <i>Aphis gossypii</i> (Aphids) - <i>Thrips palmi</i> (Thrips)

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				- <i>Empoasca fabae</i> (Leafhopper) TOMATO: - <i>Trialeurodes vaporariorum</i> (Whitefly) - <i>Leucinodes orbonalis</i> (Fruit and shoot borer) LONG BEAN: - <i>Empoasca fabae</i> (Leafhopper) - <i>Maruca testulalis</i> (Pod borer)
3.	Alpha-cypermethrin	Pyrethroid	II	TOMATO: - <i>Leucinodes orbonalis</i> (Fruit and shoot borer) PADDY: - <i>Chilo suppressalis</i> (Stemborer) - <i>Cnaphalocrocis medinalis</i> (Leaf folder) - <i>Leptocorisa acuta</i> (Rice bug) - <i>Scirpophaga incertulas</i> (Stemborer) - <i>Scotinophora coarctata</i> (Black bug) - <i>Sesamia inferens</i> (Stemborer)
4.	Alpha-cypermethrin + Fenobucarb	Pyrethroid + Carbamate	II	PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)

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5.	Amitraz	Triazapentadiene	III	CHILLI, DURIAN, FRENCH BEAN, CITRUS, PAPAYA, ROSE: - <i>Tetranychus</i> sp. (Red spider mites)
6.	Azadirachtin	Biological		PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)
7.	<i>Bacillus thuringiensis</i> subsp. <i>aizawai</i> 16,000 1.u./mg	Biological Bacterium	IV	BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth)
8.	<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i>	Biological Bacterium	IV	BROCCOLI, CABBAGE: - <i>Plutella xylostella</i> (Diamondback moth) - <i>Trichoplusia ni</i> (Inch caterpillar) TOMATO: - <i>Spodoptera</i> sp. (Armyworm)
9.	<i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> (3A, 3B)	Biological Bacterium	IV	CHILLI, TOMATO: - <i>Helicoverpa armigera</i> (Bud /fruit borer) CABBAGE: - <i>Plutella xylostella</i> (Diamondback moth)
10.	Beta-cyfluthrin	Pyrethroid	III	CITRUS:

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				- <i>Phyllocnistis citrella</i> (Leaf miner) FRENCH BEAN, LONG BEAN: - <i>Helicoverpa armigera</i> (Budworm) - <i>Maruca testulalis</i> (Pod borer) TOMATO: - <i>Leucinodes orbonalis</i> (Fruit and shoot borer) MAIZE: - <i>Helicoverpa armigera</i> (Bud caterpillar / fruit borer) - <i>Ostrinia salentialis</i> (Stemborer) TURF: - <i>Spodoptera pectans</i> (Armyworm)
11.	Beta-cypermethrin	Pyrethroid	III	LONG BEAN: - <i>Maruca testulalis</i> (Pod borer) TOMATO: - <i>Helicoverpa armigera</i> (Bud / fruit borer) MANGO: - <i>Chlumetia</i> sp. (Shoot borer) - <i>Idioscopus</i> sp. (Leaf hopper) PADDY:

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				- <i>Chilo polychrysa</i> (Stemborer) - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Hydrellia philippina</i> (Rice whorl maggot) - <i>Leptocorisa</i> sp. (Rice bug) - <i>Nephotettix</i> sp. (Green leaf hopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Tryporyza incertula</i> (Stemborer)
12.	Bifenthrin	Pyrethroid	III	ROSE: - <i>Tetranychus urticae</i> (Red spider mite)
13.	Bistrifluron	Benzoylurea	III	CABBAGE: - <i>Plutella xylostella</i> (Diamondback moth)
14.	Buprofezin	Thiadiazine	III	TOMATO: - <i>Trialeurodes vaporariorum</i> (Whitefly) PADDY: - <i>Nephotettix virescens</i> (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Recilia dorsalis</i> (Zigzag leafhopper) GUAVA: - <i>Aleurodicus dispersus</i> (Whitefly)

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				OKRA: - <i>Empoasca fabae</i> (Leafhopper) EGGPLANT: - <i>Bemisia tabaci</i> (Whitefly) - <i>Empoasca fabae</i> (Leafhopper)
15.	Buprofezin + Cartap hydrochloride	Thiadiazine + Thiocarbamate	III	PADDY: - <i>Chilo suppressalis</i> (Stemborer) - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Leptocorisa acuta</i> (Rice bug) - <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sesamia inferens</i> (Stemborer) - <i>Sogatella furcifera</i> (Whitebacked planthopper)
16.	Buprofezin + Esfenvalerate	Thiadiazine + Pyrethroid	III	PADDY: - <i>Chilo suppressalis</i> (Stemborer) - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Leptocorisa acuta</i> (Rice bug) - <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sesamia inferens</i> (Stemborer) - <i>Sogatella furcifera</i> (Whitebacked planthopper)
17.	Buprofezin + Isoprocarb	Thiadiazine	III	PADDY:

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		+ Carbamate		- <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sogatella furcifera</i> (Whitebacked planthopper)
18.	Carbaryl	Carbamate	III	OKRA: - <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer) PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper) CHINESE MUSTARD: - <i>Phyllotreta</i> sp. ORNAMENTAL PLANTS: - <i>Aphis</i> sp. EGGPLANT: - <i>Leucinodes orbonalis</i> (Fruit and shoot borer)
19.	Carbosulfan	Carbamate	II	LOOFAH: - <i>Epilachna dodecastigma</i> (Epilachna beetle) GERBERA FLOWER: - <i>Frankliniella occidentalis</i> (Thrips)

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				EGGPLANT: - <i>Amrasca biguttula</i> (Hopper) TOMATO: - <i>Leucinodes orbonalis</i> (Fruit and shoot borer) PAPAYA: - <i>Thrips palvispinus</i> (Thrips)
20.	Carbosulfan + Cypermethrin	Carbamate + Pyrethroid	II	CHILLI: - <i>Thrips palmi</i> (Thrips)
21.	Cartap hydrochloride	Thiocarbamate	III	CABBAGE, CHINESE CABBAGE: - <i>Aphis</i> sp. (Aphids) - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera litura</i> (Armyworm) PADDY: - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Spodoptera mauritia</i> , <i>Spodoptera litura</i> (Armyworm)
22.	Chlorantraniliprole	Diamide	III	OKRA: - <i>Spodoptera exigua</i> (Armyworm)

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				CHILLI: - <i>Helicoverpa armigera</i> (Bud / fruit borer) - <i>Spodoptera exigua</i> (Armyworm) MAIZE: - <i>Ostrinia furnacalis</i> (Cob borer) - <i>Spodoptera litura</i> (Armyworm) LONG BEAN: - <i>Maruca testulalis</i> (Pod borer) - <i>Spodoptera exigua</i> (Armyworm) TOMATO: - <i>Leucinodes orbonalis</i> (Fruit and shoot borer) CABBAGE, CHINESE MUSTARD: - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera exigua</i> (Armyworm) PADDY: - <i>Cnaphalocrosis</i> sp. (Leaf folder) - <i>Scirpophaga incertulas</i> (Stemborer)
23.	Chlorfenapyr	Arylpyrrole	III	CABBAGE: - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera exigua</i> (Armyworm)

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24.	Chlorfluazuron	Benzoylurea	III	OKRA: - <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer)
25.	Chromafenozide	Diacylhydrazine	III	CABBAGE, EGGPLANT: - <i>Spodoptera litura</i> (Armyworm)
26.	Clarified hydrophobic extract of neem oil + d-limonene	Biological	IV	TOMATO: - <i>Trialeurodus vaporariorum</i> (Whitefly)
27.	Cyantraniliprole	Diamide		LONG BEAN: - <i>Liriomyza sativae</i> (Leaf miner) CUCUMBER: - <i>Liriomyza sativae</i> (Leaf miner) - <i>Bemisia tabaci</i> (Whitefly) - <i>Thrips palmi</i> (Thrips) TOMATO: - <i>Liriomyza sativae</i> (Leaf miner) - <i>Bemisia tabaci</i> (Whitefly) CHILLI: - <i>Thrips palmi</i> (Thrips) - <i>Helicoverpa armigera</i> (Bud / fruit borer) EGGPLANT: - <i>Bemisia tabaci</i> (Whitefly) - <i>Thrips palmi</i> (Thrips)

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28.	Cyantraniliprole + Thiamethoxam	Diamide + Neonicotinoid	IV	CHILLI: - <i>Helicoverpa armigera</i> (Bud / fruit borer) LONG BEAN: - <i>Empoasca fabae</i> (leaf hopper) - <i>Maruca testulalis</i> (Pod borer) CHINESE KALE, CABBAGE, CHINESE MUSTARD: - <i>Plutella xylostella</i> (Diamondback moth)
29.	Cyfluthrin	Pyrethroid	III	CITRUS: - <i>Phyllocnistis citrella</i> (Leaf miner) CHILLI, FRENCH BEAN, LONG BEAN: - <i>Helicoverpa armigera</i> (Bud / fruit borer) TOMATO: - <i>Leucinodes orbonalis</i> (Fruit / shoot borer)
30.	Cypermethrin	Pyrethroid	III	CHILLI, TOMATO: - <i>Aphis</i> sp. (Aphid) - <i>Bactrocera</i> sp. (Fruitfly) - <i>Helicoverpa</i> sp. (Fruit borer) - <i>Thrips</i> sp. (Thrips)

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				TOMATO: - <i>Aphis gossypii</i> (Melon aphid) - <i>Bactrocera</i> sp. (Fruitfly) - <i>Helicoverpa armigera</i> (Bud / fruit borer) SPINACH: - <i>Hellula undalis</i> (Cabbage webworm) HIBISCUS, ROSE: - <i>Myzus persicae</i> (Green peach aphid) MANGO: - <i>Bactrocera</i> sp. (Fruitfly) WATERMELON: - <i>Aphis</i> sp. (Aphid)
31.	Cyromazine	Triazine	IV	ORNAMENTAL PLANTS: - <i>Liriomyza trifolii</i> (Leaf miner)
32.	Deltamethrin	Pyrethroids	II	OKRA: - <i>Amrasca devastans</i> (Leaf hopper) - <i>Aphis gossypii</i> (Melon aphid) - <i>Earias fabia</i> / <i>E.vitella</i> (Leaf miner) - <i>Earias insulana</i> (Fruit borer) CHILLI: - <i>Earias fabia</i> / <i>E.vitella</i> (Fruit borer)

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				- <i>Earias insulana</i> (Fruit borer) CABBAGE: - <i>Plutella xylostella</i> (Diamondback moth) TOMATO: - <i>Helicoverpa armigera</i> (Bud/ fruit borer) - <i>Leucinodes orbonalis</i> (Fruit/ shoot borer)
33.	Diafenthiuron	Thiourea	III	OKRA: - <i>Bemisia tabaci</i> (Whitefly) CHILI: - <i>Tetranychus urticae</i> (Red spider mites) BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth)
34.	Diafenthiuron + Fenoxycarb	Thiourea + Juvenile hormone mimic	II	BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth)
35.	Diiflubenzuron	Benzoylurea	IV	CABAGGE: - <i>Plutella xylostella</i> (Diamondback moth)

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				- <i>Spodoptera</i> sp. (Armyworm)
36.	Diflubenzuron + Alpha-cypermethrin	Benzoylurea + Pyrethroids	III	PADDY: - <i>Chilo</i> sp. (Striped rice stemborer) - <i>Scirpophaga incertulas</i> (Yellow rice stemborer) OKRA, EGGPLANT: - <i>Leucinodes orbonalis</i> (Fruit / shoot borer) BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth) GROUND NUT: - <i>Liriomyza</i> sp. (Leaf miner)
37.	Dimethoate	Organophosphate	II	SPINACH, MUSTARD PLANT: - <i>Aphis</i> sp. (Aphid) - <i>Hellula undalis</i> (Striped cabbage heart caterpillar) - <i>Phyllocnistis citrella</i> (Citrus leaf miner) - <i>Tetranychus</i> sp. (Red spider mites) - <i>Thrips</i> sp. (Thrips) CHILLI: - <i>Aphis</i> sp. (Aphid) - <i>Thrips</i> sp. (Thrips)

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				FRENCH BEAN, LONG BEAN: - <i>Aleurodicus dispersus</i> (Whitefly) - <i>Melanagromyza phaseoli</i> (Bean fly) - <i>Phyllocnistis citrella</i> (Citrus leaf miner) - <i>Tetranychus</i> sp. (Red spider mites) - <i>Thrips</i> sp. (Thrips) PADDY: - <i>Chilo polychrysa</i> (Darkheaded rice borer) - <i>Leptocorisa</i> sp. (Rice bug) - <i>Nephotettix</i> sp. (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sesamia inferens</i> (Pink rice stemborer) - <i>Sogatella furcifera</i> (White backed planthopper) - <i>Tryporyza incertula</i> (Yellow stemborer)
38.	Dimethoate + Cypermethrin	Organophosphate + Pyrethroids	II	COFFEE: - <i>Aphis</i> sp. (Aphid) - <i>Coccus viridis</i> (Green scale) - <i>Planococcus</i> sp. (Mealybug) - <i>Thrips</i> sp. (Thrips) OKRA:

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				- <i>Aphis</i> sp. (Aphid) - <i>Tetranychus</i> sp. (Red spider mites) - <i>Thrips</i> sp. (Thrips) BRASSICA: - <i>Aphis</i> sp. (Aphid) - <i>Hellula undalis</i> (Striped cabbage heart caterpillar) - <i>Phytomyza</i> sp. (Leaf miner)
39.	Dinotefuran	Dinotefuran	III	SWEET PEA: - <i>Liriomyza</i> sp. (Leaf miner)
40.	Emamectin benzoate	Avermectin	III	BRASSICA: - <i>Spodoptera litura</i> (Army worm) - <i>Plutella xylostella</i> (Diamondback moth) TOMATO: - <i>Helicoverpa armigera</i> (Bud / fruit borer) - <i>Leucinodes orbonalis</i> (Fruit / shoot borer) OKRA: - <i>Earias fabia</i> / <i>E.vitella</i> (Spotted bollworm) MAIZE: - <i>Ostrinia furnacalis</i> (Asia corn borer)

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41.	Esfenvalerate	Pyrethroids	III	CITRUS: - <i>Phyllocnistis citrella</i> (Citrus leaf miner) CHILLI: - <i>Aphis gossypii</i> (Melon aphid) - <i>Plusia chalcites</i> (Tomato looper) - <i>Spodoptera litura</i> (Armyworm) CUCUMBER: - <i>Agrotis ipsilon</i> (Black cut worm) - <i>Helicoverpa assulta</i> (Oriental tobacco budworm) - <i>Plusia chalcites</i> (Tomato looper) TOMATO: - <i>Agrotis ipsilon</i> (Black cut worm) - <i>Aphis gossypii</i> (Melon aphid) - <i>Helicoverpa assulta</i> (Oriental tobacco budworm) - <i>Plusia chalcites</i> (Tomato looper) - <i>Trialeurodes vaporariorum</i> (Green house whitefly) CABBAGE: - <i>Agrotis ipsilon</i> (Black cut worm) - <i>Plusia chalcites</i> (Tomato looper) - <i>Plutella xylostella</i> (Diamondback moth)
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				- <i>Spodoptera litura</i> (Armyworm)
42.	Ethiprole	Phenylpyrazole	IV	PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)
43.	Ethiprole + Imidacloprid	Phenylpyrazole + Neonicotinoid	III	PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)
44.	Etofenprox	Pyrethroid		PADDY: - <i>Cnaphalocrocis medinalis</i> (Rice leaf folder) - <i>Nephotettix virescens</i> (Green rice leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Scirpophaga incertulas</i> (Yellow stemborer)
45.	Fenazaquin	METI acaricide	II	CITRUS: - <i>Panocychus citri</i> (Citrus red mites) - <i>Phyllocoptruta oleivora</i> (Citrus rust mites) WATERMELON: - <i>Tetranychus urticae</i> (Red spider mites)
46.	Fenobucarb	Carbamate	II	PADDY:

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				- <i>Cnaphalocrosis</i> sp. (Rice leaf folder) - <i>Leptocorisa acuta</i> (Paddy stink bug) - <i>Nephotettix virescens</i> (Green rice leafhopper) - <i>Valanga nigricornis</i> (Short horned grasshopper)
47.	Fenpropathrin	Pyrethroid	II	CITRUS: - <i>Aleurodicus dispersus</i> (Whitefly) - <i>Panocychus citri</i> (Citrus red mites) - <i>Tetranychus urticae</i> (Red spider mites) POMELO: - <i>Aleurodicus dispersus</i> (Whitefly) - <i>Tetranychus urticae</i> (Red spider mites) CHILLI, TOMATO: - <i>Helicoverpa armigera</i> (Bud / fruit borer)
48.	Fenpyroximate	METI acaricide	IV	CHILLI: - <i>Polyphagotarsonemus latus</i> (Broad mites) ROSE: - <i>Tetranychus urticae</i> (Red spider mites)

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49.	Fenthion	Organophosphate	II	CARAMBOLA, CITRUS, MANGO, CUCUMBER: - <i>Bactrocera</i> sp. (Fruitfly) GUAVA: - <i>Aphis</i> sp. (Aphid) - <i>Bactrocera</i> sp. (Fruitfly) PADDY: - <i>Leptocorisa acuta</i> (Paddy stink bug) - <i>Scotinophora coarctata</i> (Rice black bug)
50.	Fenvalerate	Pyrethroid	III	SPINACH, CABBAGE: - <i>Agrotis ipsilon</i> (Black cut worm) - <i>Spodoptera litura</i> (Armyworm) CHINESE CABAGGE: - <i>Agrotis ipsilon</i> (Black cut worm) - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera litura</i> (Armyworm)
51.	Fipronil	Phenylpyrazole	II	PADDY: - <i>Stenchaetothrips biformis</i> (Rice thrips) - <i>Chilo suppressalis</i> (Asiatic stem borer) - <i>Cnaphalocrocis medinalis</i> (Rice leaf folder) - <i>Nilaparvata lugens</i> (Brown planthopper)

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				- <i>Scotinophora coarctata</i> (Rice black bug) - <i>Sesamia inferens</i> (Pink rice stemborer) CHILLI, WATERMELON: - <i>Haplothrips floricola</i> (Thrips) EGGPLANT: - <i>Thrips palmi</i> (Melon thrips) SUGARCANE: - <i>Microtermes obesi</i> (Wheat termites)
52.	Fipronil + Imidacloprid	Phenylpyrazole + Neonicotinoid	II	PADDY: - <i>Cnaphalocrocis medinalis</i> (Rice leaf folder)
53.	Flubendiamide	Diamide	IV	BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth)
54.	Gamma-cyhalothrin	Pyrethroid	IV	CHILI: - <i>Helicoverpa armigera</i> (Bud / fruit borer) - <i>Spodoptera litura</i> (Armyworm) LONG BEAN: - <i>Maruca testulalis</i> (Pod borer)

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				CABBAGE: - <i>Spodoptera litura</i> (Armyworm)
55.	Hexythiazox	Mite growth inhibitor	IV	ORNAMENTAL PLANTS: - <i>Tetranychus</i> sp. (Red spider mites) CITRUS: - <i>Panocychus citri</i> (Citrus red mites) <i>Tetranychus</i> sp. (Red spider mites)
56.	Imidacloprid	Neonicotinoid	III	SPINACH: - <i>Thrips</i> sp. (Thrips) CHILLI: - <i>Aphis</i> sp. (Aphid) - <i>Bemisia tabaci</i> (Potato whitefly) - <i>Thrips palmi</i> (Melon thrips) MANGO: - <i>Idioscopus clypealis</i> (Mango leafhopper) PADDY: - <i>Nephotettix virescens</i> (Green rice leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Sogatella furcifera</i> (White backed planthopper)

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				EGGPLANT: - <i>Empoasca fabae</i> (Potato leafhopper)
57.	Imidacloprid + Beta-cyfluthrin	Neonicotinoid + Pyrethroid	II	CHILLI, TOMATO: - <i>Bemisia tabaci</i> (Potato whitefly) - <i>Helicoverpa armigera</i> (Bud / fruit borer) - <i>Thrips palmi</i> (Melon thrips)
58.	Imidacloprid + Cyfluthrin	Neonicotinoid + Pyrethroid	III	CHILLI: - <i>Thrips palmi</i> (Melon thrips) FRENCH BEAN, LONG BEAN: - <i>Maruca testulalis</i> (Pod borer) EGG PLANT: - <i>Thrips palmi</i> (Melon thrips) - <i>Bemisia tabaci</i> (Potato whitefly) TOMATO: - <i>Bemisia tabaci</i> (Potato whitefly)
59.	Indoxacarb	Oxadiazine	III	PADDY: - <i>Cnaphalocrocis medinalis</i> (Leaf folder) BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth) - <i>Spodoptera litura</i> , <i>S.exigua</i> (Armyworm)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

				CHILLI: - <i>Helicoverpa armigera</i> (Fruit borer) - <i>Spodoptera litura</i>, <i>S.exigua</i> (Armyworm) LONG BEAN: - <i>Maruca testulalis</i> (Pod borer) TOMATO: - <i>Leucinodes orbonalis</i> (Shoot / Fruit borer) - <i>Helicoverpa armigera</i> (Fruit borer) - <i>Spodoptera litura</i>, <i>S.exigua</i> (Armyworm)
60.	Lambda-cyhalothrin	Pyrethroid	II	OKRA: - <i>Earias fabia</i>, <i>E.vitella</i> (Fruit borer)
61.	Lufenuron	Benzoylurea	IV	CHILLI, LONG BEAN, EGGPLANT: - <i>Helicoverpa armigera</i> (Fruit borer) - <i>Maruca testulalis</i> (Pod borer) - <i>Leucinodes</i> sp. (Shoot/Fruit borer) MAIZE: - <i>Helicoverpa</i> sp., <i>Ostrinia</i> sp. (Fruit borer) PAPAYA, ROSE APPLE, CARAMBOLA: - <i>Helicoverpa assulta</i> (Budworm)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

62.	Malathion	Organophosphate	III	CARAMBOLA, CITRUS, CHILLI, EGGPLANT, TOMATO, CUCUMBER, CHINESE CABBAGE, LONG BEAN, SPINACH, ORCHID, ROSE: - <i>Aphis gossypii</i>, <i>A.craccivora</i> (Aphids) - <i>Planococcus citri</i> (Mealybug) - <i>Thrips palmi</i> (Thrips) - <i>Tetranychus urticae</i> (Red mites) EGGPLANT, TOMATO, CHINESE CABBAGE, SPINACH: - <i>Phyllotreta sinuata</i> (Flea beetle) PADDY: - <i>Cnaphalocrosis medinalis</i> (Leaf folder) - <i>Nephotettix virescens</i> (Green leafhopper) - <i>Nilaparvata lugens</i> (Brown planthopper) - <i>Nymphula depunctalis</i> (Caseworm) - <i>Spodoptera litura</i> (Armyworm)
63.	Metaflumizone	Semicarbazone	IV	CABBAGE: - <i>Phyllotreta</i> sp. (Flea beetle) - <i>Pieris rapae</i> (Cabbage white butterfly) - <i>Plutella xylostella</i> (Diamondback moth)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

64.	<i>Metarhizium anisopliae</i> var. <i>major</i>	Biological Entomopathogenic fungus	IV	COCONUT: - <i>Oryctes rhinoceros</i> (Rhino beetle)
65.	Methoxyfenozide	Diacylhydrazine	IV	CHILLI, EGGPLANT: - <i>Helicoverpa armigera</i> (Fruit borer) - <i>Spodoptera exigua</i> (Armyworm) LONG BEAN: - <i>Maruca testulalis</i> (Pod borer) TOMATO: - <i>Leucinodes orbonalis</i> (Shoot / Fruit borer)
66.	Garlic oil	Biological	III	CHILLI: - <i>Thrips palmi</i> (Thrips) CUCUMBER: - <i>Trialeurodes vaporariorum</i> (Whitefly) BLACK PEPPER: - <i>Diconocoris hewetti</i> (Tingid bug)
67.	Permethrin	Pyrethroid	II	OKRA: - <i>Earias fabia</i> , <i>E.vitella</i> (Fruit borer) - <i>Aphis</i> sp. (Aphids) CABBAGE: - <i>Brevicoryne brassicae</i> (Cabbage aphids)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

				- <i>Plutella xylostella</i> (Diamondback moth) EGGPLANT: - <i>Leucinodes orbonalis</i> (Shoot / Fruit borer) TOMATO: - <i>Aphis</i> sp. (Aphids)
68.	Phenthoate	Organophosphate	IV	PADDY: - <i>Cnaphalocrocis medinalis</i> (Leaf folder) - <i>Spodoptera litura</i> (Armyworm)
69.	Potassium oleate	Inorganic	IV	CHILLI, TOMATO: - <i>Trialeurodus</i> sp. (Whitefly)
70.	Propoxur	Carbamate	II	COCOA: - <i>Conopomorpha cramerella</i> (Pod borer)
71.	Pymetrozine	Selective feeding blocker	IV	PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)
72.	Pyridaben	Pyridazinone	III	ORNAMENTAL PLANTS: - <i>Bemisia tabaci</i> (Whitefly) ROSE, CITRUS: - <i>Tetranychus urticae</i> (Red mites)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

73.	Pyridalyl	-	IV	CHILLI: - <i>Helicoverpa armigera</i> (Fruit borer) CABBAGE: - <i>Spodoptera litura</i> (Armyworm) - <i>Hellula undalis</i> (Webworm) - <i>Plutella xylostella</i> (Diamondback moth)
74.	Pyriproxyfen	Juvenile hormone mimic	IV	TOMATO, GUAVA: - <i>Bemisia tabaci</i>, <i>Trialeurodes vaporariorum</i>, <i>Aleurodicus disperses</i> (Whitefly)
75.	Spinetoram	Synthesized from naturally-occurring spinosyns	IV	CHILLI, EGGPLANT: - <i>Thrips palmi</i> (Thrips) CHILLI, TOMATO: - <i>Leucinodes orbonalis</i>, <i>Helicoverpa armigera</i> (Fruit borer) LONG BEAN - <i>Maruca testulalis</i> (Pod borer)
76.	Spinosad	Synthesized from naturally-occurring spinosyns	IV	CARAMBOLA, GUAVA, CITRUS, MANGO, POMELO: - <i>Bactrocera</i> sp. (Fruitfly)
77.	Spirodiclofen	Tetronic acid	III	CHILLI, EGGPLANT, CITRUS, MANGO:

LIST OF APPROVED/RECOMMENDED INSECTICIDES

				- <i>Polyphagotarsonemus latus</i>, <i>Tetranychus</i> sp. (Mites)
78.	Tetradifon		IV	PAPAYA, CITRUS, GUAVA, MANGO, STRAWBERRY, WATERMELON, SUGARCANE, ORNAMENTAL PLANTS: - Red mites (<i>Tetranychus</i> sp.)
79.	Thiamethoxam	Neonicotinoid	IV	TOMATO, EGGPLANT: - <i>Aleurodicus disperses</i>, <i>Bemisia tabaci</i> (Whitefly) EGGPLANT, OKRA: - <i>Empoasca fabae</i> (Leafhopper) CITRUS: - <i>Diaphorina citri</i> (Leafhopper) - <i>Toxoptera citricida</i> (Aphids) MANGO: - <i>Megarulothrips</i> sp. (Thrips) PADDY: - <i>Nilaparvata lugens</i> (Brown planthopper)
80.	Thiamethoxam + Chlorantraniliprole	Neonicotinoid + Diamide	III	BRASSICA: - <i>Plutella xylostella</i> (Diamondback moth)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

				FRENCH BEAN: - <i>Maruca testulalis</i> (Pod borer) EGGPLANT: - <i>Bemisia tabaci</i> (Whitefly) - <i>Empoasca fabae</i> (Leafhopper) TOMATO: - <i>Leucinodes orbonalis</i> (Fruit borer)
81.	Thiamethoxam + Lambda-cyhalothrin	Neonicotinoid + Pyrethroid	II	LONG BEAN: - <i>Empoasca fabae</i> (Leafhopper) - <i>Maruca testulalis</i> (Pod borer) - <i>Megalurothrips usitatus</i> (Thrips) TOMATO: - <i>Bemisia tabaci</i> (Whitefly) EGGPLANT: - <i>Bemisia tabaci</i> (Whitefly) - <i>Empoasca fabae</i> (Leafhopper) CHILLI: - <i>Bemisia tabaci</i> (Whitefly) - <i>Helicoverpa armigera</i> (Fruit borer) OKRA: - <i>Spodoptera litura</i> (Armyworm) - <i>Empoasca fabae</i> (Leafhopper)

LIST OF APPROVED/RECOMMENDED INSECTICIDES

				- <i>Dysdercus cingulatus</i> (Red cotton bug) PADDY: - <i>Leptocorisa oratorius</i> (Rice bug) BRASSICA: - <i>Phyllotreta vittata</i> (Flea beetle)
82.	Thiocyclam-hydrogen oxalate	Nereistoxin analogue	III	TOMATO: - <i>Leucinodes orbonalis</i> (Fruit borer) - <i>Chromatomyia horticola</i> (Leaf miner)
83.	Tolfenpyrad	METI acaricide	II	BRASSICA: - <i>Phyllotreta striolata</i> (Flea beetle) - <i>Plutella xylostella</i> (Diamondback moth)
84.	White oil	Mineral oil	IV	PAPAYA, CITRUS, MANGO, ORCHID, ROSE: - <i>Coccus</i> sp., <i>Aonidiella</i> sp. (Scale insects) GUAVA, HIBISCUS: - <i>Planococcus</i> sp. (Mealybug)