

### *List of Insecticide*

| Sl.No | Trade name                    | Chemical Composition                       | Mode of Action | Active ingredient | Recmdn.       | Against   |
|-------|-------------------------------|--|----------------|-------------------|---------------|---|
| 1     | Acephate/<br>Asatof/Starthene | O-S Dimethyl<br>acetylphosphoramidothioate | S              | 75% wp            | 0.75-1 g/ltr  | Aphids, jassids, bollworms  |
| 2     | Actara                        | Thiamethoxam                               | S              | 25%               | 0.2g/l        | Sucking pest,<br>Aphids,Hoppers,WF,Root grub  |
| 3     | Admire                        | Imidacloprid                               | S              | 70% WG            | 0.5-0.8ml/ltr | Sucking pests   |
| 4     | Avaunt                        | Indoxacarb                                 | C              | 15.8%EC           | 0.5-0.8ml/ltr | DBM,Bollworm  |
| 5     | Confidor                      | Imidacloprid                               | S              | 17.80%            | 0.25-0.5ml/l  | Sucking pests   |
| 6     | Corogen                       | Chlorantraniliprole                        | C              | 18.50%            | 0.5 ml/l      | Borer & Caterpillar   |
| 7     | Curacron                      | Profenofos                                 | C              | 50% EC            | 1.5-2 ml/l    | Bollworm, sucking pests (15dsys)  |
| 8     | Cymbush                       | Cypermethrin                               | C              | 25% EC            | 0.5ml/l       | Borer, bollworm, sucking pests  |
| 9     | Decis                         | Deltamethrin                               | C              | 2.8% EC           | 1ml/l         | Leafminor, white flies  |
| 10    | Dursban                       | Chlorpyrifos                               | C              | 20% EC            | 1.5-2.5 ml/l  | Leaf hopper, BPH, termites, sucking<br>pests  |
| 11    | Ekalux                        | Quinolphos                                 | C              | 25%               | 0.5-1.5ml/l   | sucking pests, borer,   |
| 12    | Fame                          | Flubendiamide                              | S              | 39.35%            | 1 ml/l        | Borer & Caterpillar   |
| 13    | Furadon/Tata<br>Furan         | Carbofuron                                 | S              | 3%G               | 5 kg/acre     | stem borer,cutworm white<br>grub,termite,shootfly,stem<br>borer,aphids,thrips,jassids |
| 14    | Hostathian                    | Triazophos                                 | CTL            | 40% EC            | 1ml/ltr       | Leaf minor, white flies   |
| 15    | Jump                          | Fipronil                                   | S              | 80%               | 0.2g/l        | Sucking pests   |
| 16    | Karate                        | Lambda-cyhalothrin                         | C              | 5% EC             | 0.5ml/ltr     | Borer, weevils, aphids, jossids,<br>thrips, whiteflies                                |
| 17    | Colonel-S                     | Dicofol                                    | C              | 18.50%            | 2.7ml/l       | Mites   |
| 18    | Lannate                       | Methomyl                                   | C              | 40%               | 1 ml/l        | Bollworms, borer, succing pests   |

|    |                    |                           |                        |         |              |  |
|----|--------------------|---------------------------|------------------------|---------|--------------|--|
| 19 | Larvin             | Thiodicarb                | C                      | 75%WP   | 2-3 g/l      | Bollworm,shoot & fruit borer,pod borer, DBM                              |
| 20 | Magister           | Fenazaquin                | S                      | 10%     | 0.5 ml/l     | Mites  |
| 21 | Malathion          | Melathion                 | S                      | 50% EC  | 1 ml/l       | caterpillars,fruitborer,gallmidge fly,leaf eating caterpillar,stem borer |
| 22 | Marshal [liquid]   | Carbosulfan               | C                      | 25% EC  | 1-1.5ml/l    | Aphid, borer, hoppers  |
| 23 | Matador            | Lambda-cyhalothrin        | C                      | 4.9% EC | 0.5 - 0.7 ml | Borer in paddy & cotton  |
| 24 | Metasystox         | Oxidematon methyle        | S                      | 25%EC   | 2 ml/l       | Sucking pests  |
| 25 | Nuvan              | Dichlorvos                | C                      | 76%EC   | 0.5-1.0ml/l  | cut worms, leaf roller, aphids, sucking pests                            |
| 26 | Monostar/Tata Mono | Monocrotophos             | C                      | 36%     | 1ml          | Sucking pests, bollworm  |
| 27 | Oberan             | Spiromesifen              | C                      | 22.9%   | 0.2ml/l      | Mites  |
| 28 | Politrin-C         | Profenofos + Cypermethrin | C                      | 40 %+4% | 1-1.5ml/l    | Bollworm, sucking pests (15dsys)   |
| 29 | Pegasus            | Diafenthuron              | C                      | 50%     | 1.25g/l      | Pod borer, fruit borer,  |
| 30 | Proclaim           | Emamectin benzoate        | Biological insecticide | 5% SG   | 00.5g/ltr    | Bolworm, fruit & shoot borer   |
| 31 | Regent             | Fipronil                  | C & S                  | 5%      | 1-1.5ml/l    | Borer, bollworm, sucking pests   |
| 32 | Pride/ Rekord      | Acetamiprid               | S                      | 20% SP  | 0.2 g/l      | Aphids,jassids,thrips,whitefly   |
| 33 | Rogar              | Dimethoate                | S                      | 30%     | 1-1.3ml/l    | Borer, mites, catterpillars, sucking pests                               |
| 34 | Sevin              | Carbaryl                  | C                      | 50% WDP | 4g/l         | Borer, bollworm, sucking pests   |
| 35 | Spark              | Deltamethrin + Triazophos | C                      | 1%+35%  | 1.5ml        | Sucking pests, bollworm & leaf minor                                     |
| 36 | Starphor           | Phorate                   | S                      | 10%     | 25-30 kg/ha  | Trrmites,nematodes   |
| 37 | Thimet             | Phorate                   | S                      | 10%G    | 30kg/ha      | Termites, nematodes  |
| 38 | Vertimac           | Abamectin                 | S                      | 1.90%   | 0.25 - 0.5ml | Spoders & mites in ornamentals   |
| 39 | Wettasul -80       | Sulphur                   | C                      | 80% WP  | 2-5g/l       | Mites  |

### *List of Fungicide & Bactericide*

| Sl..No | Trade name             | Chemical concentration | Mode of Action | Active ingredient | Recmdn.         | Against                                |
|--------|------------------------|------------------------|----------------|-------------------|-----------------|--|
| 1      | Aliette                | Fosetyl-AL             | S              | 80 % WP           | 1 g/l           | DM                                     |
| 2      | Amistar                | Azyoxystrobin          | S              | 23% SC            | 1ml/ ltr        | DM & PM in vegetables & grapes         |
| 3      | Aureofungin            | Aureofungin            | S              | 46.15 SP          | 0.1 g/lit       | Bacterial diseases                     |
| 4      | Beam                   | Tricyclazole           | S              | 75% WP            | 0.5 - 0.8g      | Paddy blast & sheath blight            |
| 5      | Bavistin               | Carbendazim            | S              | 50%               | 2g/Kg or 0.5g/l | Blasts, blight, PM, rots, wilts        |
| 6      | Bayleton               | Traidimefon            | S              | 25% WP            | 0.5g            | Powdery mildew & Rust (25-40 days)     |
| 7      | Benomyl/Benofit        | Benomyl                | S              | 50% WP            | 0.5ml/l         | PM, Anthracnose, leaf spot, rots, rust |
| 8      | Blitox                 | COC                    | C              | 50% WP            | 2.5ml/l         | Rots, leaf spots, damping off,         |
| 9      | Calixin                | Tridemorph             | S              | 80% EC            | 0.5 -1 ml/lit   | PM, wilts                              |
| 10     | Captan/ Foltaf/ Captaf | Captan                 | C              | 50% WP            | 2 - 2.5g/ltr    | Damping off, rots                      |
| 11     | Contaf                 | Hexaconazole           | S              | 5%                | 0.5-1ml/l       | PM                                     |

|    |                 |                          |       |              |             |   |
|----|-----------------|--------------------------|-------|--------------|-------------|---|
| 12 | Cuman           | Ziram                    | C     | 27% SL       | 1ml/ltr     | Blight, DM, Anthracnose                                 |
| 13 | Curzate M8      | Cymoxanil + Mancozeb     | C & S | 8 % + 64 %   | 3 g/l       | Late blight, DM   |
| 14 | Equation Pro    | Famoxadone +Cymoxanil    | C & S | 16.6 %+22.1% | 1 ml/l      | Late blight,DM  |
| 15 | Folicur         | Tebuconazole             | S     | 25.9% m/m    | 2.5 ml/l    | Tikka, Rust, Sheath blight,Dieback, Anthracnose,Spots   |
| 16 | IM-45/Abic M-45 | Indofil-Mancozeb         | C     | 45%          | 2-2.5g/l    | Blasts, blight, DM, rots, Leaf spots, buck eye rot,     |
| 17 | Kavach          | Chlorthalonil            | C     | 75%          | 1-2g/l      | Fruit rots, rust, blight, DM (Grape) (10-60 days)       |
| 18 | Karathane       | Dinocap                  | S     | 48% EC       | 0.3-0.5ml/l | PM  |
| 19 | Kocide          | Copper hydroxide         | C     | 77WP         | 2 g/l       | Anthracnose, Cercospora,Leaf spot                       |
| 20 | Quintal 50WP    | Iprodione + Carbendazime | C & S | 25% +25%     | 1g/ltr      | Sheath blight & blast in rice                           |
| 21 | Ridomil         | Metalaxyl + Mancozeb     | C & S | 4%+ 64%      | 1-1.5g/lt   | Wilts, leaf spots, downy mildew, fruit rot, late blight |
| 22 | Rovral          | Iprodione                | C     | 50 WP        | 1g/lit      | Botrytis,Damping off,Wilt,Early and late blight&molds   |
| 23 | Rubigan -f      | Fenarimol                | S     | 12 % EC      | 0.5 ml/l    | PM  |

|    |                     |                                     |   |          |          |  |
|----|---------------------|-------------------------------------|---|----------|----------|--|
| 24 | Streptocycline      | Streptomycin sulphate +Tetracycline | S | 90%+ 10% | 0.1g/l   | bacterial diseases                               |
| 25 | Tilt                | Propiconazole                       | S | 25% EC   | 0.5ml/l  | Rust, leaf spots, blight,                        |
| 26 | Topsin/ Roko/ Moti  | Thiophenate-Methyl                  | C | 70%      | 1g/l     | Anthrachnose, PM, Blight, Blast, Smut, Wilt, Rot |
| 27 | Topas               | Penconazole                         | S | 10 % EC  | 0.5 ml/l | PM   |
| 28 | Wet.Sulphur/ sulfex | Wettable sulphur                    | C | 80%      | 2-5g/l   | PM, mites  |

### List of Organic Chemicals

| Sl.No | Trade name | Chemical concentration     | Active ingredient | Recmdn.   | Against                                      |
|-------|------------|----------------------------|-------------------|---|--|
| 1     | Adhar      | <i>Azospirillum</i>        |                   | 500g + 500ml water + Ragi ganji/ kg seed or 2-3 Kg + 20Kg FYM/ acre |  |
| 2     | Azab       | <i>Azotobacter</i>         |                   |   |  |
| 3     | Biocatch   | <i>verticillium lecani</i> |                   | 2g/lit  | Aphids,Scales,Thrips,mealy bugs and nematode |
| 4     | Cal-MB     | Organic based product      |                   | 1-2ml/ltr   | Sucking pests, leaf minor                    |
| 5     | Cal-Nova   | Organic based product      |                   | 2 ml/lit  |  |
| 6     | Cal-Paste  | Organic based product      |                   | 2ml/lit   |  |

|    |   |  |    |                  |   |
|----|---|--|----|------------------|---|
| 7  | Caltika   | Amino acids, Vit B1, B2, B6 & Folic acid |    | 5ml/ltr          | Growth promoter                               |
| 8  | Delfin  | <i>Bt var Kurstaki</i>                   |    | 0.5g/lit         | DBM : Cabbage & Cauliflower                   |
| 9  | Humicil   | Humic acid 6%                            | 6% | 5-10ml/ Kg seeds | Humic acid @ 1.5% for nursery sprays @ 1g/ltr |
| 10 | Lipel   | <i>Bacillus thuringiensis</i>            |    | 0.50%            | Bollworm, borer, leaf roller                  |
| 11 | Meta  | <i>Metarhizium</i>                       |    |                  |   |
| 12 | Neem top  | <i>Neemseed extract</i>                  |    | 5 ml/l           | Sucking pests                                 |
| 13 | Rhizobium/<br>Sunrise                             | Rhizobium                                |    |                  |   |
| 14 | Shakti  | Potassium bacteria                       |    |                  |   |
| 15 | Trishul   | VAM                                      |    |                  |   |
| 16 | Trichoderma/<br>Nisarga/ Bio-cure<br>F/ Rakshak-V | <i>T. viridae</i> 1%                     | 1% | 4g/kg            | Seed treatment for rot, wilt, damping off     |
| 17 | Varsha  | <i>Verticillium</i>                      |    |                  |   |

### **List of Herbicide**

| Sl..No | Trade name | Chemical concentration | Active ingredient | Recmdn.   | Against |
|--------|------------|------------------------|-------------------|-----------|---------|
| 1      | Gramoxone  | Paraquat dichloride    | 24% SL            | 2.5-4ml/l | Weeds   |
| 2      | Oxy gold   | Oxyfluorfen            | 23.5% EC          | 2 ml/lit  | Weeds   |
| 3      | Round -up  | Glyphosate             | 41% SL            | 2ml/l     | Weeds   |
| 4      | Stomp      | Pendimethalin          | 30% EC            | 2ml/l     | Weeds   |
|        |            |                        |                   |           |         |