



**Government of India**  
**Ministry of Agriculture & Farmers Welfare**  
**Department of Agriculture, Cooperation & Farmers Welfare**  
**Directorate of Plant Protection, Quarantine & Storage**  
**Central Insecticides Board & Registration Committee**  
**N.H. IV, Faridabad-121 001**

## **Major Uses of Pesticides**

(Registered under the Insecticides Act, 1968)

**(UPTO - 30/06/2020)**

(Based on certificate issued)

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

### **HERBICIDES**

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## 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)		
<b>Alachlor 50% EC</b> (The use of Alachlor shall be completely banned with effect from the 31 <sup>st</sup> December 2020)					
Cotton	<i>Digera arvensis</i> <i>Echinochloa colonum</i> <i>Eragrostis major</i> <i>Euphorbia hirta</i> <i>Phyllanthus niruri</i> <i>Portulaca oleracea</i> <i>Trianthema portulacastrum</i> <i>Flaveria australasica</i> <i>Gynandropsis pentaphylla</i>	2-2.5 kg	4-5 ltrs.	250-500	210-240
Maize	<i>Echinochloa colonum</i> , <i>Euphorbia hirta</i> <i>Eleusine indica</i>	2.5 kg	5 ltrs.	250-500	90
Groundnut	<i>Amaranths viridis</i> <i>Digitaria spp.</i> <i>Echinochloa spp.</i> <i>Euphorbia hirta</i> <i>Phyllanthus niruri</i> <i>Portulaca oleracea</i> <i>Trianthema portulacastrum</i> <i>Acanthosermum hispidum</i> <i>Flaveria australasica</i>	2.5 kg	5 ltrs.	250-500	120-150
Soybean	<i>Amaranthus viridis</i> <i>Cleome viscose</i> <i>Cyperus iria</i> <i>Dactyloctenium aegyptium</i> <i>Echinochloa spp.</i> <i>Eleusine indiaca</i> <i>Setaria glauca</i>	2.5 kg	5 ltrs.	250-500	
<b>Alachlor 10% GR</b> (The use of Alachlor shall be completely banned with effect from the 31 <sup>st</sup> December 2020)					
Cotton	<i>Dactyloctenium aegyptium</i>	2.0-2.5 Kg	20-25 Kg	-	-

Maize / Groundnut / Soybean	<i>Digitaria spp.,</i> <i>Echinochloa spp.,</i> <i>Chenopodium album</i>	1.5-2.5 Kg	15-25 Kg	-	-
<b>Ametryne 80% WDG</b>					
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
<b>Anilofos 30% EC</b>					
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
<b>Anilofos 18% EC</b>					
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	-
<b>Anilophos 2 % G</b>					
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
<b>Atrazine 50% WP</b>					

Maize	<i>Trianthama monogyna</i> <i>Digera arvensis</i> , <i>Echinochloa spp</i> <i>Eleusine Spp.</i> <i>Xantheium strumarium</i> <i>Brachiaria sp,</i> <i>Digitaria sp,</i> <i>Amaranthus viridis,</i> <i>Cleome viscosa</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>Enchinochloa 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>Enchinochloa 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 royeli</i>	60 gm	100 gm	300 ltrs	88 days
Transplanted Rice (post-em 20 DAT)	<i>Ammania baccifera</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> <i>Fimbristylis miliacea</i> <i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i> <i>Monochoria vaginalis</i> <i>Alternanthera sessillis</i> <i>Scirpus royeli</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 bengalensis</i> <i>Echinocloa colanum</i> <i>Echinocloa 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 ssp.</i> <i>Eclipta alba</i> <i>Echinocloa colanum</i> <i>Echinocloa crusgalli</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 zeylenica</i>	20-25 gm	200-250 ml	300 ltrs.	78
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### 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
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### 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 Colonum</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
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### 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	-
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### Carfentrazone ethyl 40% DF

Wheat (25-35 DAS)	<i>Chenopodium album,</i> <i>Melilotus Indica,</i> <i>Melilotus alba,</i> <i>Medicago denticulata,</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>Echinochloa crusgalli</i> <i>Marsilea minuta</i>	75-100 gm	0.75-1.0 ltrs.	500-700	110
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**Clodinafop- propargyl 15%WP**

Wheat	<i>Phalaris minor</i> (Canary grass)	60gm	400 gm.	375-400	110
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**Clodinafop- propargyl 15% w/w DF**

Wheat	<i>Phalaris minor</i> (Canary grass)	60 gm	400	500	70
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**Clomazone 50%EC**

Soybean	<i>Digiteria 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> ) Barnyard grass	75-80 gm	0.75-0.80ltr	500-600	90
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**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> , <i>Cyperus sp.</i>	0.5 kg	0.86	400-500	50-60
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Wheat	<i>Chenopodium album,</i> <i>Fumaria parviflora,</i> <i>Melillotus alba,</i> <i>Vicia sativa,</i> <i>Asphodelus tenuifolius,</i> <i>Convolvulus arvensi,</i>	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	<i>Cyperus iria, 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>Anagallis arvensis,</i> <i>Convolvulus arvensis,</i> <i>Cyperus iria,</i> <i>Portulaca oleracea.</i>	2.0 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>  <i>Parthenium hysterophorus,</i>  <i>Cyperus rotundus</i>	0.5-1.0 kg  2.65 kg  2.5 kg	0.86-1.72  4.56  4.30	600-700  300-400  300-400	15-20  15-20  -

**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
Maize	<i>Amaranthus viridis,</i> <i>Trianthema portulacastrum</i> <i>Phyllanthus niruri.,</i> <i>Euphorbia geniculata,</i>	1.00 Kg.	1.25	500	120(Pre-em) 90(post-em)

	<i>Amaranthus spinosus.</i> <i>Cleome chelidonii,</i> <i>Lagasca mollis</i>				
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>Anagallis 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.  4-8 Kg  1.8 kg	3.2-7.5  5-10  2.25	600-1000  500-600  500-600	-  -  -

#### 2,4-D Ethyl Ester 38 % EC (having 2,4-D acid 34 % w/w)

Maize	<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>	1.0 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>	0.45-0.75 kg	1.32-2.2	450-500	-

	<i>Fumaria parviflora</i> <i>Melilotus alba.</i> <i>Spergula arvensis</i>				
Sugarcane	<i>Cyperus iria,</i> <i>Digitaria sp.,</i> <i>Dactyloctenium,</i> <i>Aegyptiana,</i> <i>Digera arevensis,</i> <i>Portulaca oleeracea,</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 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>	1.0 kg	25 kg	-	-
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**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
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**Diuron 80% WP**

Cotton	<i>Amaranthus spp,</i> <i>Chenopodium album,</i> <i>Convolvulas 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,Amaranthus spp,</i> <i>Dactyloctenium,</i> <i>Chloris barbata,</i> <i>Eragrostis zeylenica,</i>	1.60 kg	2 kg.	625	-
Rubber	<i>Grasses &amp; 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	1.0 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>Convolvulus 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> <i>Amaranthus spp,</i> <i>Argemone maxicana,</i> <i>Ipomoea spp,</i> <i>Xanthium strumerium,</i> <i>Fumeria parviflora,</i>	1.6kg	2.0 kg.	625	-

	<i>Asphodelus tenuifolius,</i> <i>Medicago denticulata,</i> <i>Eleusine aegyptia.</i>				
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### 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>Echinochloa colona</i>	22-26gm	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	<i>Amaranthus viridis,</i> <i>Parthenium hysterophorus,</i> <i>Trianthema sp.,</i> <i>Euphorbia geniculata,</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>Ectypta alba,</i> <i>Marsilea quadrifoliata,</i> <i>Ammania baccifera,</i> <i>Monochoria vaginalis</i>	12.5-15gm	83.3- 100gm	500	110
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### 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, Brachiaria sp.</i>	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (transplaned)	<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>Dactylocteneum</i> <i>Aegyptium</i>	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43

Cotton	<i>Echinochloa sp.</i> <i>Eluesine indica</i> <i>Dactylocteneum</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
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#### 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
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#### Fluazifop-p-butyl 13.4% EC

Soybean	<i>Echinochloa colonum,</i> <i>Echinolchloa 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
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#### Flucetosulfuron 10% WG

Rice (Transplanted)	<i>Echinochloa colonum</i> <i>Echinolchloa crusgalli</i> <i>Digitaria sanguinalis</i> <i>Paspalum discichlum</i> <i>Paspalum scrobiculatum</i> <i>Leersia hexandra</i> <i>Panicum repens</i> <i>Setaria glauca</i> <i>Dinebra retroflexa</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliaceae</i> <i>Alternanthera philoxeroides</i>	25	250	500	90
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	<i>Alternanthera sessilis</i> <i>Marsilea quadrifolia</i> <i>Ammania baccifera</i> <i>Eclipta alba</i> <i>Eclipta prostrata</i> <i>Monochoria vaginalis</i> <i>Lindernia ciliata</i> <i>Ludwigia parviflora</i> <i>Sphenoclea zeylanica</i> <i>Commelina diffusa</i> <i>Cyanotis axillaris</i>			
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**Fluchloralin 45% EC**

Cotton	<i>Acanthospermum hispidum,</i> <i>Cleome viscosa,</i> <i>Datura sp.</i> <i>Trianthema monogyna</i> <i>Tridax procumbens,</i> <i>Cynodon dactylon</i> <i>(germinating) 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 hispida,</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
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**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>Amaranlhus viridis.</i>	13.6	125	500	73
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#### **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>Dactylocteneum</i> <i>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 sessilis,</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
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### 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 annua</i> <i>Cyperus rotundus</i> <i>Parthenium</i> <i>hysterophorous</i> <i>Acalypha indica</i> <i>Digeria arvensis</i> <i>Phyllanthus niruri</i> <i>Euphorbia geniculata</i> <i>Corchorus actangularis</i> <i>Saccharum spontenium</i> <i>Eleusine indica</i> <i>Imperata cylindrical</i> <i>Ageratum conzoides</i>	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-
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### 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	Sorghum 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 sessilis</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	-
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### 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 cylindrica</i> <i>Paspalum conjugatum</i>	1.5 kg.	30 ltrs.	500	7 days
Non Crop area	<i>Cynodon dactylon</i> <i>Cyprus 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>Xanrhium 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
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#### 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

#### Haloxyfop R Methyl 10.5% w/w EC

Soybean	<i>Brachiaria sp.</i> <i>Digitaria sanguinalis</i> <i>Dinebra arabica</i> <i>Echinochloa sp.</i>	108-135	1000-1250	500	60
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	<i>Eleusine indica</i> <i>Eragrostis sp.</i> <i>Pnicum isochmi</i>				
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### **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>portulacasturm,</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 arabica,</i> <i>Digitaria spp.,</i>	75-100 gm+ 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

### **Imazethapyr 70% WG + Surfactant**

Soybean (2-3 leaf stage of weeds)	<i>Cyperus rotundus</i> <i>Echinochloa spp.</i> <i>Dinebra arabica</i> <i>Digera spp.,</i> <i>Brachiaria mutica,</i> <i>Commelina benghalensis</i> <i>Commelina communis</i> <i>Euphorbia geneculata</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
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**Isoproturon 50% WP**

Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	2.0	750	-
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**Isoproturon 75% WP**

Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	1.33 kg.	750	60 days
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**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 hirsuta,</i> <i>Lathyrus aphaca,</i> <i>Medicago denticulata,</i> <i>M. lupulina,</i> <i>Spergula arvensis,</i> <i>Argemone maxicana,</i> <i>Phyllanthus niruri.</i>	1.0 kg	2.5	300-600	

**Metamifop 10% EC**

Direct seeded Rice	<i>Barnyard grass</i> ( <i>Echinocloa spp</i> ), <i>Sacchiolepis</i> <i>Dactyloctenium</i> , <i>Digiteria, panicum</i>	100 g.a.i	1000 ml	350	87
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**Metamitron 70% SC**

Sugarbeet	<b>Sedges &amp; Grasses</b> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Dactyloctenium aegyptium</i> <b>Broad Leaves</b> <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
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### Methabenzthiazuron 70% WP

Wheat (PE –2DAS)	<i>Phalaris minor,</i> <i>Avena fatua,</i> <i>Avena ludoviciana,</i> <i>Poa annua,</i>	1.05-1.4kg	1.5-2.0 kg.	700-1000	100
Wheat (Post –EM 30 DAS)	<i>Polypogon monspeliensis,</i> <i>Anagallis arvensis,</i> <i>Chenopodium album</i>	1.05-1.75kg	2.0-2.5 kg.	700-1000	100
Wheat (Early POE.16-18 DAS)	<i>Phalaris minor,</i> <i>Avena fatua,</i> <i>Avena ludoviciana,</i> <i>Chenopodium album</i>	0.7-0.87 kg	1.0-1.25 kg.	700-1000	100

### Metolachlor 50% EC

Soybean	<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	-
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### 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
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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
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### **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-Poloxethanol 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>Anagalis arvensis</i> <i>Vicia sativa</i> <i>Rumex denticulata</i> <i>Convolvulus arvensis</i> <i>Medicago denticulata</i>	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy-Poloxethanol 12.5%) @0.2%	76
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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-Poloxethanol 12.5%) @0.2%	71
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### Orthosulfamuron 50% WG

Transplanted Rice (Paddy)	<i>Echinocloa spp.</i> (Barnyard grass) <i>Cyperus spp.</i> (Nut grass) <i>Scirpus spp.</i> <i>Ludwigia parviflora</i> (water crest) <i>Fimbristylis spp.</i> (Hoora grass) <i>Rotala spp.</i>	60-75	150 3 DAT	500	65
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### Oxadiargyl 80% WP

Transplanted Rice	<i>Echinochloa crusgalli</i> <i>E. Coloum,</i> <i>Cyperus iria,</i> <i>C. difformis,</i> <i>Eclipta alba,</i> <i>Ludwigia quadrifoliata</i>	100	125	500	97
Sunflower	<i>Echinochloa colonum</i> <i>Dactyloctenium aegyptium</i>	240	300	500	81

### Oxadiargyl 6%EC

Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum,</i>	100gm	1.66 ltrs	500	97
Cumin	<i>Cyperus iria, cyperus difformis, 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 E.</i> <i>colonum Cyperus iria C.</i> <i>difformis Marsilea</i> <i>quadrifoliata,</i> <i>Eclipta alba,</i> <i>Ludwigia sp.</i>	0.5kg	2.0 ltrs.	500	-
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### 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 miliacea,</i> <i>Marsilea spp</i>	100-150 gm	30-40 kg.	-	-
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### 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>Digiteria,</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, 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>Euphorbia spp.,</i> <i>Ludwigia parviflora,</i>	206	904.3	500	10

	<i>Portulaca spp.</i>				
<b>Pendimethalin 30% EC</b>					
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>Ammania 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
<b>Pendimethalin 5 % G</b>					

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>Ammania baccifera</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i>	1.0-1.5 kg	20-30 kg	-	-
<b>Pendimethalin 38.7% CS</b>					
Soybean	<i>Echinochloa colonum</i> <i>Dinebra arabuica</i> <i>Digitaria sanguinalis</i> <i>Bracharia mutica</i> <i>Dactyloctinum 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>Brachiaria 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>Brachiaria mutica</i> , <i>Amaranthus spp.</i> , <i>Portulaca oleracea</i> , <i>Commelina spp.</i> , <i>Parthenium hysterophorus</i> , <i>Digera arvensi</i> , <i>Physalis minima</i>	580.5-677.25gm	1500-1750	500	98

Onion	<i>Dactyloctinum 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>Trianthenut 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
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#### 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>Sphenecelea 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
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#### 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		
<b>Pretilachlor 37%EW</b>						
Transplanted Rice		<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Digitaria sanguinalis</i> <i>Fimbristylis miliacea</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
<b>Pretilachlor 30.7% EC</b>						
(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
<b>Pretilachlor 50% EC</b>						
Transplanted Rice		<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliacea</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
<b>Propaquizafop 10% EC</b>						
Soybean		<i>Echinochloa colonum,</i> <i>Echinochola crusgalli,</i> <i>Digiteria sanguinalis,</i> <i>Dactyloctenium egyptium,</i> <i>Eleucine indica</i>	50-75 g	500-750	500-750	21
Blackgram		<i>Echinochloa colonum,</i> <i>Echinochola crusgalli,</i> <i>Digiteria sanguinalis,</i> <i>Dactyloctenium egyptium,</i> <i>Eleucine indica</i>	75-100 g	750-1000	500-750	21

Onion	<i>Echinochloa colonum,</i> <i>Digiteria sanguinalis,</i> <i>Dactyloctenium egyptium,</i> <i>Phalaris minor</i>	62.5	625	500	7
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### Paraquat dichloride 24% SL

Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Imperata</i> <i>Setaria sp.,</i> <i>Commelina benghalensis,</i> <i>Boerraria hispida,</i> <i>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, muse 2.5 to 5 lit for initial application. For subsequent repeat spot application use 1 lite)
Potato (Post-emergence overall / inter-row application at 5-10 % emergence)	<i>Chenopodium sp.</i> <i>Angallis arvensis</i> <i>Trianthema monogyna</i> <i>Cyperus rotundus</i> <i>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,</i> <i>Cyperus iria,</i> <i>Trianthema monogyna,</i> <i>Corchorus spp.,</i> <i>Leucas aspera,</i> <i>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.,</i> <i>Eragrostis sp.,</i> <i>Fimbristylis sp.</i>	0.3-0.6 kg	1.5-2.5	600	N.A.
Coffee	<i>Digitaria marginata,</i> <i>paspalum Conjugatum,</i> <i>Ageratum,</i> <i>Conyzides,</i> <i>Borreria hispida,</i> <i>Euphorbia hirta,</i> <i>Commelina benghalensis,</i> <i>Eleusine indica</i>	250	1.0	400	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	<i>Echinochloa crusgalli,</i> <i>Cyperus iria,</i> <i>Ageratum conyzides,</i> <i>Commelina benghalensis,</i> <i>Marsilea quadriofoliata,</i> <i>Brachiaria mutica</i>	0.3-0.8 kg	1.25-3.5	500	N.A.
Wheat [pre-plant ( minimum tillage) before sowing]	<i>Grassy &amp; 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 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 Canals, Ponds Etc	<i>Eichhornia crassipes</i> <i>Hydrilla</i> <i>Typha latifolia</i>	1000 1000 1000-2000	4.25 4.25 4.25-8.5	600-1000 600 600-1000	N.A

### 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
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**Pyrithiobac Sodium 10% EC**

Cotton (Gossypium)	<i>Trianthema Spp</i> <i>Amaranthus Spp</i> <i>Chenopodium Spp</i> <i>Digera Spp</i> <i>Celosia argentina</i>	62.5-75 gm	625-750	500	160
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**Pyrozosalfuron Ethyl 70% WDG**

Transplanted Rice	<i>Echinocloa spp,</i> <i>Cyperus rotundus,</i> <i>Ludwigia parviflora</i>	21g	-	-	43
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**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 indica,</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 ipilosa),</i> <i>Crab grass (digitaria sanguinalis/ wild finger/</i> <i>Makra grass Viper grass,</i>	375-45.0	375-450	300-500	69-103
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	<i>Barnyard grass, sanwa/Samel, Brown top millet</i>				
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**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
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**Sulfentrazone 39.6% w/w SC**

Soybean	<i>Acalypha sp.,</i> <i>Commelina sp.,</i> <i>Digera sp.,</i> <i>Cyprus 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>Dactyloctenium spp.,</i> <i>Digitaria spp.,</i> <i>Brachiaria spp.,</i> <i>Echinocloa 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
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**Tembotrione 34.4% SC**

Maize	<i>Trianthema portulacastrum,</i> <i>Echinochloa sp.</i> <i>Bracharia sp.</i>	120g	286ml	500L	55
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<b>Triallate 50% EC</b>					
Wheat	<i>Avena fatua</i>	1.25 kg	2.5 kg.	250-500	150
<b>Triasulfuron 20% WG</b>					
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 perpiflora</i>	20	100	500	81
Tea	<i>Ageratum conyzoides,</i> <i>Borreria spp.,</i> <i>Crassocephalum crepidioides,</i> <i>Oxalis spp.,</i> <i>Bidens pilosa,</i> <i>Conyza ambigua,</i> <i>Drymaria diandra,</i> <i>Emilia sonchifolia,</i> <i>Mitracarpus verticillatus,</i> <i>Syndnedrella nodiflora.</i>	25	125	500	7
<b>Topramezone 336 g/l w/v SC</b>					
Maize	<i>Elusine indica,</i> <i>Digitaria sanguinalis,</i> <i>Dactyloctenium aegyptium,</i> <i>Echinocloa 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

<b>Anilofos 24% +2,4-D ethyl Ester 32% EC</b>					
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
<b>Bensulfuron methyl 0.6%+Pretilachlor 6% GR</b>					
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
<b>Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW</b>					
Tea	<i>Ageratum conyzoides</i> <i>Bidens pilosa</i> <i>Borreria sp.</i> <i>Crassocephalumcr</i> <i>epidiooides</i> <i>Cynodon sp.</i> <i>Cyperous sp.</i> <i>Digitaria sp.</i> <i>Eleusine indica</i> <i>Mimosa sp.</i> <i>Mltracarpus villosus</i> <i>Oxalis sp.</i>	12.90 +924.60	3000	500	7
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 cylendrica</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>Medililotus alba</i> <i>Rumex spp</i>	20+25 +750 ml Surfactant	100	300	110
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**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 sparying)	100
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**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
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**Clomazone 20%+2,4-D EE 30% EC**

Transplanted Rice	<i>Echinochloa colonum,</i> <i>Echinochloa crusgalli,</i> <i>Cyperus iria,</i> <i>Cyperus difformis,</i> <i>Eclipta alba,Leptochloa chinensis,</i> <i>Panicum repens,</i> <i>Fimbristylis miliacea,</i> <i>Marsilea quadrifoliata,</i> <i>Ludwigia parviflora.</i>	0.250-0.375 Kg	1.25 ltrs.	500	100-110
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**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
<b>Fluazifop-p-butyl 11.1% w/w + Fomesafen 11.1% w/w SL</b>					
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>Aclypha 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> <i>Eluropus 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 virdis</i> <i>Cyperus sp.</i>	250	1000	500	82
<b>Hexazinone 13.2% + Diuron 46.8 % WP</b>					

Sugarcane	<i>Enchinochloa colonum</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
<b>Indaziflam 1.65% w/w (2%w/v) + Glyphosate Isopropylammonium 44.63% w/w (40%w/v) SC</b>					
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
<b>Imazethapyr 35% + Imazamox 35% WG</b>					
Soybean	<i>Echinochloa Colonum,</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 Colonum,</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 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
<b>Mesoulfuron Methyl 3% + Iodosulfuron Methyl Sodium 0.6% WG</b>					

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
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**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

**Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP**

Transplanted Rice (Pre-emergence application-3 DAT)	<i>Cyperus iria,</i> <i>Cyperus difformis,</i> <i>Fimbristylis miliaceae,</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
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**Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF**

Wheat	<i>Rumex dentatus</i> <i>Rumex spinosus</i> <i>Medicago denticulata</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
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**Oxyflurofen 2.5% + Glyphosate ( Isopropyl amine salt )41% SC( w/w)**

Tea	<i>Ageratum Conyzoids</i> <i>Cyperos sp</i> <i>Borreria bispida</i> <i>Pospalum con jugatum</i> <i>Digitaria ciliaris</i>	50+820	2000	500L/ha.	14
<b>Pendimethalin 30%+ Imazethapyr 2% EC</b>					
Soybean	<i>Echinocloa crusgalli</i> <i>Digera 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
<b>Penoxsulam 0.97% w/w + Butachlor 38.8% w/w SE</b>					
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
<b>Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD</b>					
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
<b>Pendimethalin 35% + Metribuzin 3.5% w/w SE</b>					

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 (Cyanodon doctylon)</i>	875 +87.5 to 1050 + 105 gm	2.5-3.0	500	123
<b>Pendimethalin 38.4% + Pyrazosulfuron ethyl 0.85% ZC</b>					
Transplanted Rice	<i>Echinochloa colona (wild rice), Echinochloa crus galli (banyard grass), Marsilea quadrifolia (comrnnon water clover), Ludwigia parvifl otz (rvater crest), Cyperus diffirmis (comrnnon sedge/), Cyperus spp.</i>	900 +20	2000	375	86
<b>Pretilachlor 6% + pyrazosulfuron Ethyl 0.15%(H)</b>					
Paddy	Grassy weeds, Broad Leave, Sedges	600+15	10	-	83
<b>Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR</b>					
Transplanted Paddy	<i>Echinochloa Colonum Echinochloa Crusagalli Ludwigia paviflora, Elipta alba, Leptochola chinensis, Monochoria vaginalis, Cyperus difformis, Cyperus iria, Fimbristylis miliaceae</i>	600	10	-	83
<b>Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG</b>					

Paddy (Direct seeded Rice)	<i>Echinochloa colona,</i> <i>Eleusine indica,</i> <i>Leptochloa chinensis,</i> <i>Abernanthe a sessilis,</i> <i>Parthenium hysterophrous,</i> <i>Cyperus iria</i> <i>Cyperus difformis,</i> <i>Fimbristylis miliacea</i>	15+600	2000	375	113
<b>Propaquizafop 2.5% + Imazethapyer 3.75% w/w ME</b>					
Soybean	<u>Grassy weeds:</u> <i>Dactyloctnium aegyptium</i> <i>Echinocloa 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
<b>Propaquizafop 5% + Oxyfluorfen 12% w/w EC</b>					
Onion	<u>Grassy weeds</u> <i>Digitaria sanguinalis,</i> <i>Dactyloctnium aegyptium,</i> <i>Echinocloa colonia,</i> <i>Eleusine indica</i> <u>BLW:</u> <i>Chenopodium album, Digera arvensis</i> <i>Amaranthus viridis</i>	43.75 +105	875	500	7
<b>Pyri thiobac Sodium 6% EC w/w+ Quizalofop-ethyl 4% EC w/w MEC</b>					
Cotton	<i>Trianthema spp</i> <i>Digera spp</i> <i>Celosia argentia</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
<b>Sulfentrazone 28% + Clomazone 30% WP</b>					

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
<b>Sulfosulfuran 75%+ Metsulfuron Methyl 5%WG</b>					
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
<b>Sodium Aceflourofen 16.5% + Clodinafop Propargyl 8% EC</b>					
Soybean	<i>Acalypha indica</i> , <i>aegyptium</i> , <i>Alternanthera v philoxeroides</i> , <i>Amaranthus spp.</i> , <i>Celosia argentea</i> , <i>Cleome viscosa</i> , <i>Commelina benghalensis</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>Fimbristylis 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 benghalensis.</i>	44+22.5	225	300	83

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