



GOVERNMENT OF INDIA
Ministry of Agriculture
Department of Agriculture & Cooperation
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

2012

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HERBICIDES

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APPROVED USES OF REGISTERED HERBICIDES

(As on 30th Nov, 2012)

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)		
Alachlor 50% EC					
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>Amaranthus viridis</i> <i>Digitaria spp.</i> <i>Echinochloa spp.</i> <i>Euphorbia hirta</i> <i>Phyllanthus niruri</i> <i>Portulaca oleracea</i> <i>Trianthema</i> <i>portulacastrum</i>	2.5 kg	5 ltrs.	250-500	120-150
	<i>Acanthosermum</i> <i>hispidum</i> <i>Flaveria australasica</i>	1.5-2.5 kg	3-5 ltrs.	250-500	120-150
Soybean	<i>Amaranthus viridis</i> <i>Cleome viscosa</i> <i>Cyperus iria</i> <i>Dactyloctenium</i> <i>aegyptium</i> <i>Echinochloa spp.</i> <i>Eleusine indica</i> <i>Setaria glauca</i>	2.5 kg	5 ltrs.	250-500	
Alachlor 10% GR					
Cotton	<i>Dactyloctenium</i> <i>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	-	-
Anilofos 30% EC					

Transplanted paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i> <i>Marsilea quadrifoliata</i>	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Soybean	<i>Echinochloa colonum</i> <i>Commelina begalensis</i> <i>Cyanotis axilaris</i> <i>Ageratum conyzoides</i>	1.25-1.5 kg	4.20-5.0ltr	500	100-120
Anilofos 18% EC					
Transplanted Paddy	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> , <i>Eclipta alba</i> <i>Ischaemum rugosum</i> <i>Fimbristylis sp.</i>	0.30-0.45 kg	1.66-2.5 kg	500-600	-
Anilophos 2 % G					
Transplanted rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Ischaemum rugosum</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis sp.</i>	0.4-0.5 Kg	20-25 Kg	-	30
Atrazine 50% WP					

Maize	<i>Trianthema monogyna</i> <i>Digera arvensis</i> , <i>Echinochloa spp</i> <i>Eleusine Spp.</i> <i>Xanthium strumarium</i> <i>Brachiaria sp, Digitaria</i> <i>sp, Amaranthus viridis</i> , <i>Cleome viscosa,</i> <i>Polygonum spp.</i>	0.5-1.0 kg	1-2 kg	500-700	-
Azimsulfuron 50% DF					
Rice (Transplanted)	<i>Enchinochloa colonum, E.</i> <i>crusgalli, Cyperus spp.,</i> <i>Fimbristylis miliacea,</i> <i>Ludwigia parviflora, Eclipta</i> <i>alba, 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, E.</i> <i>crusgalli, Cyperus spp.,</i> <i>Fimbristylis miliacea,</i> <i>Ludwigia parviflora, Eclipta</i> <i>alba, 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
Transplated Rice (post-em 20 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 differmis</i> , <i>Fimbristylis miliacca</i> , <i>Scirpus royeli</i>	60gm	100 gm	300 ltrs.	71
Bispyribac Sodium 10% SC					
Rice (Nursary)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i>	20 gm	200 ml.	300 ltrs.	-
Rice (Transplanted)	<i>Ischaemum rugosum</i> <i>Cyperus difformis</i> , <i>Cyperus iria</i> ,	20 gm	200 ml	300 ltrs.	78

Rice (Direct seeded)	<i>Fimbristylis miliacea</i> , <i>Eclipta alba</i> , <i>Ludwigia parviflora</i> , <i>Monochoria vaginalis</i> , <i>Alternanthera philoxeroides</i> , <i>Sphenoclea zeylanica</i>	20 gm	200 ml	300 ltrs.	78
Butachlor 50% EC					
Paddy (transplanted)	<i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Eleusine indica</i> , <i>Eclipta alba</i> , <i>Fimbristylis miliacea</i> , <i>Ludwigia parviflora</i> , <i>Sphenoclea zeylanica</i>	1.25-2.00kg	2.5-4 ltrs	250-500	90-120
Butachlor 5% GR					
Rice	<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 purviflora</i> , <i>Sphenoclea zeylanica</i>	1.25-2.0 kg	25-40kg.	-	90-120

Butachlor 50 % EW					
Transplanted Rice	<i>Echinochloa colonum</i> <i>Echinochloa crusgalli</i> , <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> , <i>Fimbristylis miliacea</i> <i>Ludwigia parviflora</i> , <i>Sphenoclea zeylanica</i> <i>Monochoria vaginalis</i>	1.25-1.5 Kg	2.5-3.0	2.50-500	-
Carfentrazone ethyl 40% DF					
Wheat	<i>Chenopodium album</i> , <i>Melilotus Indica</i> , <i>Melilotus alba</i> , <i>Medicago</i> <i>denticulata</i> , <i>Lathyrus</i> <i>aphaca</i> , <i>Anagallis</i> <i>arvensis</i> , <i>Vicia sativa</i> <i>Cirsium arvense</i> , <i>Rumex</i> <i>sp</i> , <i>Malwa sp.</i>	20gm	50 gm.	400	80
Chlorimuron Ethyl 25% WP					
Soybean	<i>Eclipta alba</i> , <i>Commelina</i> <i>benghalensis</i> <i>Chenopodium album</i> , <i>Cyperus rotundus</i> , <i>Cyperus iria</i> , <i>Parthenium</i> <i>hysterophorus</i> , <i>Acalypha indica</i> , <i>Phyllanthus niruri</i> , <i>Trianthema</i> <i>portulacashurm</i> , <i>Caesulia auxillaris</i>	9 gm	36 gm.	300 ltrs. +Surfactant 0.2 % (Iso-octyl phenoxy- poloxetha nol 12.5 %)	45

Rice (transplanted)	<i>Echinochloa crusgalli</i> , <i>Eclipta alba</i> , <i>Commelina benghalensis</i> , <i>Chenopodium album</i> , <i>Cyperus rotundus</i> , <i>Echinochloa colonum</i>	6gm	24 gm.	500-600	60
Cinmethylin 10% EC					
Transplanted Rice	<i>Cyperus iria</i> <i>Fimbristylis milacea</i> <i>Monochoria vaginalis</i> <i>Commelina Benghalensis</i> <i>Echinocloa crusgalli</i> <i>Marsilea minuta</i>	75-100 gm	0.75-1.0 ltrs.	500-700	110
Clodinafop- propargyl 15%WP					
Wheat	<i>Phalaris minor</i> (<i>Canary grass</i>)	60gm	400 gm.	375-400	110
Clomazone 50%EC					
Soybean	<i>Digiteria spp</i> , <i>Echinochloa spp</i> , <i>Parthenium hysterophorus</i> , <i>Commelina spp</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

Cyhalofop Butyl 10% EC					
Rice (Directed seeded)	<i>(Echinochloa spp.) Barnyard grass</i>	75-80 gm	0.75-0.80ltr	500-600	90
2,4-D Dimethyl Amine salt 58% SL					
Maize	<i>Trianthema monogyna, Amaranthus sp., Tribulus terristeris, Boerhaavia diffusa , Euphorbia hirta, Portulaca oleracea, Cyperus sp.</i>	0.5 kg	0.86	400-500	50-60
Wheat	<i>Chenopodium album , Fumaria parviflora , Melillotus alba , Vicia sative , Asphodelus tenuifolius , Convolvulus arvensi;s .</i>	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	<i>Cyperus iria, Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri.</i>	1.8 kg	3.1	500-600	-
Potato	<i>Chenopodium album, Asphodelus tenuifolius , Anagalis arvensis, Convolvulus arvensis, Cyperus iria , Portulaca oleracea.</i>	2.0 kg	3.44	400	-
Sugarcane	<i>Cyperus iria Digitaria sp. Dactylactenium</i>	3.5	6.3	500	-

	<i>aegyptium</i> <i>Digera arvensis</i> <i>Portulaca oleracea</i> <i>Commelina benghalensis</i> <i>Convolvulus arvensis</i>				
Aquatic Weeds Non crop area	<i>Eichhornia crassipes.</i>	0.5-1.0 kg	0.86-1.72	600-700	15-20
	<i>Parthenium</i> <i>hysterophorus,</i>	2.65 kg	4.56	300-400	15-20
	<i>Cyperus rotundus</i>	2.5 kg	4.30	300-400	-
2,4-D Sodium salt Technical (having 2,4-D acid 80 % w/w) (Earlier Registered as 80%WP)					
Citrus	<i>Euphorbia spp.</i> <i>Convolvulus arvensis</i> <i>Coronopus didymus</i> <i>Amaranthus viridis</i> <i>Oxalis corniculata</i> <i>Tribulus terrestris</i> <i>Fumaria parviflora</i> <i>Sonchus arvensis</i>	1.00-2.5 kg	1.25-3.2 kg	600	>6 months
Grapes	<i>Convolvulus spp.</i> <i>Tridax procumbens</i>	2.0	2.5	500	> 90 days
Maize	<i>Amaranthus viridis,</i> <i>Trianthema</i> <i>portulacastrum</i> <i>Phyllanthus</i> <i>niruri.,Euphobia</i> <i>geniculata,Amaranthus</i> <i>spinosus.Cleome</i> <i>chelidonii, Lagasca</i> <i>mollis</i>	1.00 Kg.	1.25	500	120(Pre- em) 90(post- em)
Sugarcane	<i>Boerhaavia diffusa</i> <i>Chenopodium album</i> <i>Tribulus terrestris</i> <i>Portulaca oleracea</i> <i>Xanthium spp.</i> <i>Convolvulus arvensis</i>	2.0-2.6	2.5-3.25	600-900	300

	<i>Amaranthus spinosus</i> <i>Digera arvensis</i> <i>Celosia argentina.</i>				
Wheat	<i>Leucas aspera</i> , <i>Chenopodium album</i> , <i>Vicia sativa</i> , <i>Argemone maxicana</i> , <i>Fimbristylis miliacea</i> , <i>Anagalis arvensis</i> , <i>Amaranthus spinosus</i> .	0.5-0.84 kg.	0.625-1.0	500	90
Aquatic Weeds	<i>Boerhaavia hispada</i> , <i>Eichhornia crassipes</i> .	1.5 kg	1.85.	600-1000	-
Non crop land	<i>Parthenium hysterophorus</i> ,	2.5-6.0 kg.	3.2-7.5	600-1000	-
	<i>Cyperus rotundus</i> ,	4-8 Kg	5-10	500-600	-
	<i>Solanum elaeagnifolium</i> .	1.8 kg	2.25	500-600	-
2,4-D Ethyl Ester 38 % EC (having 2,4-D acid 34 % w/w)					
Maize	<i>Trianthema monogyna</i> , <i>Amaranthus sp.</i> , <i>Portulaca oleracea.</i> , <i>Tribulus terrestris</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia hirta</i> , <i>Cyperus sp.</i>	0.9 kg	2.65 ltr	400-450	50-60
Sorghum	<i>Cyperus iria</i> , <i>Striga sp.</i> <i>Digera arvensis</i> , <i>Convolvulus arvensis</i> , <i>Trianthema sp.</i> , <i>Tridax procumbens</i> , <i>Euphorbia hirta</i> , <i>Phyllanthus niruri</i> .	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> , <i>Fumaria parviflora</i> <i>Melilotus alba</i> . <i>Spergula arvensis</i>	0.45-0.75 kg	1.32-2.2	450-500	-
Sugarcane	<i>Cyperus iria</i> , <i>Digitaria sp.</i> , <i>Dactyloctenium, Aegyptiana</i> , <i>Digera arevensis</i> , <i>Portulaca oleracea</i> , <i>Commelina benghalensis</i> , <i>amaranthus sp.</i> , <i>Convolvulus arvensis</i>	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	<i>Eichhornia crassipes</i>	2.5 kg	7.5	700-1000	-
2,4-D Ethyl Ester 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	-	-
Diclofop Methyl 28% EC					

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

	<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> , <i>Asphodelus tenuifolius</i> , <i>Medicago denticulata</i> , <i>Eleusine aegyptia</i> .				
Ethoxysulfuron 15% WDG					
Transplanted Rice.	<i>Fimbristylis miliacea</i> <i>Cyperus iria</i> , <i>Cyperus difformis</i> , <i>Scirpus sp.</i> , <i>Eclipta alba</i> , <i>Marsilea quadrifoliata</i> , <i>Ammania baccifera</i> , <i>Monochoria vaginallis</i> ,	12.5-15gm	83.3-100gm	500	110
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digitaria sp</i> , <i>Eleusine indica</i> , <i>Setaria sp</i> , <i>Brachiaria sp</i> .	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (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>Dactyloctenium</i>	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43

	<i>Aegyptium</i>				
Cotton	<i>Echinochloa sp.</i> <i>Eleusine indica</i> <i>Dactyloctenium</i> <i>Aegyptium</i> <i>Eragrostis minor</i>	67.5 g	750ml. (20 -25 DAS)	375-500	87
Fenoxaprop-p-ethyl 10% EC					
Wheat	<i>Phalaris minor</i>	100-120gm	1.0-1.20 kg.	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	<i>Echinochloa sp.</i>	56.6-60.38g	812.5-875	375-500	61
Fluazifop-p-butyl 13.4% EC					
Soybean	<i>Echinochloa colonum,</i> <i>Echinochloa crusgalli,</i> <i>Eleusine indica,</i> <i>Cyanodon dactylon,</i> <i>Dactyloctenium</i> <i>Aegyptium,</i> <i>Digitaria sp.,</i> <i>Setaria sp.</i>	125-250 g	1000-2000	500	90
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> (germinating), <i>Amaranthus spp.</i> , <i>Portulaca spp</i> , <i>Achyranthus aspera</i> , <i>Euphorbia hirta</i> , <i>Cenchrus catharticus</i> , <i>Digitaria sanguinalis</i> , <i>Eleusine sp</i> , <i>Panicum sp</i> , <i>Lagasca mollis</i> , <i>Gynandropsis pentaphylla</i> , <i>Achalypha indica</i>	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180
Soybean	<i>Eragrostis sp.</i> , <i>Boerhaavia 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
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>	0.375-0.500	2.5-3.3	375-500	15

Cotton	<i>Echinochloa sp.</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Digitaria marginata</i> <i>Dactyloctenium aegyptium</i>	375-450	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
Glyphosate 41% SL IPA Salt					
Tea	<i>Axonopus compressus</i> , <i>Cynodon dactylon</i> , <i>Imperata cylindrical</i> , <i>Polygonum perfoliatum</i> , <i>Paspalum scrobiculatum</i> , <i>Arundinella, bengalensis</i> <i>Kalm grass.</i>	0.820-1.230kg.	2.0-3.0	450	21
Non-cropped area	Sorghum halepense 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>Echinochloa spp</i> , <i>Eclipta alba</i> , <i>Iscaemum rogosum</i> <i>Setaria spp</i> , <i>Commilina spp</i> , <i>Cyperus</i> <i>spp</i> ,	1.8 kg	3.33 ltrs.	400-500	-
Glyphosate Ammonium Salt 5% SL					
Tea	<i>Cynodon dactylon</i> <i>Digitaria sanguinalis</i> <i>Paspalum conjugatum</i> <i>Ageratum conyzoides</i> <i>Biden pilosa</i> <i>Cyperus rotundus</i> <i>Boreria latifolia</i> <i>Euphorbia spp.</i> <i>Imperata cylendrica</i>	1.5 kg.	30 ltrs.	500	7 days
Non Crop area	<i>Digitaria sanguinalis</i> <i>Eragrostis minor</i> <i>Cynodon dactylon</i> <i>Digera arvensis</i> <i>Euphorbia spp.</i> <i>Parthenium</i> <i>hysterophorus</i> <i>Cyprus rotundus</i> <i>Xantrhium stremerium</i> <i>Tribulus terrestris.</i>	2 kg.	40 ltrs.	500	-
Glyphosate 71% SG (Ammonium Salt)					

Tea & Non Crop area	<i>Acalypha indica</i> <i>Sida aculata</i> <i>Ipomea digitarea</i> <i>Cychorium intybus</i> <i>Digera arvensis</i> <i>Digitaria sanguinalis</i> <i>Paspalum conjugatum</i> <i>Ageratum conyzoides</i> <i>Cynodon dactylon</i> <i>Cyperus rotundus</i> <i>Eragrostis spp.</i>	2.13 kg	3.0 kg.	500	7
Imazethapyr 10% SL					
Soybean	<i>Cyperus difformis</i> <i>Echinochloa colonum</i> <i>E. crusgalli</i> <i>Euphorbia hirta</i> <i>Croton sperssifeorus,</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
Isoproturon 50% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	2.0	750	-

Isoproturon 75% WP					
Wheat	<i>Phalaris minor</i> <i>Avena fatua</i> <i>Poa annua</i>	1.0kg	1.33 kg.	750	60 days
Linuron 50% WP					
Pea	<i>Anagallis arvensis</i> , <i>Chenopodium album</i> , <i>Chenopodium murale</i> , <i>Portulaca oleracea</i> , <i>Mielilotus indica</i> , <i>Melilotus alba</i> , <i>Medicago denticulata</i> <i>Fumeria parviflora</i> , <i>Echinochloa crusgalli</i> , <i>Poa annua</i> .	0.625-1.0 kg	1.25-2.0	500	80-90
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>Phyllathus niruri</i> .	1.0 kg	2.5	300-600	
Methabenzthiazuron 70% WP					
Wheat (PE 62DAS)	<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 6EM 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 sp.</i> <i>Eleusine indica</i> <i>Digitaria sp.</i> <i>Panicum sp.</i> <i>Cyperus sp.</i> <i>Amaranthus viridis</i>	1.0 kg	2.0 ltrs.	600-750	-
Metribuzin 70% WP					
Soybean	<i>Digitaria spp.</i> <i>Cyperus esculentus</i> <i>Cyperus campestiris</i> <i>Borreria spp.</i> <i>Eragrostis spp.</i>	0.35-0.525 kg	0.5-0.75kg.	750-1000	30
Wheat	<i>Phalaris minor</i> <i>Chenopodium album</i> <i>Melilotus spp.</i>	Medium soil-0.175kg Heavy soil - 0.21kg	0.25 kg 0.30 kg.	500-750	120
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- Poloxetha nol 12.5%)@ 500 ml/ha	80
Rice (transplanted)	<i>Cyperus rotundus,</i> <i>Spheanochlea spp.,</i> <i>Fimbristylis sp.</i>	4 gm.	20 gm.	500-600	60

	<i>Ludwigia parviflora</i> <i>Marsilea quadrifoliata</i>				
Sugarcane	<i>Cyperus esculentus</i> , <i>Amaranthus viridis</i> , <i>Portulaca oleracea</i> , <i>Parthenium</i> <i>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 denticulate</i> <i>Convolvulus arvensis</i> <i>Meedicago denticulate</i>	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	76
Transplanted Rice	<i>Monochoria vaginalis</i> <i>Ludwigia parviflora</i> <i>Ludwigia adscendens</i> <i>Marselea quadrifoliata</i> <i>Eclipta alba</i> <i>Oxalis minima</i> <i>Dapatorium juncecum</i> <i>Commelina benghalensis</i> <i>Ammania baccifera</i> <i>Sphenoclea zeylanica</i> <i>Caesulia axillaries.</i>	4 gm	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxy- Poloxetha nol 12.5%) @0.2%	71

Orthosulfamuron 50% WG					
Transplanted Rice (Paddy)	<i>Echinochloa spp.</i> (Barnyard grass) <i>Cyperus spp.</i> (Nut grass) <i>Scirpus spp.</i> <i>Ludwigia parviflora</i> (water crest) <i>Fimbristylis spp.</i> (Hoor grass) <i>Rotala spp.</i>	60-75	150 3 DAT	500	65
Oxadiargyl 80% WP					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> , <i>Cyperus iria</i> , <i>cyperus difformis</i> , <i>Eclipta alba</i> <i>Ludwigia quadrifoliata</i>	100gm	0.125 kg.	500	97
Oxadiargyl 6%EC					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> ,	100gm	1.66 ltrs	500	97
Cumin	<i>Cyperus iria</i> , <i>cyperus difformis</i> , <i>Eclipta alba</i> <i>Ludwigia quadrifoliata</i> <i>Chenopodium album</i> <i>Remex sp.</i> , <i>Melilotus indica</i> , <i>Asphodelus tenuifolius</i>	60-75gm	1.0-1.25 ltrs.	500	87
Mustard	<i>Chenopodium album</i> , <i>Melilotus sp</i>	90	1500	500	35
Oxadiazon 25% EC					

Transplanted Rice	<i>Echinochloa crusgalli</i> <i>E.colonum</i> <i>Cyperus iria</i> <i>C.difformis</i> <i>Marsilea</i> <i>quadrifoliata,</i> <i>Eclipta alba,</i> <i>Ludwigia sp.</i>	0.5kg	2.0 ltrs.	500	-
Oxyflourfen 0.35% GR					
Rice (Direct sown puddled or Transplanted)	<i>Echinochloa sp.</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Fimbristylis miliacia,</i> <i>Marsilea spp</i>	100-150 gm	30-40 kg.	-	-
Oxyflourfen 23.5% EC					
Rice (Direct sown as pre-emergence)	<i>Echinochloa sp.</i> <i>Cyperus iria,</i> <i>Eclipta alba,</i>	150-240 gm	650-1000	500	-
Tea	<i>Digitaria, Imperata,</i> <i>Paspalum, 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 ,Coronpus</i> <i>Trianthema, Cyperus,</i> <i>Heliotropium</i>	100-200 gm	425-850	500-750	-
Groundnut	<i>Echinochloa colonum</i> <i>Digitaria arginata</i>	100-200 gm	425-850	500-750	-

Pendimethalin 30% EC					
Wheat	<i>Phalaris minor,</i> <i>Chenopodium album,</i> <i>Melilotus alba,</i> <i>Portulaca oleracea,</i> <i>Anagallis arvensis,</i> <i>Fumaria parviflora,</i> <i>Poa annua</i>	Light soil- 1.0 kg, Medium soil-1.25 kg, Heavy soil- 1.5 kg	3.3 ltr. 4.2 5.0	500-700 500-700 500-700	-
Rice (Transplanted &direct sown Upland)	<i>Echinochloa colona,</i> <i>E.crusgalli,</i> <i>Fimbristylis miliacea,</i> <i>Marselia quadrifoliata,</i> <i>Alternanthera sessilis,</i> <i>Ammonia baccifera,</i> <i>Ludwigra parviflora,</i> <i>Eclipta alba,</i> <i>Cyperus difformis</i>	Light to Heavy soil 1-1.5kg	3.3 65 Ltrs.	500-700	
Cotton	<i>Echinochloa</i> <i>spp.Euphorbia hirta</i> <i>Amarnanthus</i> <i>viridisPortulaca</i> <i>oleraceaTrianthema</i> <i>spp.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>Amarnanthus 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
Pendimethalin 5 % G					

Rice (Transplanted & Direct sown puddled)	<i>Echinochloa colona</i> , <i>E. crusgalli</i> , <i>Fimbristylis miliacea</i> , <i>Marselia quadrifoliata</i> , <i>Alternanthera sessilis</i> , <i>Ammonia baccifera</i> , <i>Ludwigia parviflora</i> , <i>Eclipta alba</i> , <i>Cyperus difformis</i>	1.0-1.5 kg	20-30 kg	-	-
Pendimethalin 38.7% CS					
Soybean	<i>Echinochloa colonum</i> <i>Dinebra arabaica</i> <i>Digitaria sanguinalis</i> <i>Bracharia mutica</i> <i>Dactyloctenium</i> <i>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>Panicum repens</i> , <i>Digitaria sanguinalis</i> , <i>Brachiaria mutica</i> (Grasses), <i>Pennisetum</i> <i>purpureum</i> , <i>Cyperus</i> <i>rotundus</i> (sedge), <i>Lantana camjara</i> , <i>Portulaca oleracea</i> , <i>Eclipta prostrate</i> , <i>Commelina benghalensis</i> (Broad leaves weeds)	677.27	1500-1750	500	101

Chilli	Panicum repens, Digitaria sanguinalis, Elusine indica, Dinebra arabiaca, Echinochloa colonom, Portulaca oleracea, Commelina benghalensis, Aramthus blitum, Chenopodium album	677.27	1500-1750	500	98
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
Pretilachlor 37%EW					
Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonom</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Digitaria sanguinalis</i> <i>Fimbristylis miliacae</i> <i>Eclipta alba</i> <i>Ludwigia parviflora</i> <i>Monochoria vaginalis</i>	0.60-0.75 kg	1.5-1.875 ltrs.	500	90
Pretilachlor 30.7% EC					
(Direct seeded rice under puddled condition)	<i>Echinochloa crusgalli</i> <i>Echinochloa colonom</i> <i>Cyperus difformis</i> <i>Cyperus iria</i>	0.45- 0.60kg.	1.5-2.0 ltr.	500	110
Pretilachlor 50% EC					

Transplanted Rice	<i>Echinochloa crusgalli</i> <i>Echinochloa colonum</i> <i>Cyperus difformis</i> <i>Cyperus iria</i> <i>Fimbristylis miliaca</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
Proaquizafop 10% EC					
Soybean	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digiteria sanguinalis</i> , <i>Dactyloctenium egyptium</i> , <i>Eleusine indica</i>	50-75 g	500-750	500-750	21
Blackgram	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Digiteria sanguinalis</i> , <i>Dactyloctenium egyptium</i> , <i>Eleusine indica</i>	75-100 g	750-1000	500-750	21
Paraquat dichloride 24% SL					

Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Imperata Setaria sp., Commelina benghalensis, Boerraria hispida, Paspalum conjugatum,</i>	0.2-1.0 kg	0.8-4.25 ltr (For season long weed control, use 2.5-5.0 ltr for initial application. For subsequent repeat spot application use 1 litre)	200-400	Not Necessary (For season-long weed control, use 2.5 to 5 lit for initial application. For subsequent repeat spot application use 1 litre)
Potato (Post-emergence overall / inter-row application at 5-10 % emergence)	<i>Chenopodium sp. Angallis arvensis Trianthema monogyna Cyperus rotundus Fumeria parviflora</i>	0.5 kg	2.0 ltr.	500	100
Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Digera arvensis, Cyperus iria, Trianthema monogyna, Corchorus spp., Leucas aspera, Euphorbia spp.</i>	0.3-0.5 kg	1.25-2.0	500	150-180
Rubber (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	<i>Digitaria sp., Eragrostis sp., Fimbristylis sp.</i>	0.3-0.6 kg	1.5-2.5	600	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	<i>Echinochloa crusgalli, Cyperus iria, Ageratum conyzides, Commelina benghalensis, Marsilea quadriofoliata, Brachiaria mutica</i>	0.3-0.8 kg	1.25-3.5	500	N.A.

Wheat [pre-plant (minimum tillage) before sowing]	<i>Grassy & Broad leaf weeds</i>	1.0 kg	4.25 ltrs	500	120-150
Maize [pre-plant (minimum tillage) before sowing]	<i>Cyperus rotundus, Commelina benghalensis, Trianthema monogyna, Amaranthus sp., 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, Cyperus rotundus, Commelina benghalensis Amaranthus sp. 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 Cynodon dactylon Convolvulus sp. Portulaca sp. 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 Rosa eglantaria Rubus ellipticus</i>	0.75 kg	3.25 ltrs	700-1000	N.A.
Pyrazosulfuron Ethyl 10% WP					
Transplanted Rice	<i>Cyperus Iria, Cyperus difformis, Fimbristylis miliacea, Monochoria vaginalis, Ludwigia parviflora</i>	10-15 g	100-150	500-600	95

Pyriithiobac Sodium 10% EC					
Cotton (Gossypium)	<i>Trianthema Spp</i> <i>Amaranthus Spp</i> <i>Chenopodium Spp</i> <i>Digera Spp</i> <i>Celosia argentia</i>	62.5-75 gm	625-750	500	160
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 colomum,</i> <i>Dinebra retroflexa</i> <i>Digiteria marginata</i>	50.5	1000	500	94
Groundnut	<i>Echinochloa colomum,</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</i> <i>aegyptium,</i> <i>Digitaria sanguinalis,</i> <i>Eragrostis sp.,</i> <i>Paspalidium sp.,</i> <i>Echinochloa sp.,</i> <i>Dinebra ratroflexa</i>	37.5-50.0	750-1000	500	52
Onion	<i>Digitaria sp.,</i> <i>Eleusine indicia,</i> <i>Dactyloctenium</i> <i>aegyptium,</i> <i>Eragrostis sp.,</i>	37.5-50.0	750-1000	375-450	7
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
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
Triallate 50% EC					
Wheat	<i>Avena fatua</i>	1.25 kg	2.5 kg.	250-500	150

HERBICIDE COMBINATIONS

Anilofos 24% +2,4-D ethyl Ester 32% EC					
Transplanted rice	Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum Fimbristylis miliacea	(0.24+ 0.32) to (0.36 + 0.48) kg	1-1.5 ltrs.	300	90
Bensulfuron methyl 0.6%+Pretilachlor 6% GR					
Transplanted Rice	Echinochloa crusgalli , Echinochloa colonum, ,Cynodon dactylon Cyperus iria , Cyperus difformis , Cyperus rotundus , Fimbristylis miliacea, Ludwigia parviflora,Marselia quadrifolia, Enhydra fluctuans,Sphenoclea zeylanica, Eclipta alba, Ammania baccifera.	60 + 600 gm	10 kg	N.A.	88
Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP					
Wheat	<i>Phalaris minor,</i> <i>Avena fatua,</i> <i>Chenopodium album,</i> <i>Melilotus sp.,</i> <i>Fumaria parviflora,</i> <i>Vicia sativa,</i> <i>Rumex sp.,</i> <i>Anagallis arvensis,</i> <i>Coronopus didymus,</i> <i>Lathyrus sp.,</i> <i>Convolvulus arvensis</i>	60+4	400	375 (Add 1250 ml surfactant at the time of spraying)	100

Clomazone 20%+2,4-D EE 30% EC					
Transplanted Rice	Echinochloa colonum , Echinochloa crusgalli, Cyperus iria, Cyperus difformis,Eclipta alba,Leptochloa chinensis,Panicum repens,Fimbristylis miliacea,Marsilea quadrifoliata, Ludwigia parviflora.	0.250-0.375 Kg	1.25 ltrs.	500	100-110
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
Hexazinone 13.2% + Diuron 46.8 % WP					

Sugarcane	Enchinochloa colonum Dactyloctenium aegyptium Trianthema monogyna Amaranthus viridis Ipomea spp Cyperus rotundus Cyperus esculentus Setaria spp Parthenium hysterophorus Euphorbia hirta	1200 gm (264+936)	2 Kg	500	282-306
Imazamox 35% + Imazethapyr 35% WG					
Soybean	<i>Echinochloa sp.</i> <i>Dinebra arabica</i> <i>Digitaria sp.</i> <i>Brachiaria mutica</i> <i>Commelina benghalensis</i> <i>Euphorbia hirta</i>	70	100	375-500 Add surfactant (Cyspread) @ 1.5ml/litre of water + Ammonium sulphate @ 2.0 gm/litre of water	56
Mesosulfuron Methyl 3% + Iodosulfuron Methyl Sodium 0.6% WG					
Wheat	Phalaris minor Medicago denticulata Chenopodium album Melilotus sp. Rumex sp. Anagallis arvensis Coronopus didymus Lathyrus aphaca Fumaria parviflora	(12+2.4 gm)	400 ml.	400-500 + Surfactant (Genopol LRO fluid) @ 500 ml/ha	96

Metsulfuron Methyl 10% + Chlorimuron ethyl 10% WP					
Transplanted Rice (Pre-emergence application-3 DAT	Cyperus iria, Cyperus difformis, Fimbristylis miliacea, Eclipta alba, Ludwigia parviflora, Cyanotis axillaries, Monocoria vaginalis, Marsilea quadrifoliata,	4gm	20 gm.	300	90
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	Echinochloa crusgalli Digeria arvensis Commelina Benghalensis, Amaranthus viridis Portulaca oleracea	(750+50) to (900+60) gm	2.5-3.0 ltrs	500-600	90
Sulfosulfuran 75%+ Metsulfuron Methyl 5%WG					
Wheat	Phalaris minor, Chenopodium sp., Medicago denticulata, Coronopos dedymus, Rumex spp. Melilotus alba, Anagallis arvensis	(30+2)	40 gm	250-500 + surfactant 1250 ml/ha	110