

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 - 31/01/2020)

(Based on certificate issued)

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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)		
Alachlor 50% EC (The use of Alachlor shall be completely banned with effect from the 31st December, 2020.)					
Cotton	*Digera arvensis* *Echinochloa colonum* *Eragrostis major* *Euphorbia hirta* *Phyllanthus niruri* *Portulaca oleracea* *Trianthema portulacastrum* *Flaveria australasica* *Gynandropsis pentaphylla*	2-2.5 kg	4-5 ltrs.	250-500	210-240
Maize	*Echinochloa colonum,* *Euphorbia hirta* *Eleusine indica*	2.5 kg	5 ltrs.	250-500	90
Groundnut	*Amaranths viridis* *Digitaria spp.* *Echinochloa spp.* *Euphorbia hirta* *Phyllanthus niruri* *Portulaca oleracea* *Trianthema portulacastrum* *Acanthosermum hispidum* *Flaveria australasica*	2.5 kg 1.5-2.5 kg	5 ltrs. 3-5 ltrs.	250-500 250-500	120-150 120-150
Soybean	*Amaranthus viridis* *Cleome viscose* *Cyperus iria* *Dactyloctenium aegyptium* *Echinochloa spp.* *Eleusine indiaca* *Setaria glauca*	2.5 kg	5 ltrs.	250-500	
Alachlor 10% GR (The use of Alachlor shall be completely banned with effect from the 31st December, 2020.)					
Cotton	*Dactyloctenium aegyptium*	2.0-2.5 Kg	20-25 Kg	-	-

Maize / Groundnut / Soybean	*Digitaria spp., Echinochloa spp., Chenopodium album*	1.5-2.5 Kg	15-25 Kg	-	-
Anilofos 30% EC					
Transplanted paddy	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis, Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp. Marsilea quadrifoliata*	0.3-0.45 kg	1-1.5 ltrs.	375-500	30
Anilofos 18% EC					
Transplanted Paddy	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis, Cyperus iria, Eclipta alba Ischaemum rugosum Fimbristylis sp.*	0.30-0.45 kg	1.66-2.5 kg	500-600	-
Anilophos 2 % G					
Transplanted rice	*Echinochloa crusgalli Echinochloa colonum Ischaemum rugosum Cyperus iria, Cyperus difformis, Fimbristylis sp.*	0.4-0.5 Kg	20-25 Kg	-	30
Atrazine 50% WP					
Maize	*Trianthama monogyna Digera arvensis, Echinochloa spp Eleusine Spp. Xantheium strumarium Brachiaria sp, Digitaria sp, Amaranthus viridis, Cleome viscose, Polygonum spp.*	0.5-1.0 kg	1-2 kg	500-700	-
Azimsulfuron 50% DF					

Rice (Transplanted)	*Enchinochloa colonum, E. crusgalli, Cyperus spp., Fimbristylis miliacea, Ludwigia parviflora, Eclipta alba, Bergia capensis, Marsilea quadrifoliata, Ammania baccifera, Sphenoclea zeylanica*	35	70	300	59
Rice (Direct Seeded)	*Enchinochloa colonum, E. crusgalli, Cyperus spp., Fimbristylis miliacea, Ludwigia parviflora, Eclipta alba, Bergia capensis, Marsilea quadrifoliata, Ammania baccifera, Sphenoclea zeylanica*	35	70	300	59
Bensulfuron Methyl 60% DF					
Transplanted Rice. Pre-em (3 DAT)	*Marsilea quadrifoliata Eclipta alba, Ammania baccifera ,Ludwigia parviflora ,Sphenoclea Zeylenica , Monochoria vaginalis , Alternanthera sessillis Cyperus iria , Cyperus difformis , Fimbristylis miliacea, Scirpus royeli*	60 gm	100 gm	300 ltrs	88 days
Transplated Rice (post-em 20 DAT)	*Ammania baccifera Cyperus differmis Cyperus iria Eclipta alba Fimbristylis miliacca Ludwigia parviflora Marsilea quadrifoliata Monochoria vaginalis Alternanthera sessillis Scirpus royeli Sphenoclea zeylenica*	60gm	100 gm	300 ltrs.	71
Bentazone 480 g/l SL					
Soybean (Early POE: 2-3	*Cyperus rotundus Achalipha indica Commelina bengalansis*	960	2000	500	62

leaf stage of weeds)	*Echinocloa colanum* *Echinocloa crusgalli*				
Transplanted rice (Early POE: 2-3 leaf stage of weeds)	*Cyperus rotundus* *Cyperus diformis* *Ludwigia sps.* *Eclipla alba* *Echinocloa colanum* *Echinocloa crusgali*	960	2000	500	71
Bispyribac Sodium 10% SC					
Rice (Nursary) (10-12 DAS)	*Echinochloa crusgalli* *Echinochloa colonum*	20 gm	200 ml.	300 ltrs.	-
Rice (Transplanted) (10-14 DAP)	*Ischaemum rugosum* *Cyperus difformis,* *Cyperus iria*	20-25 gm	200-250 ml	300 ltrs.	78
Rice (Direct seeded) (10-15 DAS)	*Fimbristylis miliacea ,* *Eclipta alba , Ludwigia parviflora, Monochoria vaginalis, ,Alternanthera philoxeroides ,* *Sphenoclcea zeylenica*	20-25 gm	200-250 ml	300 ltrs.	78
Butachlor 50% EC					
Paddy (transplanted)	*Cyperus difformis* *Cyperus iria* *Echinochloa crusgalli, Echinochloa colonum, Eleusine indica, Eclipta alba, Fimbristylis miliacea, Ludwigia parviflora, Sphenoclea zeylanica*	1.25-2.00kg	2.5-4 ltrs	250-500	90-120
Butachlor 5% GR					
Transplanted Rice	*Echinochloa Crusagalli* *Digitaria sanguinalis* *Setaria spp., Commelina benghalensis, Fimbristylis milliacea, Cyperus iria,* *Eleusine indica, Panicum spp., Echinochloa Colonum, Eclipta alba, Cyperus Defformis, ludwigia paviflora.*	1.25 -1.87 Kg	25.00 – 37.50 Kg	-	90 - 105

Butachlor 50 % EW					
Transplanted Rice	*Echinochloa colonum* *Echinochloa crusgalli,* *Cyperus difformis* *Cyperus iria* *Eclipta alba,* *Fimbristylis miliacea* *Ludwigia parviflora,* *Sphenoclea zeylanica* *Monochoria vaginalis*	1.25-1.5 Kg	2.5-3.0	2.50-500	-
Carfentrazone ethyl 40% DF					
Wheat (25-35 DAS)	*Chenopodium album, Melilotus Indica, Melilotus alba, Medicago denticulata, Lathyrus aphaca, Analgalis arvensis, Vicia sativa, Circium arvense, Rumex sp, Malwa sp.*	20gm	50 gm.	400	80
Direct seeded Rice (10-15 DAS)	*Ludwigia parviflora* *Digera arevensis* *Phyllanthus niruri* *Spilanthes sp,* *Eclipta alba* *Cyperus sp.*	25	62.50	300	102
Chlorimuron Ethyl 25% WP + Surfactant					
Soybean (3-15DAS)	*Cyperus rotundus* *Commelina benghalensis* *Celosia argentea* *Digera arvensis* *Cucumis trigonus* *Cyprus iria,* *Parthenium hysterophorus,* *Acalypha indica,* *Phyllanthus niruri,* *Trianthema portulacashurm,* *Caesulia auxillaris*	9 gm	36 gm.	300 ltrs. + non ionic surfactant 0.2 % (Iso-octyl phenoxyl-poloxethanol 12.5 %)	45

Rice (transplanted) (5-10 DAT)	*Echinochloa crusgalli, Eclipta alba, Commelina benghalensis, Chenopodium album, Cyperus rotundus, Echinochloa colonum*	6gm	24 gm.	500-600	60
Cinmethylin 10% EC					
Transplanted Rice	*Cyperus iria Fimbristylis milacea Monochoria vaginalis Commelina Benghalensis Echinocloa crusgalli Marsilea minuta*	75-100 gm	0.75-1.0 ltrs.	500-700	110
Clodinafop- propargyl 15%WP					
Wheat	*Phalaris minor (Canary grass)*	60gm	400 gm.	375-400	110
Clomazone 50%EC					
Soybean	*Digiteria sp. Echinochloa sp. Parthenium hysterophorus Commelina sp.*	0.75-1.00Kg	1.5-2.0 Ltrs.	500-600	90
Transplanted Rice	*Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria, Ludwigia parviflora ,Eclipta alba*	0.4 - 0.5kg	0.8-1.0 ltr	500-750	90
Sugarcane	*Enchinochloa colonum Brachiaria repens Dactylotenium aegyptium Trianthema portulacastrum*	0.75-1.00 kg a.i./ha	1.5-2.0 ltr/ha	500 Lit	296
Cyhalofop Butyl 10% EC					
Rice (Directed seeded)	*(Echinochloa spp.) Barnyard grass*	75-80 gm	0.75-0.80ltr	500-600	90
2,4-D Dimethyl Amine salt 58% SL					

Maize	*Trianthema monogyna, Amaranthus sp., Tribulus terristeris, Boerhaavia diffusa, Euphorbia hirta, Portulaca oleracea, Cyperus sp.*	0.5 kg	0.86	400-500	50-60
Wheat	*Chenopodium album, Fumaria parviflora, Melillotus alba, Vicia sative, Asphodelus tenuifolius, Convolvulus arvensi,*	0.5-0.75 kg	0.86-1.29	500-600	-
Sorghum	*Cyperus iria, Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri.*	1.8 kg	3.1	500-600	-
Potato	*Chenopodium album, Asphodelus tenuifolius, Anagalis arvensis, Convolvulus arvensis, Cyperus iria, Portulaca oleracea.*	2.0 kg	3.44	400	-
Sugarcane	*Cyperus iria* *Digitaria sp.* *Dactylactenium aegyptium* *Digera arvensis* *Portulaca oleracea* *Commelina benghalensis* *Convolvulus arvensis*	3.5	6.3	500	-
Aquatic Weeds	*Eichhornia crassipes.*	0.5-1.0 kg	0.86-1.72	600-700	15-20
Non crop area	*Parthenium hysterophorus,*	2.65 kg	4.56	300-400	15-20
	Cyperus rotundus	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	*Euphorbia spp.* *Convolvulus arvensis* *Coronopus didymus* *Amaranthus viridis* *Oxalis corniculata* *Tribulus terrestris* *Fumaria parviflora* *Sonchus arvensis*	1.00-2.5 kg	1.25-3.2 kg	600	>6 months
Grapes	*Convolvulus spp.*	2.0	2.5	500	> 90 days

	Tridax procumbens				
Maize	*Amaranthus viridis, Trianthema portulacastrum Phyllanthus niruri., Euphobia geniculata, Amaranthus spinosus. Cleome chelidonii, Lagasca mollis*	1.00 Kg.	1.25	500	120(Pre-em) 90(post-em)
Sugarcane	*Boerhaavia diffusa Chenopodium album Tribulus terristris Portulaca oleracea Xanthium spp. Convolvulus arvensis Amaranthus spinosus Digera arvensis Celosia argentina.*	2.0-2.6	2.5-3.25	600-900	300
Wheat	*Leucas aspera, Chenopodium album, Vicia sativa, Argemone maxicana, Fimbristylis miliacea, Anagalis arvensis, Amaranthus spinosus.*	0.5-0.84 kg.	0.625-1.0	500	90
Aquatic Weeds	*Boerhaavia hispada, Eichhornia crassipes.*	1.5 kg	1.85.	600-1000	-
Non crop land	*Parthenium hysterophorus, Cyperus rotundus,* *Solanum elaeagnifolium.*	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	*Trianthema monogyna , Amaranthus sp. , Portulaca oleracea., Tribulus terristris, Boerhaavia diffusa, Euphorbia hirta ,Cyperus sp.*	0.9 kg	2.65 ltr	400-450	50-60
Sorghum	*Cyperus iria, Striga sp. Digera arvensis, Convolvulus arvensis, Trianthema sp., Tridax procumbens, Euphorbia hirta, Phyllanthus niruri.*	1.0 kg	2.94	425	-

Transplanted Paddy	*Echinochloa colonum, Echinochloa crusgalli.*	0.85 kg	2.5	400	-
Wheat	*Chenopodium album, Asphodelus tenuifolius, Fumaria parviflora Melilotus alba. Spergula arvensis*	0.45-0.75 kg	1.32-2.2	450-500	-
Sugarcane	*Cyperus iria, Digitaria sp., Dactyloctenium, Aegyptiana, Digera arevensis, Portuluca oleeracea, Commelina benghalensis, amaranthus sp., Convolvulus arvensis*	1.2 to 1.8	3.53- 5.29	500	300-330
Aquatic Weeds	*Eichhornia crassipes*	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	*Echinochloa Coloum* *E. Crusgalli* *Panium ischaemum* *Cynodon dactylon (germinating)* *Cyperus rotundus (germinating)* *Cyperus iria* *C. difformis* *Ludwigia parviflora* *Monochoria Vaginalis* *Marsilea quadrifoliata* *Cyanotis cucutata* *Eclipta alba* *Ammania baccifera*	1.0 kg	25 kg	-	-
Diclofop Methyl 28% EC					
Wheat	*Avena fatua,* *Phalaris minor*	0.7-1.0 kg	2.5-3.5 ltr	500	90
Diuron 80% WP					

Cotton	*Amaranthus spp, Chenopodium album, Convolvulas arvensis Setaria glauca, Digitaria sp, Portulaca oleracea, Xanthium strumerium, Anagallis arvensis, Asphodelus temifolius, Euphorbia sp, Visia sativa Paspalum conjugatum,*	0.75-1.5 kg	1-2.2Kg.	625	-
Banana	*Cyperus iria, Commelina benghalensis, Digitaria sp,Amaranthus spp,Dactyloctenium,Chloris barbata,Eragrostis zeylenica,*	1.60 kg	2 kg.	625	-
Rubber	*Grasses & Non grasses*	1.6-3.2 kg	2-4kg.	625	-
Maize	*Cyperus iria, Echinochloa spp, Digitaria spp, Chenopodium album, Eleusine sp, Amaranthus sp, Phyllanthus niruri*	0.8 kg	1.0 kg.	600	-
Citrus (sweet orange)	*Cyperus iria, Tribulus Terristris, Digera arvensis, Commelina nudiflora, Cocumis trigonus.*	2-4.0kg	2.5-5.0kg	600	-
Sugarcane	*Cyperus iria, Portulaca racea, Echinochloa rusgalli, Cynotis spp, Amaranthus spp, Convonvulus Spp., Digitaria spp.*	1.6-3.2kg	2.0-4.0 kg.	600	-
Grapes	*Cleome viscose, Chenopodium album. Cyperus iria, Euphorbia hirta, Alternanthera echinata, Amaranthus spp, Argemone maxicana, Ipomoea spp, Xanthium strumerium, Fumeria parviflora, Asphodelus tenuifolius, Medicago denticulata, Eleusine aegyptia.*	1.6kg	2.0 kg.	625	-
Diclosulam 84% WDG					

Soybean	*Cyperus spp, Commilena benghalensis, Euphorbia geniculata, Digera arvensis, Acylipha spp, Echinochlo colona*	22-26gm	26.2-30.9 Time of application 0-3 DAS	500	60
Groundnut	*Amaranlhus viridis, Parthenium hysterophorus, Trianthema sp., Euphorbia geniculate, Cyperus spp., Echinochloa colona*	22-26	26.2-30.9	-	77
Ethoxysulfuron 15% WDG					
Transplanted Rice.	*Fimbristylis miliacea Cyperus iria ,Cyperus difformis, Scirpus sp.,Eclypta alba, Marsilea quadrifoliata, Ammania baccifera, Monochoria vaginallis*	12.5-15gm	83.3-100gm	500	110
Fenoxaprop-p-ethyl 9.3% w/w EC (9% w/v)					
Soybean	*Echinochloa colonum, Echinochloa crusgalli, Digitaria sp, Eleusine indica, Setaria sp, Brachiaria sp.*	100gm.	1111 ml. (15-20 DAS)	250-300	100
Rice (transplaned)	*Echinochloa crusgalli, Echinochloa colona*	56.25 gm	625 ml. (10-15 DAT)	300-375	70
Blackgram	*Echinochloa crusgalli, Echinochloa colona Digitaria sp. Dactylocteneum Aegyptium*	56.25-67.5 g	625-750ml. (15-20 DAS)	375-500	43
Cotton	*Echinochloa sp. Eluesine indica Dactylocteneum Aegyptium Eragrostit minor*	67.5 g	750ml. (20 -25 DAS)	375-500	87
Onion	*Echinochloa colonum Dactyloctenium aegyptium*	78.75	875	375	10
Groundnut	*Echinochloa sp.*	78.75	875	375	89

Fenoxaprop-p-ethyl 10% EC					
Wheat	*Phalaris minor*	100-120gm	1.0-1.20 kg	250-300	110
Fenoxaprop-p-ethyl 6.7% w/w EC					
Rice (Transplanted & Direct Seeded)	*Echinochloa sp.*	56.6-60.38g	812.5-875	375-500	61
Fluazifop-p-butyl 13.4% EC					
Soybean	*Echinochloa colonum,* *Echinolchloa crusgalli,* *Eleusine indica,* *Cyanodon dactylon,* *Dactyloctenium Aegyptium,* *Digitaria sp.,* *Setaria sp.*	125-250 g	1000-2000	500	90
Flucetosulfuron 10% WG					
Rice (Transplanted)	*Echinochloa colonum* *Echinolchloa crusgalli* *Digitaria sanguinalis* *Paspalum discichum* *Paspalum scrobitulatum* *Leersia hexandra* *Panicum repens* *Setaria glauca* *Dinebra retroflexa* *Cyprus difformis* *Cyprus iria* *Fimbristylis miliaceae* *Alternanthera philoxeroides* *Alternanthera sessilis* *Marsilea quadrifolia* *Ammania baccifera* *Eclipta alba* *Eclipta prostrate* *Monochoria vaginalis* *Lindernia ciliate* *Ludwigia parviflora* *Sphenoclea zeylanica* *Commelina diffusa* *Cyanotis axillaris*	25	250	500	90

Fluchloralin 45% EC					
Cotton	*Acanthospermum hispidum, Cleome viscosa, Datura sp. Trianthema monogyna Tridax procumbens, Cynodon dactylon (germinating) Amaranthus spp., Portulaca spp, Achyranthus aspera, Euphorbia hirta, Cenchrus cathorticus, Digitaria sanguinalis, Eleusine sp, Panicum sp, Lagasca mollis, Gynandropsis pentaphylla, Achalypha indica*	0.9-1.2kg	2.0-2.68 ltrs.	500-800	180
Soybean	*Eragrostis sp., Boerhaavia hispada, Cyperus compestris,*	1.0-1.5kg.	2.22-3.33	500-800	120-150
Flufenacet 60% DF					
Paddy (Transplanted)	*Echinochloa crusgalli Echinochloa colonum Cyperus iria*	120 gm	200 gm	500	90-110
Flumioxazin 50% SC					
Soybean	*Commelina benghalensis, Digera arvensis, Euphorbia spp., Phyllannthus niruri, Echinochloa crusgalli*	125 g.a.i/ha	250ml/ha	500	110
Wheat	*Runnex spp., Medicago denticulate, Coronopus didymus, Chenopodium album, Phalaris minor, Avena fatua*	125 g.a.i/ha	250 ml/ha	500	137
Fluthiacet Methyl 10.3% EC					

Soybean	*Commelina sp, Digeru arvensis, Acalypha indica, Amaranlhus viridis.*	13.6	125	500	73
Glufosinate Ammonium 13.5% SL (15% w/v)					
Tea	*Panicum repens, Borreria hispida,Imperata cylindrical, Digitaria sanguinalis,Commelina benghalensis, Ageratum conyzoides, Eleusine indica,Paspalum conjugatum*	0.375-0.500	2.5-3.3	375-500	15
Cotton	*Echinochloa sp. Cynodon dactylon Cyperus rotundus Digitaria marginata Dactylocteneum aegyptium*	375-450	2.5-3.0	500	96
Glyphosate 20.2% SL IPA salt					
Non Crop area	*Phyllanthus niruri, Ageratum conyzoides, Parthenium hysterophorus, Sorghum halepense, Amaranthus spinosus, Alternanthera sessilis, Cynodon dactylon, Cyperus rotundus, Echinochloa colonum, Trianthema portalucastrum*	0.82-1.23 kg	4.1-6.15	400-500	N/A
Glyphosate Ammonium salt 20 % SL					
Non Crop area	*Cynodon dactylon Commelina benghalensis Panicum spp. Dactyloctenium aegyptium Eragrostis major Poa anua Cyperus rotundus Parthenium hysterophorous Acalypha indica Digeria arvensis Phyllanthus niruri*	4.52-6.79g a.i./litre	20-30ml/lit	300-600	-

	Euphorbia geniculate *Corchorus actangularis* *Saccharum spontenium* *Eleusine indica* *Imperata cylindrical* *Ageratum conzoides*				
Glyphosate 41% SL IPA Salt					
Tea	*Arundinella bengalensis* *Axonopus compressus* *Cynodon dactylon* *Imperata cylindrical* *Kalm grass* *Paspalum scrobiculatum* *Polygonum perfoliatum*	0.820-1.230kg.	2.0-3.0	450	21
Non-cropped area	Soghum helepense and other dicot & monocot weeds in general	0.820-1.230kg.	2.0-3.0	500	-
Glyphosate 54% SL (IPA Salt)					
Non Crop Area	*Ageratum conyzoides* *Alternenthera sessilis* *Commilina spp* *Cyperus spp* *Echinochloa sp.* *Eclipta alba* *Iscaemum rogosum* *Setaria spp*	1.8 kg	3.33 ltrs.	400-500	-
Glyphosate Ammonium Salt 5% SL					
Tea	*Ageratum conyzoides* *Biden pilosa* *Boreria latifolia* *Cynodon dactylon* *Cyperus rotundus* *Digitaria sanguinalis* *Euphorbia spp.* *Imperata cylendrica* *Paspalum conjugatum*	1.5 kg.	30 ltrs.	500	7 days

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

Soybean	*Cyperus difformis* *Echinochloa colonum* *E. crusgalli* *Euphorbia hirta* *Croton sperrsifeorus,* *Digera arvensis,* *Commelina* *Benghalensis*	100 gm	1.0 Ltr.	500-600	75
Groundnut	*Cyperus difformis* *Commelina* *benghalensis,* *Trianthema* *portulacasturm,* *Eragrostis pilosa*	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)	*Echinochloa colonum* *Brachiaria mutica,* *Euphorbia hirta* *Commelina benghalensis* *Dinebra arabica,* *Digitaria spp.,*	75-100gm+ MSO adjuvant @ 2ml/l of water	750-1000 ml+ MSO adjuvant @ 2ml/l of water	375	72
Groundnut (1-2 Leaf stage of weeds or 7-14 days after sowing)	*Echinochloa colonum* *Euphorbia hirta* *Commelina benghalensis* *Digera arvensis,* *Amaranthus viridis,* *Physalis minima.*	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)	*Cyperus routandus* *Echinochloa spp.* *Dinebra arabica* *Digera spp.,* *Brachiaria mutica,* *Commelina benghalensis* *Commelina communis* *Euphorbia geneculata* *Cyanotis axiallaris*	70 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre + Ammonium Sulphate @ 2 g/lit of Water	100 g/ha + Surfactant (Cyspread) @ 1.5ml/Litre+ Ammonium Sulphate @ 2 g/lit of Water	500	56
Isoproturon 50% WP					
Wheat	*Phalaris minor* *Avena fatua* *Poa annua*	1.0kg	2.0	750	-

Isoproturon 75% WP					
Wheat	*Phalaris minor* *Avena fatua* *Poa annua*	1.0kg	1.33 kg.	750	60 days
MCPA, Amine salt 40% WSC					
Transplanted Rice	*Cyperus rotundus* *Impmoea reptans* *Ammania baccifera* *Lippia nodiflora* *Alternanthera sp.* *Ludwigia parviflora* *Marsilea quadrifoliata*	0.8-2.0 kg	2-5	400-600	
Wheat	*Chenopodium album,* *Asphodelus tenuifolius* *Fumaria parviflora* *Carthamus oxyacantha* *Launea sp.,* *Pluchia lanceolata,* *Melilotus indica,* *Vicia hirsuta,* *Lathyrus aphaca,* *Medicago denticulata,* *M. lupulina,* *Spergula arvensis,* *Argemone maxicana,* *Phyllathus niruri.*	1.0 kg	2.5	300-600	
Metamifop 10% EC					
Direct seeded Rice	*Barnyard grass* *(Echinocloa spp),* *Sacchiolepis* *Dactyloctenium, Digiteria,* *panicum*	100 g.a.i	1000 ml	350	87
Metamitron 70% SC					

Sugarbeet	**<u>Sedges & Grasses</u>** *Cynodon dactylon* *Cyperus rotundus* *Dactyloctenium aegyptium* **<u>Broad Leaves</u>** *Convolvulus arvensis* *Chenopodium album* *Parthenium hysterophorus* *Digera arvensis*	a) 2-3 leaf stage of weed – 0.7 kg a.i/ha, b) 4-6 leaf stage of weed – 1.4 kg a.i/ha, c) 8-10 leaf stage of weed – 1.4 kg a.i/ha	a)2-3 leaf stage of weed – 1kg/ha, b) 4-6 leaf stage of weed – 2 kg/ha, c) 8-10 leaf stage of weed – 2 kg/ha	500	90
Methabenzthiazuron 70% WP					
Wheat (PE –2DAS)	*Phalaris minor,* *Avena fatua, Avena ludoviciana,Poa annua,*	1.05-1.4kg	1.5-2.0 kg.	700-1000	100
Wheat (Post –EM 30 DAS)	*Polypogom monspliensis,* *Anagallis arvensis,* *Chenopodium album*	1.05-1.75kg	2.0-2.5 kg.	700-1000	100
Wheat (Early POE.16-18 DAS)	*Phalaris minor,* *Avena fatua,* *Avena ludoviciana,* *Chenopodium album*	0.7-0.87 kg	1.0-1.25 kg.	700-1000	100
Metolachlor 50% EC					
S loybean	*Echinochloa colonum* *Eleusine indica* *Digitaria sp.* *Dactyloctonium aegyptium* *Panicum sp.* *Cyperus sp.* *Amaranthus viridis*	1.0 kg	2.0 ltrs.	600-750	-
Metribuzin 70% WP					
Soybean	*Digitaria spp.* *Cyperus esculentus* *Cyperus campestiris* *Borreria spp.* *Eragrostis spp.*	0.35-0.525 kg	0.5-0.75kg.	750-1000	30

Wheat	*Phalaris minor* *Chenopodium album* *Melilotus spp.*	Medium soil-0.175kg Heavy soil - 0.21kg	0.25 kg 0.30 kg.	500-750	120
Metsulfuron Methyl 20% WP					
Wheat	*Chenopodium album,* *Melilotus indica,* *Lathyrus aphaca,* *Anagallis arvensis,* *Vicia sativa,* *Cirsium arvense.*	4 gm	20 gm	500-600 + Surfactant (Iso-Octyl Phenoxyl-Poloxethanol 12.5%)@ 500 ml/ha	80
Rice (transplanted)	*Cyperus rotundus,* *Spheanochlea spp.,* *Fimbristylis sp.* *Ludwigia parviflora* *Marsilea quadrifoliata*	4 gm.	20 gm.	500-600	60
Sugarcane	*Cyperus esculentus,* *Amaranthus viridis,* *Portulaca oleracea,* *Parthenium hysterophorus,* *Trianthema sp.,* *Cleome viscosa,* *Solanum sp.,* *Commelina benghalensis,* *Euphorbia sp.,* *Digeria sp.*	6	30	500-600 (Add non - ionic surfactant Iso-octyl-phenoxyl - poloxethanol 12.5% @ 2ml per liter of spray volume (0.2%)	346
Metsulfuron Methyl 20% WG					
Wheat	*Chenopodium album* *Melilotus indioca* *Melilotus alba* *Lathyrus aphaca* *Anagalis arvensis* *Vicia sativa* *Rumex denticulate* *Convolvulus arvensis* *Meedicago denticulate*	4 gm.	20 gm.	500-600 + Surfactant (Iso-Octyl Phenoxyl-Poloxethanol 12.5%) @0.2%	76

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

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

Wheat	*Phalaris minor, Chenopodium album, Melilotus alba, Portulaca oleracea, Anagallis arvensis, Fumaria parviflora, Poa annua*	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)	*Echinochloa colona, E. crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis*	Light to Heavy soil 1-1.5kg	3.3 –5 Ltrs.	500-700	
Cotton	*Echinochloa spp. Euphorbia hirta Amarnanthus viridisPortulaca oleraceaTrianthema spp. Eleusine indica*	0.75-1.25kg	2.5-4.165 ltrs	500-700	150
Soybean	*Echinochloa spp., Euphorbia spp., Amarnanthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica*	0.75-1.0kg	2.5-3.3 ltrs.	500-700	110
Pigeon pea	*Digitaria sanguinalis Digera arvensis Amaranthus sp. Euphorbia hirta Trianthema sp. Cyperus sp. Eragrostis sp.*	0.7 – 1.00	2.5 – 3.33	500	133
Pendimethalin 5 % G					
Rice (Transplanted & Direct sown puddled)	*Echinochloa colona, E. crusgalli, Fimbristylis miliacea, Marselia quadrifoliata, Alternanthera sessilis, Ammonia baccifera, Ludwigra parviflora, Eclipta alba, Cyperus difformis*	1.0-1.5 kg	20-30 kg	-	-

Pendimethalin 38.7% CS					
Soybean	*Echinochloa colonum* *Dinebra arabuica* *Digitaria sanguinalis* *Bracharia mutica* *Dactyloctinum aegyptium* *Portulaca oleracea* *Amaranthus viridis* *Euphorbia geniculata* *Cleome viscose*	580.5-677.25gm	1500-1750	500	40
Cotton	*Panicum repens, Digitaria sanguinalis, Brachiaria mutica (Grasses), Pennisetum purpureum, Cyperus rotundus (sedge), Lantana camjara, Portulaca oleracea, Eclipta prostrate, Commelina benghalensis (Broad leaves weeds)*	580.5-677.25gm	1500-1750	500	101
Chilli	*Panicum repens, Digitaria sanguinalis, Elusine indica, Dinebra arabiaca, Echinochloa colonum, Portulaca oleracea, Commelina benghalensis, Aramthus blitum, Chenopodium album*	580.5-677.25gm	1500-1750	500	98
Onion	*Echinochloa colonum, Cyperus rotundus(Sedge) Cynodon dactylon Dinebra Arabic Euphor beageneculata Commelina bengalensis (Broad Leave weeds)*	580.50-677.25gm	1500-1750	500	104
Pinoxaden 5.1% EC					
Wheat	*Phalaris minor (*Canary grass) *Avena ludoviciana (*Wild oat)	40-45 g	800-900 ml 30-35 DAS	225-300	90
Penoxsulam 21.7 % SC					

Rice (Transplanted)		*Ammania bacifera, Cyperus difformis, Echinochloa colonum, Echinochloa crusgalli, Cyperus iria, Fimbristylis miliacea, Ludwigia spp. Monochoria spp. Sphenecelea zeylanica,*	22.5 to 25 (pre-emergence 0-5 DAT) 20 to 22.5 (post-emergence 10-12 DAT)	93.7 to 104.2 83.3 to 93.7		60
Penoxsulam 2.67% OD						
Rice (Transplanted Rice)	Grasses	*Echinochloa Colona Echinochloa Crusagalli*	22.5-25	900-1000 ml/ha	300-500	60
	Sedges	*Cyperus difformis*				
	Broad Leaved Weeds	*Caesulia axillaris*				
Pretilachlor 37%EW						
Transplanted Rice		*Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria Digitaria sanguinalis Fimbristylis miliacae Eclipta alba Ludwigia parviflora Monochoria vaginalis*	0.60-0.75 kg	1.5-1.875 ltrs.	500	90
Pretilachlor 30.7% EC						
(Direct seeded rice under puddled condition)		*Echinochloa crusgalli Echinochloa colonum Cyperus difformis Cyperus iria*	0.45-0.60kg.	1.5-2.0 ltr.	500	110
Pretilachlor 50% EC						

Transplanted Rice	*Echinochloa crusgalli* *Echiniochloa colonum* *Cyperus difformis* *Cyperus iria* *Fimbristylis miliacae* *Eclipta alba* *Ludwigia parviflora* *Monochoria vaginalis* *Leptochloa chinensis* *Panicum repens*	0.50-0.75 kg.	1.0-1.5 ltrs.	500-700	75-90
Propaquizafop 10% EC					
Soybean	*Echinochloa colonum,* *Echinochola crusgalli,* *Digiteria sanguinalis,* *Dactyloctenium eigyptium,* *Eleucine indica*	50-75 g	500-750	500-750	21
Blackgram	*Echinochloa colonum,* *Echinochola crusgalli,* *Digiteria sanguinalis,* *Dactyloctenium eigyptium,* *Eleucine indica*	75-100 g	750-1000	500-750	21
Onion	*Echinochloa colonum,* *Digiteria sanguinalis,* *Dactyloctenium eigyptium,* *Phalaris minor*	62.5	625	500	7
Paraquat dichloride 24% SL					
Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Imperata* *Setaria sp., Commelina benghalensis, Boerraria hispida, Paspalum conjugatum,*	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)	*Chenopodium sp.* *Angallis arvensis* *Trianthema monogyna* *Cyperus rotundus* *Fumeria parviflora*	0.5 kg	2.0 ltr.	500	100
Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Digera arvensis,* *Cyperus iria, Trianthema monogyna, Corchorus spp.,* *Leucas aspera,* *Euphorbia spp.*	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)	*Digitaria sp., Eragrostis sp., Fimbristylis sp.*	0.3-0.6 kg	1.5-2.5	600	N.A.
Coffee	*Digitaria marginata, paspalum Conjugatum, Ageratum, Conyzides, Borreria hispida, Euphorbia hirta, Commelina benghalensis, Eleusine indica*	250	1.0	400	N.A.
Rice [pre-plant (minimum tillage) before sowing/transplanting for controlling standing weeds]	*Echinochloa crusgalli, Cyperus iria, Ageratum conyzides, Commelina benghalensis, Marsilea quadriofoliata, Brachiaria mutica*	0.3-0.8 kg	1.25-3.5	500	N.A.
Wheat [pre-plant (minimum tillage) before sowing]	*Grassy & Broad leaf weeds*	1.0 kg	4.25 ltrs	500	120-150
Maize [pre-plant (minimum tillage) before sowing]	*Cyperus rotundus, Commelina benghalensis, Trianthema monogyna, Amaranthus sp., Echinochloa sp*	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)	*Cyperus iria, Cyperus rotundus, Commelina benghalensis Amaranthus sp. Echinochloa sp Trianthema monogyna*	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)	*Cyperus rotundus Cynodon dactylon Convolvulus sp. Portulaca sp. Tridax sp.*	0.5 kg.	2.0ltrs.	500	90
Apple (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	*Rosa moschata Rosa eglantaria Rubus ellipticus*	0.75 kg	3.25 ltrs	700-1000	N.A.
Aquatic weed control Water ways Canals, Ponds Etc	 *Eichhornia crassipes* *Hydrilla* *Typha latifolia*	 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	*Echinochloa crusgalli, Eleusine indica, Phyllanthus niruri*	127.5	150	500	103
Wheat	*Phalaris minor*	127.5	150	500	131
Soybean	*Echinochloa colonum, Celosia argentia, Trianthema porulacastrum, Amarthanas viridis, Digeria arvensis*	127.5	150	500	94
Pyrazosulfuron Ethyl 10% WP					
Transplanted Rice	*Cyperus Iria, Cyperus difformis, Fimbristylis miliacea, Monochoria vaginalis, Ludwigia parviflora*	10-15 g	100-150	500-600	95
Pyrithiobac Sodium 10% EC					
Cotton (Gossypium)	*Trianthema Spp Amaranthus Spp Chenopodium Spp Digera Spp Celosia argentia*	62.5-75 gm	625-750	500	160
Pyrozosalfuron Ethyl 70% WDG					
Transplanted Rice	*Echinicloa spp, Cyparus rotundus, Ludwigia parviflora*	21g	-	-	43
Quizalofop-ethyl 5% EC					
Soybean	*Echinochloa crusgalli E. colomum Eragrostis sp.*	37.5-50 gm.	0.75-1.0	500-600	95
Cotton	*Echinolchloa crusgalli, Echinochloa colonum, Dinebra retroflexa Digiteria marginata*	50.5	1000	500	94

Groundnut	*Echinochloa colonum, Dinebra retroflexa Dactyloctenium sp.*	37.5-50.0	750-1000	500	89
Black gram	*Eleusine indica, Dactyloctenium aegyptium, Digitaria sanguinalis, Eragrostis sp., Paspalidium sp., Echinochloa sp., Dinebra ratroflexa*	37.5-50.0	750-1000	500	52
Onion	*Digitaria sp., Eleusine indicia, Dactyloctenium aegyptium, Eragrostis sp.,*	37.5-50.0	750-1000	375-450	7
Quizalofop-ethyl 10% EC					
Soyabean	*Love grass (eragrosts ipilosa),Crab grass (digitaria sanguinalis/ wild finger/ Makra grass Viper grass, Barnyard grass, sanwa/Samel, Brown top millet*	375-45.0	375-450	300-500	69-103
Quizalofop –p-tefuryl 4.41% EC					
Soybean	*Echinochloa spp. Dinebra arabica Digitaria sanguinalis Cynodon dactylon Hemarthria compressa Eleusine indica*	30-40 gm	750-1000 ml	400	30
Sulfentrazone 39.6% w/w SC					
Soybean	*Acalypha sp.,Commelina sp.,Digera sp.,Cyprus sp. Echinochloa sp.,Brachiaria sp., Dinebra sp.*	360	750	500	88
Sugarcane	*Trianthema sp., Digera spp., Amaranlhus spp., Phyllanthus spp., Euphorbio spp., Dactelоctenium spp., Digitaria spp., Brachiaria spp., Echinocloa spp.,*	720	1500	500	306

	Cynodon spp, Cyperus spp.				
Sulfosulfuron 75% WG					
Wheat	*Phalaris minor* *Chenopodium sp.* *Melilotus alba*	25 gm	33.3 gm	200-250 + Cationic surfactant 1250ml/ha	110
Tembotrione 34.4% SC					
Maize	*Trianthema portulacastrum,* *Echinochloa sp.* *Bracheria sp.*	120g	286ml	500L	55
Triallate 50% EC					
Wheat	*Avena fatua*	1.25 kg	2.5 kg.	250-500	150
Triasulfuron 20% WG					
Wheat	*Chenopodium album,* *Anagallis arvensis,* *Medilotus alba,* *Rumex spp,* *Medicago denticulata,* *Fumeria pomiflora,* *Cronopus didymus,* *Spergula arvensis Malvela perviflora*	20	100	500	81
Tea	*Ageratum conyzoides,* *Borreria spp.,* *Crassocephalum crepidiodes,* *Oxalis spp.,* *Bidens pilosa,* *Conyza ambigua,* *Drymaria diandra,* *Emillia sonchifolia,* *Mitracarpus verticilatus,* *Syndnedrella nodiflora.*	25	125	500	7
Topramezone 336 g/l w/v SC					

Maize	*Elusine indica, Digitaria sanguinalis, Dactyloctenium aegyptium, Echinocloa spp., Chloris barbata, Parthenium hysterophorus, Digera arvensis, Amaranthus viridis, Physalis minima, Alternanthera sessilis, Convolvulus arvensis, Celotia argentea.*	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

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
Carfentrazone ethyl 0.43% + Glyphosate 30.82% EW					
Tea	*Ageratum conyzoides* *Bidenspilosa* *Borreria sp.* *Crassocephalumcr epidioides* *Cynadon sp.* *Cyperous sp.* *Digitaria sp.* *Eleusine indica* *Mimosa sp.* *Mltracarpus villosus* *Oxalis sp.*	12.90 +924.60	3000	500	7
Non-cropped area	*Ageratum conyzoides* *Axonopus sp.* *Brachiaria sp.* *Commelina sp.* *Cynodon dactylon* *Cyperous sp.* *Digitaria sp.* *Eleusine indica* *Imperata cylendrica* *Lantana camera* *Parthenium sp.*	12.90 +924.60	3000	500	--

Carfentrazone ethyl 20% + Sulfosulfuron 25% WG					
Wheat	*Phalaris minor* *Avena ludoviciana* *Chenopodium album* *Medilotus alba* *Rumex spp*	20+25 +750 ml Surfactant	100	300	110
Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP					
Wheat	*Phalaris minor,* *Avena fatua,* *Chenopodium album,* *Melilotus sp.,* *Fumaria parviflora,* *Vicia sativa,* *Rumex sp.,* *Anagallis arvensis,* *Coronopus didymus,* *Lathyrus sp.,* *Convolvulus arvensis*	60+4	400	375 (Add 1250 ml surfactant at the time of sparying)	100
Clodinafop propargyl 9% + Metribuzin 20% WP (W/W)					
Wheat	*Phalaris minor* *Chenopodium album,* *Melilotus sp* *Vicia sativa,* *Rumex sp* *Medicago sp* *Cronopus didymus* *Dinebra vetroflexa*	54+120	600	300	120
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	*Phalaris minor* (Little seed canary grass) *Chenopodium album* (Lambs quarter) *Lathyrus aphaca* (Meadow Pea) *Rumes Sp.* (Golden dock) *Melilotus spp.*(Sweet clover) *Avena ludoviciana.*	100+175	1250	375	110
Fluazifop-p-butyl 11.1% w/w + Fomesafen 11.1% w/w SL					
Soybean	*Echinochloa colona* *Digitaria sp* *Eleusine indica* *Dactyloctenium aegyptium* *Brachiaria reptans* *Commelina benghalensis* *Digera arvensis* *Trianthema sp.* *Phyllanthus niruri* *Aclypha indica* *Dinebra arbica*	250	1000	500	71
Groundnut	*Echinochloa colona* *Digitaria sp.* *Eleusine indica* *Dactyloctenium aegyptium* *Commelina benghalensis* *Eluropus villosus* *Indigofera glandulosa* *Chloris barbata* *Trianthema sp.* *Digera arvensis* *Cleome viscose* *Phyllanthus niruri* *Amaranthus virdis* *Cyperus sp.*	250	1000	500	82
Hexazinone 13.2% + Diuron 46.8 % WP					

Sugarcane	*Enchinochloa colonum* *Dactylotenium aegyptium* *Trianthema monogyna* *Amaranthus virdis* *Ipomea spp* *Cyperus rotundus* *Cyperus esculentus* *Setaria spp* *Parthenium hysterophorus* *Euphorbia hirta*	1200 gm (264+936)	2 Kg	500	282-306
Indaziflam 1.65% w/w (2%w/v) + Glyphosate Isopropylammonium 44.63% w/w (40%w/v) SC					
Tea	*Ageratum sp.* *Borreria sp.* *Eleusine indica*	50+1000 to 70 + 1400 g.a.i/ha	2500 to 3500 ml/ha	500 L	14 days
Imazethapyr 35% + Imazamox 35% WG					
Soybean	*Echinochloa Colonum,* *Dinebra Arabica,* *Digitaria sanguinalis,* *Brachiaria mutica* *Commelina benghalensis* *Euphorbia hirta*	70 g a.i/ha + MSO Adjuvant @ 2 ml/l of water	100 g MSO Aadjuvant @ 2ml/l of water	375-500	56
Groundnut	*Echinochloa Colonum,* *Digira arvensis,* *Commelina benghalensis* *Euphorbia hirta* *Amaranthus viridis* *Physalis minima*	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	*Echinochloa colonum,* *Euphorbia spp.,* *Digitaria arvensis,* *Amaranthus viridis.*	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	500	64
Red gram	*Euphorbia spp.,* *Amaranthus viridis.*	70 g a.i./ha + MSO adjuvant @ 2m/l of water	100 g/ha + MSO adjuvant @ 2m/l of water	375-500	125
Mesoulfuron 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,* *Fimbristlylis miliaceae,* *Eclipta alba,* *Ludwigia parviflora,* *Cyanotis axillaries,* *Monocoria vaginalis,* *Marsilea quadrifoliata,*	4gm	20 gm.	300	90
Metsulfuron Methyl 10% + Carfentrazone ethyl 40% DF					
Wheat	*Rumex dentatus* *Rumex spinosus* *Medicago denticulate* *Malva parviflora* *Lathyrus aphaca* *Chenopodium album* *Melilotus alba* *Melilotus indica* *Anagallis arvensis* *Solanum nigrum* *Vicia sativa* *Convolvulus arvensis*	25	50	300	100
Oxyflurofen 2.5% + Glyphosate (Isopropyl amime salt)41% SC(w/w)					
Tea	*Ageratrum Conyzoids* *Cyperous sp* *Borreriabispida* *Pospalumcon jugatum* *Digitaria ciliaris*	50+820	2000	500L/ha.	14
Pendimethalin 30%+ Imazethapyr 2% EC					
Soybean	*Echinocloa crusgalli* *Digera arvensis* *Commelina benghalensis,* *Amaranthus viridis* *Portulaca oleracea*	(750+50) to (900+60) gm	2.5-3.0 ltrs	500-600	90

Penoxsulam 0.97% w/w + Butachlor 38.8% w/w SE					
Transplanted Rice	*Echinochloa colonum, Echinochloa crusgalli, Cyperus iria, Cyperus difformis, Marsilia quadrifoliata, Alternanthera spp.*	820 g.a.i/ha	2000ml/ha	750	60
Penoxsulam 1.02 % + Cyhalofop-butyl 5.1% OD					
Rice (Direct seeded Rice)	*Echinochloa colona Echinochloa crusgalli Leptochloa chinesis Eleusine indica Alternanthera sessilis Caesulia axillaris Cyperus spp*	120-135	2000-2250	300-500	60
Rice (Transplanted Rice)	*Echinochloa colona Echinochloa crusgalli Leptochloa chinesis Caesulia axillaris Cyperus difformis Cyperus spp*	120-135	2000-2250	300-500	60
Pretilachlor 6% + pyrazosulfuron Ethyl 0.15%(H)					
Paddy	Grassy weeds, Broad Leave, Sedges	600+15	10	-	83
Pretilachlor 6.0% +Pyrazosulfuron Ethyl 0.15% GR					
Transplanted Paddy	*Echinochloa Colonum Echinochloa Crusagalli Ludwigia paviflora, Elipta alba, Leptochola chinensis, Monochoria vaginalis, Cyperus difformis, Cyperus iria, Fimbristylis miliaceae*	600	10	-	83
Pretilachlor 30.0% + Pyrazosulfuron Ethyl 0.75% WG					

Paddy (Direct seeded Rice)	*Echinochloa colona, Eleusine indica, Leptochloa chinensis, Abernanthe a sessllis, Parthenium hysterophrous, Cyprus iria Cyprus difformis, Fimbristylis miliacea*	15+600	2000	375	113
Propaquizafop 2.5% + Imazethapyer 3.75% w/w ME					
Soybean	<u>*Grassy weeds:*</u> *Dactyloctnium aegyptium Echinocloa colonum Eleusine indica Digitaria sanguinalis* <u>*BLW:*</u> *Commelina Benghalensis Euphorbia hirta Digera arvensis Amaranthus viridis*	50+75	2000	500	80
Propaquizafop 5% + Oxyfluorfen 12% w/w EC					
Onion	<u>Grassy weeds</u> *Digitaria sanguinalis, Dactyloctnium aegyptium, Echinocloa colona, Eleusine indica* <u>BLW:</u> *Chenopodium album, Digera arvensis Amaranthus viridis*	43.75 +105	875	500	7
Pyrithiobac Sodium 6% EC w/w+ Quizalofop-ethyl 4% EC w/w MEC					
Cotton	*Trianthema spp Digera spp Celosia argentia Dinebra retroflexa Digitaria marginata*	(60+40) to (75+50) g.a.i/ha	1.0-1.25 Ltr/ha	500	160
Sulfentrazone 28% + Clomazone 30% WP					

Soybean	*Commelina benghalinsis, Acalypha indica, Corchorus spp., Euphorbia spp., Parthenium hysterophorus, Echinochloa colonum, Brachiaria spp., Dinebra spp., Cyperus rotundus.*	350+375	1250	500	84
Sugarcane	*Amaranthus viridis, Trianthema spp., Digera arvensis, Physalis spp., Brachiaria spp., Cynodon dactylon, Echinochloa spp., Dactyloctenium aegtptium, Cyperus rotundus.*	700+750	2500	500	302
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
Sodium Aceflourofen 16.5% + Clodinafop Propargyl 8% EC					
Soybean	*Acalypha indica, aegyptium, Alternanthera v philoxeroides, Amaranthus spp., Celosia argentea,Cleome viscose,Commelina benghalinsis,Dactyloctanium, Digera arvensis, Digitaria sanguinalis,* Echinochloa spp., *Eleusine indica, Euphorbia spp., Parthenium spp., Phyllanthus niruri, Physalis minima, Stellaria media Trianthema monogyna*	80 + 165	1000	500	61
Triafamone 20% + Ethoxysulfuron l0% WG					

Rice Transplanted	*Echinochloa colona, Echinochloa crusgalli, Cyperus rotundus, Cyperus difformis, Fimbistylis miliaceae, Marsilea quadrifolia.*	44+22.5	225	300	83
Rice Direct Seeded	*Echinochloa colona, Cyperus rotundus, Digera arvensis, Commelina benghalinsis.*	44+22.5	225	300	83

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