

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE

LOK SABHA
UNSTARRED QUESTION NO.2918
TO BE ANSWERED ON THE 15TH MARCH, 2016

USE OF BANNED PESTICIDES

2918. SHRI SUMEDHANAND SARSWATI:

Will the Minister of AGRICULTURE AND FARMERS WELFARE एवं किसान कल्याण
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be pleased to state:

- (a) the names of the pesticides registered in India;
- (b) whether the Government has decided not to ban pesticides suspected to be carcinogenic despite the recommendation by the Parliamentary Standing Committee;
- (c) if so, the reasons therefor;
- (d) the names of the pesticides banned in India;
- (e) whether consultations have been made with other ministries before implementing the above decision; and
- (f) if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE

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(DR. SANJEEV KUMAR BALYAN)

(a): There are 261 technical pesticides registered under section 9(3) of the Insecticides Act, 1968. The list is at Annexure-I. In addition, the details of the formulations registered are at Annexure-II.

(b) & (c): The Government registers pesticides only after a detailed evaluation of safety and efficacy to human, animal and environmental health. Technical reviews are carried out from time to time and continued use of pesticides is permitted only if found safe. A technical review of 6 neo-nicotinoid class of pesticides which concluded in 2014, led to introduction of precautionary declarations on the labels of such pesticides. Report on a technical review of 66 pesticides banned, restricted, withdrawn in one or more countries is under consideration of the Government.

(d): The details are at Annexure –III.

(e) & (f): Inter Ministerial Consultations are held where necessary. Draft Orders are published for comments from stakeholders and interested parties before the final orders are issued.

ANNEXURE -I

Insecticides / Pesticides Registered under section 9(3) of the Insecticides Act, 1968 for use in the Country

	Name of the Pesticide
1.	2,4-Dichlorophenoxy Acetic Acid
2.	Acephate
3.	Acetamiprid
4.	Alachlor
5.	Allethrin
6.	Alphacypermethrin
7.	Alphanaphthyl Acetic Acid
8.	Aluminium Phosphide
9.	Ametroctradin
10.	<i>Ampelomyces quisqualis</i>
11.	Anilophos
12.	Atrazine
13.	Aureofungin
14.	Azadirachtin (Neem Products)
15.	Azimsulfuron
16.	Azoxystrobin
17.	<i>Bacillus sphaericus</i>
18.	<i>Bacillus thuringiensis</i> var. <i>galleriae</i>
19.	<i>Bacillus thuringiensis</i> var. <i>israelensis</i>
20.	<i>Bacillus thuringiensis</i> var. <i>kurstaki</i>
21.	Barium Carbonate
22.	Beauveria bassiana
23.	Bendiocarb
24.	Benfuracarb
25.	Benomyl
26.	Bensulfuron Methyl
27.	Beta Cyfluthrin
28.	Bifenazate
29.	Bifenthrin
30.	Bispyribac Sodium
31.	Bitertanol
32.	Bromadiolone
33.	Buprofezin
34.	Butachlor
35.	Captan
36.	Carbaryl
37.	Carbendazim
38.	Carbofuran
39.	Carbosulfan
40.	Carboxin
41.	Carfentrazone Ethyl
42.	Carfentrazone Ethyl+Chloropropionic acid
43.	Carpropamid
44.	Cartap Hydrochloride

45.	Chlorantraniliprole
46.	Chlorfenapyr
47.	Chlorfluazuron
48.	Chlorimuron ethyl
49.	Chlormequat Chloride (CCC)
50.	Chlorothalonil
51.	Chlorpropham
52.	Chlorpyrifos
53.	Chlorpyrifos Methyl
54.	Chlothianidin
55.	Chromafenozide
56.	Cinmethylen
57.	Clodinafop-propargyl
58.	Clodinafop-propargyl+Sodium acifluorfen
59.	Clomazone
60.	Copper Hydroxide
61.	Copper Oxychloride
62.	Copper Sulphate
63.	Coumachlor
64.	Coumatetralyl
65.	Cuprous Oxide
66.	Cyantraniliprole
67.	Cyazofamid
68.	Cyfluthrin
69.	Cyhalofop-butyl
70.	Cymoxanil
71.	Cypermethrin
72.	Cyphenothrin
73.	Dazomet
74.	Deltamethrin (Decamethrin)
75.	Diafenthiuron
76.	Diazinon
77.	Dichloro Diphenyl Trichloroethane (DDT)
78.	Dichloropropene and Dichloropropane mixture (DD mixture)
79.	Diclofop-Methyl
80.	Diclorvos (DDVP)
81.	Diclosulam
82.	Dicofol
83.	Difenoconazole
84.	Diflubenzuron
85.	Dimethoate
86.	Dimethomorph
87.	Dinocap
88.	Dinotefuron
89.	Dithianon
90.	Diuron
91.	Dodine
92.	D-trans Allethrin
93.	Edifenphos
94.	Emamectin Benzoate
95.	Endosulfan*
96.	Ethephon
97.	Ethion
98.	Ethiprole

99.	Ethofenprox (Etofenprox)
100.	Ethoxysulfuron
101.	Ethylene Dichloride and Carbon Tetrachloride mixture (EDCT Mixture 3:1)
102.	Etoxazole(FI)
103.	Famoxadone
104.	Fenamidone
105.	Fenarimol
106.	Fenazaquin
107.	Fenitrothion
108.	Fenobucarb (BPMC)
109.	Fenoxaprop-p-ethyl
110.	Fenpropathrin
111.	Fenpyroximate
112.	Fenthion
113.	Fenvalerate
114.	Fipronil
115.	Flonicamid
116.	Fluazifop-p-butyl
117.	Flubendiamide
118.	Fluchloralin
119.	Flufenacet
120.	Flufenoxuron
121.	Flufenzine
122.	Fluopicolide
123.	Flusilazole
124.	Fluvalinate
125.	Forchlorfenuron
126.	Fosetyl-Al
127.	Gibberellic Acid
128.	Glufosinate Ammonium
129.	Glyphosate
130.	Helosulfuron methyl
131.	Hexaconazole
132.	Hexazinone
133.	Hexythiazox
134.	Hydrogen Cyanamide
135.	Imazamox
136.	Imazethapyr
137.	Imidacloprid
138.	Imiprothrin
139.	Indoxacarb
140.	Iprobenfos (Kitazin)
141.	Iprodione
142.	Iprovalicarb
143.	Isoprothiolane
144.	Isoproturon
145.	Kasugamycin
146.	Kresoxim Methyl
147.	Lambdacyhalothrin
148.	Lime Sulphur
149.	Linuron
150.	Lufenuron
151.	Magnesium Phosphide Plates
152.	Malathion

153.	Mancozeb
154.	Mandipropamid
155.	Mepiquate Chloride
156.	Mesosulfuron Methyl + Iodosulfuron Methyl Sodium
157.	Metaflumizone
158.	Metalaxyl
159.	Metalaxyl-M
160.	Metaldehyde
161.	<i>Metarhizium anisopliae</i>
162.	Methabenzthiazuron
163.	Methomyl
164.	Methoxy Ethyl Mercury Chloride (MEMC)
165.	Methyl Bromide
166.	Methyl Chlorophenoxy Acetic Acid (MCPA)
167.	Methyl Parathion
168.	Metiram
169.	Metofluthrin
170.	Metolachlor
171.	Metribuzin
172.	Metsulfuron Methyl
173.	Milbemectin
174.	Monocrotophos
175.	Myclobutanil
176.	Novaluron
177.	Nuclear polyhydrosis virus of <i>Helicoverpa armigera</i>
178.	Nuclear polyhydrosis virus of <i>Spodoptera litura</i>
179.	Orthosulfamuron
180.	Oxadiargyl
181.	Oxadiazon
182.	Oxycarboxin
183.	Oxydemeton-Methyl
184.	Oxyfluorfen
185.	Paclobutrazol
186.	Paraquat dichloride
187.	Penconazole
188.	Pencycuron
189.	Pendimethalin
190.	Penoxsulam
191.	Permethrin
192.	Phenthoate
193.	Phorate
194.	Phosalone
195.	Phosphamidon
196.	Picoxystrobin
197.	Pinoxaden
198.	Prallethrin
199.	Pretilachlor
200.	Primiphos-methyl
201.	Profenophos
202.	Prohexadione Calcium
203.	Propanil
204.	Propaquizafop
205.	Propergite
206.	Propetamphos

207.	Propiconazole
208.	Propineb
209.	Propoxur
210.	<i>Pseudomonas fluorescens</i>
211.	Pymetrozin (FI)
212.	Pyrachlostrobin
213.	Pyraclostrobin+Epoxiconazole
214.	Pyrazosulfuron ethyl
215.	Pyrethrins (pyrethrum)
216.	Pyridalyl
217.	Pyriproxyfen
218.	Pyrithiobac sodium
219.	Quinalphos
220.	Quizalofop ethyl
221.	Quizalofop-P-tefuryl
222.	S-bioallethrin
223.	Sodium Cyanide
224.	Spinosad
225.	Spiromesifen
226.	Streptomycin + Tetracycline
227.	sulfosulfuron
228.	sulphur
229.	Tebuconazole
230.	Tembotrione
231.	Temephos
232.	Tetraconazole (FI)
233.	Thiacloprid
234.	Thifluzamide
235.	Thiobencarb (Benthiocarb)
236.	Thiodicarb
237.	Thiomethoxain
238.	Thiometon
239.	Thiopanate methyl+Pyraclostrobin
240.	Thiophanate-Methyl
241.	Thiram
242.	Tolfenpyrad
243.	Topramizone
244.	Transfluthrin
245.	Triacantanol
246.	Triadimefon
247.	Triallate
248.	Triasulfuron
249.	Triazophos
250.	<i>Trichoderma harzianum</i>
251.	<i>Trichoderma Viride</i>
252.	Trichlorofon
253.	Tricyclazole
254.	Tridemorph
255.	Trifloxistrobin
256.	Trifluralin
257.	Validamycin
258.	<i>Verticillium lecanii</i>
259.	Zinc Phosphide
260.	Zineb

Endosulfan*:-Endosulfan has been banned by the Supreme Court of India w.e.f. 13-05-2011 for production, use & sale, all over India, till further orders vide ad-Interim order in the Writ Petition (Civil) No. 213 of 2011.

ANNEXURE II**FORMULATIONS REGISTERED FOR USE IN THE COUNTRY UNDER THE INSECTICIDES ACT, 1968:**

S. No.	Name of the Pesticides	Formulation registered	No. of formulation
1.	2,4-Dichlorophenoxy Acetic Acid (2,4-D Sodium Amine and Ester Salt)	a) 2, 4-D Sodium Salt used as Tech a.i. 80% w/w min. b) 2,4-D Amine Salt 58% SL 22.5% SL c) 2,4-D Ethyl Ester 38% EC, 4.5% Gr., 20%WP,	1 2 3
2.	Acephate	75% SP, 95%SG	2
3.	Acetamiprid	20 SP	1
4.	Alachlor	50%EC, 10% Gr	2
5.	Allethrin	0.5% Coil, 4% Mat, 0.5% Aer., 3.6% L, 0.2% & 0.02% Coil	6
6.	Alphacypermethrin	10% EC, 5% WP, 0.5% Chalk, 10% SC, 0.1%RTU	5
7.	Alphanaphthyl Acetic Acid	4.5% Sol.	1
8.	Aluminium phosphide *(R)	56% Tab, 56% Powder,77.5% Gr., 6% Tab	4
9.	Amplomyces quisqualis	2.00%WP	1
10.	Anilofos	30% EC, 18% EC	2
11.	Atrazine	50% WP	1
12.	Aureofungin	46.15% SP	1
13.	Azadirachtin (neem products)	25%, 10%, 0.03% EC, 0.1% EC, 0.15% EC, 5% EC,0.3%EC, 15% extract concentrâtes, 1% EC, 0.1% Gr, 0.15%Gr	11
14.	Azimsulfuron	50% DF (F.I.)	1
15.	Azoxystrobin	23% SC (FI)	1
16.	Bacillus thuringiensis var. sphaericus	1.3% FC	1
17.	Bacillus thuringiensis var. galleriae	1.3% FC	1
18.	Bacillus thuringiensis var. israelensis	Liquid &WP formulations, 5% AS, 12% AS	2
19.	Bacillus thuringiensis var. kurstaki	5% WP, 2.5% As, 0.5% WP, 3.5% AS, WG	5
20.	Barium Carbonate	1% P	1
21.	Beauveria bassiana	1.15% WP, 1.0% WP,1.15%SC	3
22.	Bendiocarb	80% WP	1
23.	Benfuracarb	40%EC, 3.0% GR	2
24.	Beta cyfluthrin	2.45% SC	1
25.	Benomyl	50% WP	1
26.	Bensulfuron Methyl	60% DF(FI)	1
27.	Bifenazate	50% WP(FI)22.6% SC(FI)	2
28.	Bifenthrin	10% EC, 2.5%EC,23.4%,MUP(Imp), 8% SC(FI), 0.05% MC(11 Hrs.), 10% WP,0.05%MC(8 hrs)	7
29.	Bispyribac sodium	10% SC (FI), 10% w/v SC	2
30.	Bitertanol	25% WP	1
31.	Bromadiolone	0.25% CB, 0.005% RB & 0.005% RB cake	3
32.	Buprofezin	25% SC	1
33.	Butachlor	50% EC, 5% Gr., 50% EW,	3
34.	Captan	50% WP, 75% WP, 50% WDG	3
35.	Carbaryl	5% DP, 10% DP, 50% WP, 85% WP, 4% Gr., 40% LV, 42% Flow	7
36.	Carbendazim	25% DS, 50% WP, 46.27% SC	3
37.	Carbofuran	3% CG,	1
38.	Carbosulfan	25% DS, 25% EC, 6% Gr.	3
39.	Carboxin	75% WP	1
40.	Carfentrazone-ethyl	40% EC, 40% DF(FI) 53%MUP(FI)	3
41.	Carpropamid	27.8% SC	1
42.	Cartap Hydrochloride	4% Gr., 50% SP, 75%SG	3
43.	Chlopropham	50% HN	1
44.	Chlorantranilprole	18.5% SC, 0.4% Gr.	2
45.	Chlorfenapyr	10% SC (FI)	1
46.	Chlorfenuron	10%SC(FI)	1
47.	Chlorfluazuron	5% EC w/w, 5% w/v, 5.4% EC(FI)	3
48.	Chlorimuron ethyl	25% WP,	1
49.	Chlormequat Chloride	50% Sol.	1
50.	Chlorothalonil	75% WP	1

51.	Chlorpyrifos	20% EC, 10% Gr., 1.5% DP, 50% EC, 2% RTU	5
52.	Chlorpyrifos Methyl	40% EC	1
53.	Chromafenozide	80% WP	1
54.	Cinmethylen	10% EC	1
55.	Clodinafop-propargyl (Piroxofop-propinyl)	15% WP	1
56.	Clomazone	50% EC	1
57.	Clothianidin	50%WG(FI), 50% WG formulation	2
58.	Copper Hydroxide	77% WP, 53.8% DF(FI)	2
59.	Copper Oxychloride	50% WP, 40% Paste, 5% DP, 50 WG	4
60.	Copper Sulphate	Used as Tech98% equivalent to cooper content 25% w/w min., 2.62% SC	2
61.	Coumachlor	0.5% CB, 0.025% RB	2
62.	Coumatetralyl	0.75% TP, 0.037% Bait.	2
63.	Cuprous Oxide	4% DP	1
64.	Cyantranilprole	10.26% OD	1
65.	Cyazofamid	34.5% SC (FI)	1
66.	Cyfluthrin	10% WP, 5% EW,	2
67.	Cyhalofop-butyl	10% EC	1
68.	Cymoxonil	80% WP	1
69.	Cypermethrin	10% EC, 25% EC, 1% Chalk, 0.1% Aquous (HH), 0.25 DP, (3% Smoke Generator- to be used only through Pest Control Operators and not allowed to be used	6
70.	Cyphenothrin	5% EC, 0.15% in combination as Aer. , 7.2% VP	3
71.	Dazomet	Dazomet Technical (soil Sterilant GR) not permitted on tea	1
72.	Decamethrin (Deltamethrin)	2.5% Flow2.5% WP2.8% EC, 0.5% Chalk, 1.25% ULV, 25% Tab., 11% EC, 0.5% Tablet	8
73.	Diafenthiuron	50% WP	1
74.	Diazinon*R	25% Micro Encapsulation	1
75.	Dichloro Diphenyl Trichloroethane (DDT)*R	50% WP, 75% WP	2
76.	Dichloropropene and Dichloropropanes mixture (DD Mixture) *(R)	1:1	1
77.	Diclofop-methyl	28% EC	1
78.	Diclosulam	84% WDG(FI)	1
79.	Diclorvos (DDVP)	76% EC	1
80.	Dicofol	18.5% EC	1
81.	Difenoconazole	25% EC, 3% WS	2
82.	Diflubenzuron	25% WP,2%Tab FI&FIM,2%Gr,FI&FIM	3
83.	Dimethoate	30% EC	1
84.	Dimethomorph	50% WP	
85.	Dinotefuran	20% SG (F.I.)	1
86.	Dinocap	48% EC	1
87.	Dithianon	75% WP	1
88.	Diuron	80% WP	1
89.	Dodine	65% WP, 50% flow	2
90.	D-trans allethrin	2% Mat, 0.1% coil, 0.1% coil (12 hr.)	3
91.	Edifenphos	50% EC	1
92.	Emamectin Benzoate	5% SG (FI) & (FIM) , 1.9% EC	2
93.	Endosulfan*	2% DP, 4% DP, 35% EC, 4% Gr.	4
94.	Ethephon	39% SL, 10% Paste	2
95.	Ethion	50% EC	1
96.	Ethofenprox (Etofenprox)	10% EC	1
97.	Ethoxysulfuron	10% EC, 15%WG(FI)	2
98.	Ethylene Dichloride and Carbon Tetrachloride mixture (EDCT mixture 3: 1)	3:1	1
99.	Etoazole	10%SC(FI)	1
100.	Fenarimol	12% EC	1
101.	Fenazaquin	10 EC	1
102.	Fenitrothion*R	2% Spray, 20% OL (banned in agriculture use except for locust in scheduled dessert area and public health)	2
103.	Fenobucarb (BPMC)	50% EC	1
104.	Fenoxaprop-p-ethyl	10% EC, 9.3% EC,6.7%EC	3
105.	Fenpropathrin	10% EC, 30% EC	2
106.	Fenpyroximate	5% EC,	1
107.	Fenthion*R	2% Spray (banned in agriculture use except for locust in scheduled dessert area and public health)	1
108.	Fenvalerate	0.4% DP, 20%EC	2
109.	Fipronil	0.3% Gr., 5% SC, 0.05%Gel (Import)&FIM,80%WG (FI & FIM),	5

		2.92% EC	
110.	Flonicamide	50% WG	1
111.	Fluazifop-p-butyl	13.4% EC	1
112.	Flubendiamide	39.35%SC,20%WG	2
113.	Fluchloralin	45% EC	1
114.	Flufenacet	60% WP	1
115.	Flufenoxuron	10% DC	1
116.	Flumite	20% SC	1
117.	Flusilazole	40% EC	1
118.	Fluvalinate	25% EC	1
119.	Forchlorfenuron (CPPU)	0.1%, 0.12% EC (FI)	2
120.	Fosetyl-Al	80% WP	1
121.	Gibberellic Acid	Tech. P, 0.186% SP, 0.001% L	3
122.	Glufosinate Ammonium	13.5% SL	1
123.	Glyphosate	41% SL, 20.2% SL, 5%SL	3
124.	Glyphosate ammonium salt	71% SG	1
125.	Halosulfuron methyl	75% WG(FI)	1
126.	Hexaconazole	5% EC, 5% SC, 2% SC, 75% WG	4
127.	Hexythiazox	5.45% EC	1
128.	Hydrogen cyanamid	49% age, 50% SC	2
129.	Imazethapyr	10% SL, 70% WG (FI)	2
130.	Imidacloprid	17.8% SL, 70% WS, 48% FS, 30.5% SC, 2.5%Gel, 70%WG, 0.3% Gr	7
131.	Imiprothrin	50% MUP	1
132.	Indoxacarb	14.5% SC,15.8%EC	2
133.	Iprobenfos (Kitazin)	48% EC, 17% Gr.	2
134.	Iprodione	50% WP	1
135.	Isoprothiolane	40% EC	1
136.	Isoproturon	50% WP, 75% WP, 50% Flow	3
137.	Kasugamycin	3% SL	1
138.	Kresoxim-methyl	44.3%(500 g/l)SC	1
139.	Lambda-cyhalothrin	2.43%CS ,5% EC, 10% WP, 2.5% EC, 0.5% Chalk, 22.8%CS(FI), 4.9%CS	7
140.	Lime Sulphur	22% SC	1
141.	Linuron	50% WP	1
142.	Lufenuron	5.4% EC	1
143.	Magnesium phosphide Plates	56%Min. Plates (FI)	1
144.	Malathion	5% DP, 25% WP, 50% EC, 0 .25% Spray and 96% ULV, 2% Spray, 5% Spray	7
145.	Mancozeb	75% WP, 35% SC, 75%WG	3
146.	Mandipropamid	23.4% SC	1
147.	Mepiquat Chloride	5%AS, 50% TK	2
148.	Metaflumizone	22% SC (FI)	1
149.	Metalaxyl	35% WS, 40% WS	2
150.	Metalaxyl – M	31.8% ES	1
151.	Metaldehyde	2.5% DP	1
152.	Metarhizium Anisopliae	1.15 % WP	1
153.	Methabenzthiazuron	70% WP	1
154.	Methomyl	40% SP	1
155.	Methoxy ethyl mercury chloride *(R)	3% FS, 6% FS (completely banned except for seed treatment of Potato and sugarcane vide S.O. 681(E) dated 17 th July 2001)	2
156.	Methyl bromide *(R)	99% L, 98% L	2
157.	Methyl chlorophenoxy acetic acid	40% SL or 40% As	1
158.	Methyl Parathion *(R)	2% DP, 50% EC	2
159.	Metiram	70% WG	1
160.	Metofluthrin	5%EC, 0.005% Mosquito Coil	
161.	Metofluthrin	0.005% Mosquito coil, 5%EC	2
162.	Metolachlor	50% EC	1
163.	Metribuzin	70% WP	1
164.	Metsulfuron –methyl	20% WP, 20%WG(FI)	2
165.	Milbemectin	1%EC	1
166.	Monocrotophos*R	36% SL, 15% w/w SG	2
167.	Myclobutanil	15%SG,10%WP	2
168.	Novaluron	10% EC (FI), 8.8% SC, 10% EC	3
169.	NPV of Helicoverpa armigera	0.43% AS, 2.0% AS	2
170.	NPV of Spodopteralitura	0.5% AS	1
171.	Orthosulfamuron	50% WG	1
172.	Oxadiazyl	80% WP, 6% EC	2
173.	Oxadiazon	25% EC	1

174.	Oxycarboxin	20% EC	1
175.	Oxydemeton-methyl	25% EC	1
176.	Oxyfluorfen	23.5% EC, 0.35% Gr.	2
177.	Paclobutrazol	23% SC(FI), 23% SG	2
178.	Paraquat dichloride	24% SL	1
179.	Penconazole	10% EC	1
180.	Pencycuron	22.9% SC	1
181.	Pendimethalin	30% EC, 5% Gr.,38.7%CS(FI)	3
182.	Penoxsulam	21.7%SC(FI)	1
183.	Permethrin	25% EC, 5% SG., 2% EC, LLIN 2% (FI)	4
184.	Phenthoate	2% DP, 50% EC	2
185.	Phorate	10% CG	1
186.	Phosalone	4% DP, 35% EC	2
187.	Phosphamidon	40% SL,	1
188.	Picoxystrobin	22.52%SC(FI)	1
189.	Pinoxaden	5.1% EC	1
190.	Prallethrin	0.8% mat for 12 hours, 1% Mat, 0.8% L, 1.6% L, 0.5% mosquito coil, 0.04% Mosquito coil, 1.2% mat, 19% w/w VP, 0.6% mat, 2.4%LV	10
191.	Pretilachlor	50% EC, 30.7% w/w EC,37.0%EW	3
192.	Primiphos-methyl	25% WP, 50% EC, 1% Spray	3
193.	Profenophos	50% EC	1
194.	Prohexadione calcium	10% WG (FI)	1
195.	Propanil	35% EC	1
196.	Propaquizafop	10% EC(FI)	1
197.	Propergite	57% EC	1
198.	Propetamphos	20% EC, 1% Spray	2
199.	Propiconazole	25% EC	1
200.	Propineb	70% WP	1
201.	Propoxur	20% EC, 1% Aer., 2% Aer. 1% HH Spray, 2% Bait	5
202.	Pseudomonas flourosceus	0.5%WP,1.75%WP, 1%WP	3
203.	Pymetrozine	50%WG(FI)	1
204.	Pyrazosulfuron -ethyl	10% WP, 70% WDG(FI)	2
205.	Pyrethrins (Pyrethrum)	0.2% DP, 2.5% EC, 0.05% Spray, 0.2% PH, 2.0% EC	5
206.	Pyriproxifen	0.5% Gr(FI), 10%EC(FI)	2
207.	Pyriithiobac Sodium	10% EC	1
208.	Pyraclostrobin	20% WG (FI)	1
209.	Quinalphos	1.5% DP, 25% EC, 20% AF	3
210.	Quizalofop ethyl	10% EC, (FI), 5% EC (FI)	1
211.	Quizalofop-p-tefuryl	4% EC (FI)	1
212.	S-Bioallethrin	2.4% mat	1
213.	Sodium Cyanide *(R)	Used as Tech., 96% a.i. min	2
214.	Spinosad	45% SC, 2.5% SC	2
215.	Spiromesifen	22.9% SC	1
216.	Streptomycin + Tetracycline	90: 10 SP	1
217.	Sulfosulfuron	75% WG	1
218.	Sulphur	85% DP, 80% WP, 40% SC, 80% WG/WDG , 55.16 SC (800 gm / L)40%WP,52%SC	7
219.	Tebuconazole	2.5% DS, 2% DS, 25.9%EC, 25% WG, 5.36% FS, 5.4% FS	6
220.	Tembotrione	34.4% SC	1
221.	Temephos	50% EC, 1% Sand Granules	2
222.	Tetraconazole	3.8% EW (FI)	1
223.	Thiacloprid	21.7% SC	1
224.	Thifluzamide	24% SC	1
225.	Thiobencarb(Benthiocarb)	50% EC, 10% Gr.	2
226.	Thiodicarb	75% WP	1
227.	Thiomethoxam	25% WG, 70% WS, 30%FS	3
228.	Thiometon	25% EC	1
229.	Thiophanate-methyl	70% WP	1
230.	Thiram	80% WP, 40% FS,75%WS	3
231.	Tolfenpyrad	15%EC	1
232.	Topramizone	336 g/l SC(FI)	1
233.	Transfluthrin	0.88% Liquid Vaporiser, 0.03% Mos. Coil, 20%MV Gel(30 days mat tray), 1% FU, 1.2% LV, 1.6% LV	6
234.	Triadimefon	25% WP	1
235.	Triallate	50% EC	1
236.	Triasulfuron	20%WG	1
237.	Triazophos	40% EC, 20% EC	2

238.	Trichlorfon	5% DP, 50% EC, 5% Gr.	3
239.	Trichoderma viride	1% WP (CFU 2x10 ⁶ gm/min), 0.5% WP, 5%WP ,	2
240.	Tricoderma harzianum	0.5% WS, 2.0% WP	2
241.	Tricoderma viride	1.0% WP	1
242.	Tricontanol	0.05% EC, 0.1% EW, 0.05% GR	3
243.	Tricyclazole	75% WP, 70% WG	2
244.	Tridemorph	80% EC	1
245.	Trifluralin	48% EC	1
246.	Validamycin	3% L	1
247.	Verticillium lecanii	1.15% WP	1
248.	Zinc Phosphide	2% RB, 80% Powder, 1% Bait	2
249.	Zineb	75%WP,80% WP, 27% Colloidal Suspension	3
250.	Ziram	80% WP, 27% SC	2

***R: Restricted**

APPROVED FORMULATION OF COMBINATION PESTICIDES

A. INSECTICIDES	
1.	Acephate 25% + Fenvalerate 3% EC
2.	Acephate 50% + Imidacloprid 1.8% SP
3.	Acetamiprid 0.4% + Chlorpyrifos 20% EC
4.	Beta cyfluthrin 8.49% + Imidacloprid 19.81% OD
5.	Buprofezin 15%+Acephate 35%WP
6.	Carbaryl 4% + Gamma BHC 4% Gr.
7.	Chlorantraniliprole 9.3% + Lambda-cyhalothrin 4.6% ZC
8.	Chlorpyrifos 16% + Alphacypermethrin 1% EC
9.	Chlorpyrifos 50% + Cypermethrin 5% EC
10.	Cyfluthrin 0.025% + Tranfluthrin 0.04%
11.	Cypermethrin 10% +Indoxacarb 10% EC
12.	Cypermethrin 3% + Quinalphos 20% EC
13.	Deltamethrin 0.05% + Allethrin .04% L
14.	Deltamethrin 0.75% +Endosulfan* 29.75% EC
15.	Deltamethrin 1% + Triazophos 35% EC
16.	Diazinon 0.5% + Pyrethrum 0.1% ready to use house hold
17.	Diflubenzuron 20%+ Deltamethrin 2%SC
18.	Endosulfan* 35% + Cypermethrin 5% EC
19.	Ethion 40% + Cypermethrin 5% EC
20.	Ethiprole 40% + Imidacloprid 40% (80% WG)
21.	Fipronil 40% + Imidacloprid 40% WG
22.	Flubendiamide 4%+Buprofezin 20%SC
23.	Imiprothrin 0.05% + Cypermethrin 1.0% CL
24.	Imiprothrin 0.07% + Cypermethrin 0.20% Aerosol
25.	Imiprothrin 0.1% + Cyphenothrin 0.15%
26.	Indoxacarb 14.5% + Acetamiprid 7.7% SC
27.	Methyl bromide 98% + chlorpicrin 2%
28.	Novaluron 5.25% + Indoxacarb 4.5% SC
29.	Phosalone 24% + Cypermethrin 5% EC
30.	Phosphamidon 40% + Imidacloprid 2% SP
31.	Profenofos 40% + Cypermethrin 4% EC
32.	Propoxur 0.25% + Cyfluthrin 0.025% Aerosal
33.	Propoxur 0.5% + Cyfluthrin 0.015% Spray
34.	Propoxur 0.5% + Cyfluthrin 0.025% Spray,
35.	Pyriproxyfen 5% + Fenpropathrin 15% EC
36.	Thiamethoxam 12.6% + Lambda-cyhalothrin 9.5% ZC
B. FUNGICIDES	
1.	Ametoctradin 27% + Dimethomorph 20.27 %SC
2.	Captan 70%+Hexaconazole 5%WP
3.	Carbendazim 12% + Mancozeb 63% WP
4.	Carbendazim 25% + Mancozeb 50%WS
5.	Carbendazim 25% Flusilazole 12.5% SE
6.	Carboxin 17.5% + Thiram 17.5% FF
7.	Carboxin 37.5% + Thiram 37.5% DS
8.	Carfentrazone Ethyl 20% + Sulfosulfuron 25% WG

9.	Cymoxanil 8%+Mancozeb 64% WP
10.	Famoxadone 16.6% + Cymoxanil 22.1% SC
11.	Fenamidone 10% + Mancozeb 50% WDG(FI)
12.	Fenamidone 4.44% + Fosetyl-AI 66.66% WDG(FI)
13.	Fluocoplid 4.44% + Fosetyl-AI 66.66% WDG(FI)
14.	Hexaconazole 4% + Zineb 68% WP
15.	Improvalicarb 5.5% + Propineb 61.25% WP
16.	Iprodion 25% + Carbendazim 25% WP
17.	Metalaxyl -M 3.3% + Chlorothalonil 33.1% SC
18.	Metalaxyl -M 8% + Mancozeb 64% WP
19.	Metalaxyl-M 4% + Mancozeb 64% WP
20.	Metiram 55% + Pyraclostrobin 5% WG (FI)
21.	Propiconazole 10.7% + Tricyclazole 34.2% SE
22.	Propiconazole 13.9% + Difenoconazole 13.9% EC
23.	Pyroclostrobin 133g/l+ Epoxiconazole 50 g/l (w/v) SE(FI)
24.	Quizalofop ethyl 10% EC + Chlorimuron ethyl 25% WP + Surfactant (0.2) Twin pack
25.	Streptomycin + Tetracycline (90+10)
26.	Tebuconazole 50% + Trifloxystrobin 25% WG (FI)
27.	Thiophanate Methyl 450 g/L+Pyroclostrobin 50 g/L FS (FI)
28.	Tricyclazole 18% + Mancozeb 62% WP
B. HERBICIDES	
1.	Anilofos 24% + 2, 4-D 32% EC
2.	Bensulfuron methyl 0.6% + Pretilachlor 6% Gr
3.	Carfentrazone-ethyl 20% + sulfosulfuron 25% WG
4.	Clodinafop propargyl 9% + Metribuzin 20% WP
5.	Clodinafop-propargyl 15% + Metsulfuran methyl 1% WP
6.	Clodinafop-propargyl 16.5% + Sodium acifluorfen 8%WP
7.	Clomazone 20% + 2,4-diethyl ester 30% EC
8.	Fenoxaprop-p-ethyl 7.77%+ Metribuzin 13.6% EC
9.	Hexazinone 13.2% + Diuron 46.8% WP(FI)
10.	Imazamox 35% + Imazethapyr 35% WG(FI)
11.	Imazethapyr 2%+Pendimethalin 30%EC
12.	Mesosulfuron-methyl 3% + Idosulfuron-methyl sodium 0.6% WG (FI)
13.	Metfulfuron Methyl 10% + Chlorimuron Ethyl 10% WP
14.	Metribuzin 42% + Clodinafop propargyl 12% + WG
15.	Oxyfluorfen 2.5% + Isopropyl amine salt of Glyphosate 41% SC
16.	Pretilachlor 6% + Pyrazosulfuron ethyl 0.15% GR
17.	Sodium Aceflourofen 16.5% + Clodinafop-propargyl 8% EC (FI)
18.	Sulfosulfuron 75% + Metsulfuron 5% WDG
C. INSECTICIDE + FUNGICIDE	
1.	Flubendiamide 3.5% + Hexaconazole 5% WG

ANNEXURE -III**LIST OF PESTICIDES WHICH ARE BANNED, REFUSED REGISTRATION AND RESTRICTED IN USE****I. PESTICIDES / FORMULATIONS BANNED IN INDIA**

	Pesticides Banned for manufacture, import and use .
	1. Aldicarb (vide S.O. 682 (E) dated 17 th July 2001)
	2. Aldrin
	3. Benzene Hexachloride
	4. Calcium Cyanide
	5. Chlorbenzilate (vide S.O. 682 (E) dated 17 th July 2001)
	6. Chlordane
	7. Chlorofenvinphos
	8. Copper Acetoarsenite
	9. Dibromochloropropane (DBCP) (vide S.O. 569 (E) dated 25 th July 1989)
	10. Dieldrin (vide S.O. 682 (E) dated 17 th July 2001)
	11. Endrin
	12. Ethyl Mercury Chloride
	13. Ethyl Parathion
A.	14. Ethylene Dibromide (EDB) (vide S.O. 682 (E) dated 17 th July 2001)
	15. Heptachlor
	16. Lindane (Gamma-HCH)
	17. Maleic Hydrazide (vide S.O. 682 (E) dated 17 th July 2001)
	18. Menazon
	19. Metoxuron
	20. Nitrofen
	21. Paraquat Dimethyl Sulphate
	22. Pentachloro Nitrobenzene (PCNB) (vide S.O. 569 (E) dated 25 th July 1989)
	23. Pentachlorophenol
	24. Phenyl Mercury Acetate
	25. Sodium Methane Arsonate
	26. Tetradifon
	27. Toxaphene(Camphechlor) (vide S.O. 569 (E) dated 25 th July 1989)
	28. Trichloro acetic acid (TCA) (vide S.O. 682 (E) dated 17 th July 2001)
	Pesticide formulations banned for import, manufacture and use
	1. Carbofuron 50% SP (vide S.O. 678 (E) dated 17 th July 2001)
B.	2. Methomyl 12.5% L
	3. Methomyl 24% formulation
	4. Phosphamidon 85% SL
C.	Pesticide / Pesticide formulations banned for use but continued to manufacture for export
	1. Captafol 80% Powder (vide S.O. 679 (E) dated 17 th July 2001)
	2. Nicotin Sulfate
D.	Pesticides Withdrawn (Withdrawal may become inoperative as soon as required complete data as per the guidelines is generated and submitted by the Pesticides Industry to the Government and accepted by the

Registration Committee. (S.O 915(E) dated 15th Jun,2006)	
1.	Dalapon
2.	Ferbam
3.	Formothion
4.	Nickel Chloride
5.	Paradichlorobenzene (PDCB)
6.	Simazine
7.	Sirmate (S.O. 2485 (E) dated 24 th September 2014)
8.	Warfarin (vide S.O. 915 (E) dated 15 th June 2006)

II. PESTICIDES REFUSED REGISTRATION

S.No.	Name of Pesticides
1.	2,4, 5-T
2.	Ammonium Sulphamate
3.	Azinphos Ethyl
4.	Azinphos Methyl
5.	Binapacryl
6.	Calcium Arsenate
7.	Carbophenothion
8.	Chinomethionate (Morestan)
9.	Dicrotophos
10.	EPN
11.	Fentin Acetate
12.	Fentin Hydroxide
13.	Lead Arsenate
14.	Leptophos (Phosvel)
15.	Mephosfolan
16.	Mevinphos (Phosdrin)
17.	Thiodemeton / Disulfoton
18.	Vamidothion

III. PESTICIDES RESTRICTED FOR USE IN THE COUNTRY

S.No.	Name of Pesticides	Details of Restrictions
1.	Aluminium Phosphide	The Pest Control Operations with Aluminium Phosphide may be undertaken only by Govt./Govt. undertakings / Govt. Organizations / pest control operators under the strict supervision of Govt. Experts or experts whose expertise is approved by the Plant Protection Advisor to Govt. of India except ¹ Aluminium Phosphide 15 % 12 g tablet and ² Aluminum Phosphide 6 % tablet.

		<p><i>[RC decision circular F No. 14-11(2)-CIR-II (Vol. II) dated 21-09-1984 and G.S.R. 371(E) dated 20th may 1999]. ¹Decision of 282nd RC held on 02-11-2007 and, ²Decision of 326th RC held on 15-02-2012.</i></p> <p>The production, marketing and use of Aluminium Phosphide tube packs with a capacity of 10 and 20 tablets of 3 g each of Aluminium Phosphide are banned completely. (S.O.677 (E) dated 17thJuly, 2001)</p>
2.	Captafol	<p>The use of Captafol as foliar spray is banned. Captafol shall be used only as seed dresser. (S.O.569 (E) dated 25thJuly, 1989)</p> <p>The manufacture of Captafol 80 % powder for dry seed treatment (DS) is banned for use in the country except manufacture for export. (S.O.679 (E) dated 17thJuly, 2001)</p>
3.	Cypermethrin	<p>Cypermethrin 3 % Smoke Generator, is to be used only through Pest Control Operators and not allowed to be used by the General Public. [Order of Hon,ble High Court of Delhi in WP(C) 10052 of 2009 dated 14-07-2009 and LPA-429/2009 dated 08-09-2009]</p>
4.	Dazomet	<p>The use of Dazomet is not permitted on Tea. (S.O.3006 (E) dated 31st Dec, 2008)</p>
5.	Diazinon	<p>Diazinon is banned for use in agriculture except for household use. (S.O.45 (E) dated 08th Jan, 2008)</p>
6.	Dichloro Diphenyl Trichloroethane (DDT)	<p>The use of DDT for the domestic Public Health Programme is restricted up to 10,000 Metric Tonnes per annum, except in case of any major outbreak of epidemic. M/s Hindustan Insecticides Ltd., the sole manufacturer of DDT in the country may manufacture DDT for export to other countries for use in vector control for public health purpose. The export of DDT to Parties and State non-Parties shall be strictly in accordance with the paragraph 2(b) article 3 of the Stockholm Convention on Persistent Organic Pollutants (POPs). (S.O.295 (E) dated 8th March, 2006)</p> <p>Use of DDT in Agriculture is withdrawn. In very special circumstances warranting the use of DDT for plant protection work, the state or central Govt. may purchase it directly from M/s Hindustan Insecticides Ltd. to be used under expert Governmental supervision. (S.O.378 (E) dated 26thMay, 1989)</p>
7.	Fenitrothion	<p>The use of Fenitrothion is banned in Agriculture except for locust control in scheduled desert area and public health. (S.O.706 (E) dated 03rdMay, 2007)</p>
8.	Fenthion	<p>The use of Fenthion is banned in Agriculture except for locust control, household and public health. (S.O.46 (E) dated 08th Jan, 2008)</p>
9.	Methoxy Ethyl Mercuric Chloride (MEMC)	<p>The use of MEMC is banned completely except for seed treatment of potato and sugarcane. (S.O.681 (E) dated 17thJuly, 2001)</p>
10.	Methyl Bromide	<p>Methyl Bromide may be used only by Govt./Govt.</p>

		undertakings/Govt. Organizations / Pest control operators under the strict supervision of Govt. Experts or Experts whose expertise is approved by the Plant Protection Advisor to Govt. of India. [G.S.R.371 (E) dated 20 th May, 1999 and earlier RC decision]
11.	Methyl Parathion	Methyl Parathion 50 % EC and 2% DP formulations are banned for use on fruits and vegetables. (S.O.680 (E) dated 17 th July, 2001) The use of Methyl Parathion is permitted only on those crops approved by the Registration Committee where honeybees are not acting as a pollinators. (S.O.658 (E) dated 04 th Sep., 1992.)
12.	Monocrotophos	Monocrotophos is banned for use on vegetables. (S.O.1482 (E) dated 10 th Oct, 2005)
13.	Sodium Cyanide	The use of Sodium Cyanide shall be restricted for Fumigation of Cotton bales under expert supervision approved by the Plant Protection Advisor to Govt. of India. (S.O.569(E) dated 25 th July, 1989)
