

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

LOK SABHA
UNSTARRED QUESTION NO. 2730
ANSWERED ON 19TH December, 2023

USE OF PESTICIDES

2730. SHRI MANSUKHBHAI DHANJIBHAI VASAVA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:-

- (a) Whether excessive use of agricultural pesticides and fertilizers in many states of the country is having an adverse effect on the fertility of the soil, if so, the details thereof;
- (b) Whether about 75% of the cultivable land in the county is adversely affected due to excessive use of chemical fertilizers and pesticides, which also contain high levels of toxic elements;
- (c) If so, the details thereof, State-wise; and
- (d) The corrective steps taken by the Government for safe and judicious use of crop saving chemicals and green chemicals?

ANSWER

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI ARJUN MUNDA)

(a) to (c): The Registration Committee (RC), constituted under section 5 of the Insecticides Act, 1968 (the Act) while registering the pesticides for use in the country evaluates their safety and efficacy based on the field trials conducted at State Agriculture Universities/ICAR institutes and lab studies conducted at NABL /ISO:17025/ and GLP accredited laboratories. Based on the studies, Registration Committee approves the details of doses, crops, precautionary measures, antidotes etc on Label and Leaflets. The registered pesticides if used as per Label and Leaflets do not pose any harm to human beings, animals, environment and living organisms other than pests.

Further, there is no harmful effect of fertilizers on soil fertility, if applied in a balanced and judicious manner. Government is recommending soil test based balanced and integrated nutrient management through conjunctive use of both inorganic and organic sources of plant nutrients to reduce use of chemical fertilizers. Split application, use of slow releasing fertilizers including neem coated urea and growing leguminous crops, use of Bio-fertiliser and Organic Fertiliser as alternate source of nutrients are also advocated.

(d): Ministry of Agriculture and Farmers Welfare through its Krishi Vigyan Kendras (KVKs), ICAR and 36 Central Integrated Pest Management Centers (CIPMCs) located in 28 States and 2 UTs, etc conduct various training programmes such as Farmers Field Schools (Annexure-I), two/five days HRD programmes (Annexure-II), Kisan Goshthis, IPM Exhibitions and Seed Treatment Campaigns (Annexure-III), where awareness is created amongst farmers, pesticide dealers/State agriculture functionaries on use of bio pesticides, bio control agents and botanical formulations as an alternative to chemical pesticides and judicious use of chemical pesticides as last resort in accordance to the dose and label claim instructions as approved by RC. Moreover, CIPMC's bio-control laboratories produce various bio-pesticides and bio-control agents and release them in field for management of various pests and pathogens. Further, Government of India has taken various steps to promote the use of bio pesticides like simplified guidelines for the registration of bio pesticides, grant of provisional registrations under Section 9(3B) of the Act along with the permission for commercialization during the provisional registration. ICAR has developed improved and efficient strains of bio-fertilizers specific to different crops and soil types.

Furthermore, Government of India is also implementing various schemes in order to promote the use of organic fertilizers by the farmers like

- i) Market Development Assistance (MDA) to Compressed Bio Gas Plants for sale of Fermented Organic Manure (FOM)/Liquid Fermented Organic Manure (LFOM) & Phosphate Rich Organic Manure (PROM).
- ii) PM Programme for Restoration, Awareness Generation, Nourishment and Amelioration of Mother-Earth (PM-PRANAM)
- iii) Parampragat Krishi Vikas Yojana (PKVY) and Mission Organic Value Chain development in North East Region (MOVCDNER)

Annexure-I

Details of Farmers Field School conducted by CIPMC from 2019-20 to 2023-24

S. No.	States	CIPMCs	2019-20		2020-21		2021-22		2022-23		2023-24		Total	
			No. of FFS	No. of farmers trained	No. of FFS	No. of farmers trained	No. of FFS	No. of farmers trained	No. of FFS	No. of farmers trained	No. of FFS	No. of farmers trained	No. of FFS	No. of farmers attended
1	Haryana	Faridabad	21	630	16	480	14	490	11	385	5	175	67	2160
2	Himachal Pradesh	Solan	23	690	10	300	8	280	7	245	3	105	51	1620
3	J&K	Jammu	23	690	7	210	6	210	6	210	2	70	44	1390
4		Srinagar	8	240	0	0	1	35	1	35	1	35	11	345
5	Punjab	Jalandhar	24	720	12	360	10	350	7	245	3	105	56	1780
6	Rajasthan	Sriganganagar	20	600	11	330	10	350	7	245	2	70	50	1595
7		Jaipur	28	840	6	180	8	280	7	245	3	105	52	1650
8	Uttar Pradesh	Lucknow	40	1200	21	630	19	665	12	420	5	175	97	3090
9		Gorakhpur	24	720	12	360	8	280	6	210	3	105	53	1675
10		Agra	30	900	9	270	8	280	6	210	2	70	55	1730
11	Uttarakhand	Dehradun	32	960	10	300	8	280	6	210	3	105	59	1855
12	West Bengal	Kolkata	40	1200	16	480	14	490	11	385	5	175	86	2730
13	Odisha	Bhubaneswar	12	360	9	270	8	280	7	245	3	105	39	1260
14	Bihar	Patna	27	810	12	360	8	280	7	245	3	105	57	1800
15	Jharkhand	Ranchi	12	360	9	270	5	175	5	175	3	105	34	1085
16	Andaman and Nicobar	Port Blair	15	450	2	60	3	105	4	140	2	70	26	825
17	Assam	Guwahati	35	1050	16	480	15	525	11	385	5	175	82	2615
18	Arunachal Pradesh	Itanagar	12	360	4	120	4	140	4	140	2	70	26	830
19	Meghalaya	Shillong	20	600	6	180	4	140	4	140	2	70	36	1130
20	Manipur	Imphal	20	600	9	270	4	140	0	0	1	35	34	1045
21	Mizoram	Aizwal	12	360	6	180	4	140	4	140	2	70	28	890
22	Nagaland	Dimapur	12	360	6	180	4	140	4	140	2	70	28	890
23	Tripura	Agartala	12	360	6	180	4	140	4	140	2	70	28	890
24	Sikkim	Gangtok	8	240	6	180	4	140	4	140	2	70	24	770
25	Karnataka	Bangalore	35	1050	21	630	16	560	11	385	5	175	88	2800
26	Telangana	Hyderabad	20	600	12	360	8	280	7	245	3	105	50	1590
27	Andhra Pradesh	Vijayawada	20	600	12	360	8	280	7	245	3	105	50	1590
28	Kerala	Ernakulum	24	720	12	360	7	245	7	245	3	105	53	1675
29	Tamil Nadu	Trichy	16	480	10	300	8	280	7	245	3	105	44	1410
30	Maharashtra	Nagpur	24	720	20	600	16	560	11	385	5	175	76	2440
31		Nasik	24	720	8	240	8	280	7	245	3	105	50	1590
32	Madhya Pradesh	Indore	12	360	12	360	8	280	7	245	3	105	42	1350
33		Morena					4	140	4	140	2	70	10	350
34	Gujarat	Vadodara	11	330	12	360	5	175	6	210	2	70	36	1145

35	Chhattisgarh	Raipur	8	240	8	240	8	280	7	245	2	105	33	1110
36	Goa	Madgaon	8	240	3	90	5	175	4	140	3	70	23	715
Total			712	21360	351	10530	282	9870	230	8050	103	3605	1678	53415

Annexure-II**Details of 2 Days HRD Programmes conducted by CIPMC from 2019-20 to 2023-24**

S. No.	States	CIPMCs	2019-20		2020-21		2021-22		2022-23		2023-2024		Total	
			No. of 2 Days HRD	No. of Farmers Trained	No. of 2 Days HRD	No. of Farmers Trained	No. of 2 Days HRD	No. of Farmers Trained	No. of 2 Days HRD	No. of Farmers Trained	No. of 2 Days HRD	No. of Farmers Trained	No. of 2 Days HRD	No. of Farmers Trained
1	Haryana	Faridabad	4	160	0	0	7	400	6	302	2	119	19	981
2	Himachal Pradesh	Solan	4	160	1	40	2	131	2	104	1	60	10	495
3	J&K	Jammu	3	106	0	0	2	90	2	100	1	55	8	351
4		Srinagar	1	40	1	40	1	53	1	42	1	55	5	230
5	Punjab	Jalandhar	4	140	1	40	6	423	4	238	1	53	16	894
6	Rajasthan	Sriganganagar	4	160	0	0	1	65	3	145	1	51	9	421
7		Jaipur	4	160	1	40	1	114	4	190	2	168	12	672
8	Uttar Pradesh	Lucknow	4	241	0	0	5	264	7	303	2	112	18	920
9		Gorakhpur	4	170	1	40	2	90	3	184	1	69	11	553
10		Agra	2	160	1	40	1	55	2	102	1	55	7	412
11	Uttarakhand	Dehradun	4	160	1	40	2	112	3	137	1	51	11	500
12	West Bengal	Kolkata	4	160	1	40	4	167	6	252	2	112	17	731
13	Odisha	Bhubaneswar	3	120	1	40	3	122	3	174	2	106	12	562
14	Bihar	Patna	3	160	1	40	3	92	4	211	2	118	13	621
15	Jharkhand	Ranchi	4	105	1	40	1	58	3	134	1	48	10	385
16	Andaman and Nicobar	Port Blair	1	43	2	80	2	56	2	121	1	40	8	340
17	Assam	Guwahati	3	165	0	0	4	162	6	316	2	105	15	748
18	Arunachal Pradesh	Itanagar	1	0	0	0	1	40	2	102	1	50	5	192
19	Meghalaya	Shillong	2	118	0	0	2	90	2	80	1	49	7	337
20	Manipur	Imphal	4	120	1	40	1	40	2	100	1	53	9	353
21	Mizoram	Aizwal	1	53	1	40	1	62	2	121	1	60	6	336
22	Nagaland	Dimapur	2	58	1	40	1	56	2	108	1	45	7	307
23	Tripura	Agartala	1	49	1	40	1	50	2	85	1	40	6	264
24	Sikkim	Gangtok	2	80	1	40	1	60	2	120	1	51	7	351
25	Karnataka	Bangalore	4	160	0	0	4	226	6	320	2	123	16	829
26	Telangana	Hyderabad	4	160	1	40	3	193	3	222	1	63	12	678
27	Andhra Pradesh	Vijayawada	4	160	1	40	2	167	3	222	2	113	12	702
28	Kerala	Ernakulum	4	109	1	40	1	54	2	110	1	50	9	363
29	Tamil Nadu	Trichy	2	80	1	40	2	90	3	134	2	109	10	453
30	Maharashtra	Nagpur	2	160	0	0	4	301	6	524	2	118	14	1103

25	Karnataka	Bengaluru	-	-	1	40	-	-	1	40	-	-	2	80
26	Telangana	Hyderabad	1	40	-	-	-	-	-	-	-	-	1	40
27	Andhra Pradesh	Vijayawada	-	--	-	-	-	-	-	-	-	-	0	0
28	Kerala	Ernakulum	-	-	-	-	-	-	-	-	1	40	1	40
29	Tamil Nadu	Trichy	1	40	-	-	-	-	-	-	-	-	1	40
30	Maharashtra	Nagpur	1	40	1	40	0	0	1	46	-	-	3	126
31		Nasik	-	-	-	-	-	-	-	-	1	40	1	40
32	Madhya Pradesh	Indore	-	-	-	-	-	-	-	-	-	-	0	0
33		Morena	-	-	-	-	-	-	-	-	-	-	-	-
34	Gujarat	Vadodara	-	-	-	-	-	-	-	-	-	-	-	-
35	Goa	Madgaon	-	-	-	-	-	-	-	-	-	-	-	-
36	Chhattisgarh	Raipur	-	-	-	-	-	-	-	-	-	-	-	-
Total			11	440	5	200	0	0	6	246	5	200	22	886

Annexure-III

Details of Seed Treatment Campaign Programmes conducted by CIPMC from 2019-20 to 2023-24

Sr. No.	States	CIPMCs	2019-20		2020-21		2021-22		2022-23		2023-24		Total	
			No. of seed treatment campaigns	No of farmers participated	No. of seed treatment campaigns	No of farmers participated	No. of seed treatment campaigns	No of farmers participated	No. of seed treatment campaigns	No of farmers participated	No. of seed treatment campaigns	No of farmers participated	No. of seed treatment campaigns	No of farmers participated
1	Haryana	Faridabad	28	985	17	600	20	903	11	385	2	68	78	2941
2	Himachal Pradesh	Solan	0	0	0	0	2	49	2	42	2	29	6	120
3	J&K	Jammu	0	0	0	0	2	80	0	0	0	0	2	80
4		Srinagar	0	0	0	0	1	43	0	0	0	0	1	43
5	Punjab	Jalandhar	28	1084	13	535	20	1459	19	1315	7	153	87	4546
6	Rajasthan	Sriganganagar	0	0	0	0	5	167	5	220	4	132	14	519
7		Jaipur*	0	0	0	0	11	325	7	182	8	1066	26	1573
8	Uttar Pradesh	Lucknow	40	1144	21	895	26	780	12	300	10	286	109	3405
9		Gorakhpur	59	1688	38	1155	28	943	25	803	6	152	156	4741
10		Agra*	20	700	12	375	18	322	17	298	6	56	73	1751
11	Uttarakhand	Dehradun	30	1050	10	300	10	319	6	172	2	45	58	1886
12	West Bengal	Kolkata	41	1435	17	600	17	610	18	665	8	117	101	3427
13	Odisha	Bhubaneswar	0	1820	0	665	2	1050	0	315	0	0	2	3850
14	Bihar	Patna	26	910	12	420	33	889	21	450	14	267	106	2936
15	Jharkhand	Ranchi	14	492	18	430	21	398	22	393	22	336	97	2049
16	Andaman and Nicobar	Port Blair	1	30	0	0	3	90	2	60	0	0	6	180
17	Assam	Guwahati	36	1260	16	560	17	573	11	385	5	104	85	2882
18	Arunachal Pradesh	Itanagar									0	0	0	0
19	Meghalaya	Shillong	22	770	6	210	4	140	4	140	1	50	37	1310
20	Manipur	Imphal	24	468	9	173	5	173	2	100	1	25	41	939
21	Mizoram	Aizwal	0	0	0	0	3	59	1	27	0	0	4	86
22	Nagaland	Dimapur	0	0	0	0	1	35	4	70	2	70	7	175
23	Tripura	Agartala	10	350	7	250	4	140	4	140	1	21	26	901
24	Sikkim	Gangtok	0	0	0	0	1	30	0	0	1	30	2	60
25	Karnataka	Bangalore	37	1220	21	848	16	560	11	385	1	40	86	3053
26	Telangana	Hyderabad	20	600	12	360	11	329	7	210	0	0	50	1499
27	Andhra Pradesh	Vijayawada*	25	830	13	406	10	379	10	439	1	31	59	2085
28	Kerala	Ernakulum	0	0	4	120	8	150	2	62	3	59	17	391
29	Tamil Nadu	Trichy	16	480	10	300	13	429	12	410	3	93	54	1712

30	Maharashtra	Nagpur	14	490	3	105	36	2098	18	1740	2	51	73	4484
31		Nasik *	20	653	8	251	10	314	7	210	3	112	48	1540
32	Madhya Pradesh	Indore	12	460	12	470	12	398	7	266	3	83	46	1677
33		Morena									2	17	2	17
34	Gujarat	Vadodara	9	300	10	310	3	100	4	120	1	26	27	856
35	Goa	Madgaon	0	0	0	0	2	58	0	0	0	0	2	58
36	Chhattisgarh	Raipur	12	368	8	284	8	283	7	141	3	64	38	1140
Total			544	19587	297	10622	383	14675	278	10445	124	3583	1626	58912
