

Results of Presence of POPs

Vegetable Samples

Meerut District

S.No	Vegetable	α -BHC ($\mu\text{g}/\text{kg}$)	β -BHC ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptachlor ($\mu\text{g}/\text{kg}$)	Dieldrin ($\mu\text{g}/\text{kg}$)	Endosulfan I ($\mu\text{g}/\text{kg}$)	4'4'DDE ($\mu\text{g}/\text{kg}$)	Aldrin ($\mu\text{g}/\text{kg}$)
1.	Lady Finger 1		25.44						
2.	Lady Finger 2	5.9	15.2			11.9	20.1		
3.	Lady Finger 3		9.6						
4.	Brinjal 1		10.40						45.00
5.	Brinjal 2			6.1	20.8	15.4			
6.	Brinjal 3				10.4	4.15	8.2		
7.	Potato		9.6	9.8					
8.	Tomato				24.0			23.9	
9.	Tori		11.00						
10.	Ghiya			11.8	5.9				
11.	Radish		6.4		6.02				
12.	Cucumber		8.3						

Muzaffarnagar District

S.No	Vegetable	Fipronil ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptachlor Epoxide ($\mu\text{g}/\text{kg}$)	Dieldrin ($\mu\text{g}/\text{kg}$)	Endosulfan I ($\mu\text{g}/\text{kg}$)
1.	Radish				2.6	
2.	Potato 1			1.6		
3.	Potato 2		4.8			
4.	Cauliflower	3.6	3.21	5.4		
5.	Brinjal	1.3	7.4			3.9
6.	Cabbage		5.32	3.3		

Ghaziabad District

S.No	Vegetable	α -BHC ($\mu\text{g}/\text{kg}$)	β -BHC ($\mu\text{g}/\text{kg}$)	γ - BHC ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptachlor ($\mu\text{g}/\text{kg}$)	Heptachlor Epoxide ($\mu\text{g}/\text{kg}$)	Endosulfan I ($\mu\text{g}/\text{kg}$)	Aldrin ($\mu\text{g}/\text{kg}$)
1.	Potato 1				0.62	3.18			0.39
2.	Potato 2					3.65			
3.	Tomato			11.18	3.42				
4.	Brinjal 1		4.57		3.27		4.1		
5.	Brinjal 2		3.54		8.5				
6.	Cauliflower 1				7.84	2.2			
7.	Cauliflower 2	8.3	2.51		3.73				11.5

Gautambudh Nagar District

S.No	Vegetable	α -BHC ($\mu\text{g}/\text{kg}$)	β -BHC ($\mu\text{g}/\text{kg}$)	γ - BHC ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptach lor ($\mu\text{g}/\text{kg}$)	Heptachl or Epoxide ($\mu\text{g}/\text{kg}$)	Aldrin ($\mu\text{g}/\text{kg}$)	
1.	Cauliflower from Mr. Rajendra Saini in village Chilera (Sector 44)							0.8	
2.	Brinjal from Mr. Gangasaran Yadav in village Jhandapur					1.2	1.1	2.1	1.4
3.	Onion from Mr. Gagasaran Yadav in village Jhandapur	0.92					0.2		
4.	Brinjal from Mr. Kallu Sardar in Barola farm		0.37	0.13	1.5			1.2	
5.	Cauliflower from Mr. Amar Singh in village Bhangel								
6.	Cabbage from Mr. Sohanlal in village Aakupur	1.0					0.7	0.8	
7.	Cabbage from Mr. Balluram in village Kulesra		0.85						
8.	Radish from Mr. Kalluram in village Kulesra	0.2					1.1	0.3	0.94
9.	Potato from Surajpur Sabji Mandi					0.45		0.7	1.05

Soil Samples

Meerut District

S.No	Soil	Fipronil (µg/kg)	Endrin Aldehyde (µg/kg)	Heptachlor (µg/kg)	Heptachlor Epoxide (µg/kg)	Dieldrin (µg/kg)	Endosulfan I (µg/kg)	4'4'DDE (µg/kg)
1.	Sugarcane Field 1	30.6			26.32			
2.	Sugarcane Field 2	60.81						
3.	Tomato Field	233.7	78.82			5.73	5.21	465.7
4.	Sugarcane Field 3	145.5		6.78	8.68			
5.	Sugarcane Field 4	175.76		11.1	22.33			
6.	Cucumber Field 5	41.33						
7.	Maize Field	142.7						
8.	Pumpkin Field	35.48						
9.	Sugarcane Field 6	28.47						

Muzaffarnagar District

S.No	Soil	α-BHC (µg/kg)	β-BHC (µg/kg)	gama-BHC (µg/kg)	δ -BHC (µg/kg)	Heptachlor (µg/kg)	Heptachlor Epoxide (µg/kg)	Endosulfan I (µg/kg)	Aldrin (µg/kg)	Fipronil (µg/kg)
1.	Sludge of Kali River			12.65	15.68		3.5			15.3
2.	Cauliflower Field 1				15.7				23.5	17.9
3.	Sugarcane Field 1				18.1	45.6		123.9		45.3
4.	Cauliflower Field 2				73.9					22.56
5.	Sugarcane Field 2		25.4		2.14					
6.	Sugarcane Field 3	27.8			14.2		18.7			75.68
7.	Sugarcane Field 4			46.4		9.3	34.3		24.0	225.9
8.	Sugarcane Field 5								51.7	
9.	Sugarcane Field 6				15.7				203.5	178.8

Ghaziabad District

S.No	Soil	α -BHC ($\mu\text{g}/\text{kg}$)	β -BHC ($\mu\text{g}/\text{kg}$)	γ -BHC ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptachl or ($\mu\text{g}/\text{kg}$)	Heptachlor Epoxide ($\mu\text{g}/\text{kg}$)	Aldrin ($\mu\text{g}/\text{kg}$)	Fipronil ($\mu\text{g}/\text{kg}$)
1.	Wheat Field				2.3				
2.	Potato Field				11.9				
3.	Cabbage Field 1		12.7		10.7	14.53			
4.	Cabbage Field 2				5.6	19.5			16.5
5.	Tomato Field 1				8.7	5.2			
6.	Potato Field 1				18.9	28.8			28.1
7.	Sludge Bone Mill drain	152.2		46.2	35.6	43.2	51.8	224.1	16.6
8.	Rose Field	14.1				38.76	3.6	3.7	
9.	Cauliflower Field 1	16.7			5.4	20.5	14.5		
10.	Cauliflower Field 2				12.5	12.9			
11.	Tomato Field 2				5.9	30.9			

Gautambudh Nagar District

S.No	Soil	α -BHC ($\mu\text{g}/\text{kg}$)	β -BHC ($\mu\text{g}/\text{kg}$)	γ -BHC ($\mu\text{g}/\text{kg}$)	δ -BHC ($\mu\text{g}/\text{kg}$)	Heptachl or ($\mu\text{g}/\text{kg}$)	Heptachl or Epoxide ($\mu\text{g}/\text{kg}$)	Endrin ($\mu\text{g}/\text{kg}$)	Endosulfa n I ($\mu\text{g}/\text{kg}$)	Aldrin ($\mu\text{g}/\text{kg}$)
1.	Wheat field of Mr. Jeetu s/o Mule Pradhan in village Luksar			1.86			1.1			
2.	Wheat field of Mr. Lakkhi Sharma in village Jhatta (Express Highway)			2.43						
3.	Culiflower field of Mr. Rajendra Saini	1.75	1.25		15.6	3.58				

	Handpump (Jalalpur 100 feet)								
3.	India Marka Handpump (Mawana 100 feet)							0.04	
4.	Pond (Parikshitgarh)				0.1				
5.	Handpump (Poothi 35 feet)				0.08				
6.	Kali river (Jalalpur)	546.75	63.82	60.44	153.46	16.10		19.61	

Muzaffarnagar District

S.No	Water	α -BHC ($\mu\text{g/l}$)	β -BHC ($\mu\text{g/l}$)	γ -BHC ($\mu\text{g/l}$)	δ -BHC ($\mu\text{g/l}$)	Heptachl or ($\mu\text{g/l}$)	Heptachl or Epoxide ($\mu\text{g/l}$)	Endosul fan I ($\mu\text{g/l}$)	Aldrin ($\mu\text{g/l}$)	Fipron il ($\mu\text{g/l}$)
1.	Kali River (Shamli bus stand)	2.3			0.31	1.4	2.6	0.5	2.07	5.4
2.	Tubwell (Rashid 100 feet)					0.21			1.19	
3.	Handpump (near Kali river 40 feet)		1.06	0.15		0.10	0.19	0.31	0.12	
4.	Hindon River	0.23	0.31			1.6				1.52
5.	Tubwell (Budhana 60 feet)		0.2						0.059	
6.	Handpump (Janshat 60 feet)	0.28	0.005				0.29			

Ghaziabad District

S.No	Water	α -BHC ($\mu\text{g/l}$)	β -BHC ($\mu\text{g/l}$)	γ -BHC ($\mu\text{g/l}$)	δ -BHC ($\mu\text{g/l}$)	Heptachl or ($\mu\text{g/l}$)	Heptachl or Epoxide ($\mu\text{g/l}$)	Endosul fan II ($\mu\text{g/l}$)	Aldrin ($\mu\text{g/l}$)	Fipron il ($\mu\text{g/l}$)
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1.	Kali River (Hapur)	6.02	1.54		2.8				3.36
2.	Bone mill waste water (Hapur)			0.36	2.3			1.22	
3.	Waste water drain (Brijnathpur)		6.31	1.69	2.45		0.79	0.88	3.74
4.	Handpump (Hapur 35 feet)					0.07		0.3	0.2
5.	Handpump (Bisnoli 70 feet)					0.8	0.43		
6.	Handpump (Ghaziabad 40 feet)					0.74			

Gautambudh Nagar District

S.No	Water	α -BHC ($\mu\text{g/l}$)	β -BHC ($\mu\text{g/l}$)	γ -BHC ($\mu\text{g/l}$)	δ -BHC ($\mu\text{g/l}$)	Heptachl or ($\mu\text{g/l}$)	Heptachl or Epoxide ($\mu\text{g/l}$)	Fipronil ($\mu\text{g/l}$)	Aldrin ($\mu\text{g/l}$)
1.	Handpump from Vishwakarma Automobiles, Kasna village, 40-45 feet deep		0.02		0.56	0.15			
2.	Tubewell from Mr. Gangasaran Yadav field in village Chilera, 80-100 feet deep	0.3	0.78		0.23	0.32			
3.	Drain waste water near Madanpur village		0.89	0.35		0.56	1.2	1.78	
4.	Handpump near NOIDA Beraj setor 14, 150-200 feet deep		0.35			0.86			
5.	Handpump from Barola village farm, 50 feet deep					0.3			1.2
6.	Tubewell from Mr. Amar Singh field in village Bhangel, 120 feet deep	0.5	0.53			0.3			

7.	Tubwell from Mr. Udaychand field in village Aakupur, 80-100 feet deep				0.6	0.2			
8.	India Mark II handpump near Surajpur Police station in village Kulesra, 100 feet deep	0.35				0.96	0.23		
9.	Handpump near Hindon river in Kulesra village] 30-35 feet deep		1.6		0.23	1.36	0.52		