

Laboratory	Pesticide Toxicology Division, National Institute of Occupational Health (ICMR, Govt. of India), Meghani Nagar, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	13.01.2015
Certificate Number	T-2370	Valid Until	12.01.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. WATER				
1.	Drinking and River Water	Organochlorine Pesticides		
		α BHC	NIOH/SOP/C/23 (Issue No. 01, Issue Date :05.06.2011) EPA Method-680	0.1 μ g/L to 1000 μ g/L
		β BHC		0.1 μ g/L to 1000 μ g/L
		γ BHC		0.1 μ g/L to 1000 μ g/L
		δ BHC		0.1 μ g/L to 1000 μ g/L
		α Endosulfan		0.1 μ g/L to 1000 μ g/L
		β Endosulfan		0.1 μ g/L to 1000 μ g/L
		Endosulfan Sulfate		0.1 μ g/L to 1000 μ g/L
		pp' DDE		0.1 μ g/L to 1000 μ g/L
		pp' DDD		0.1 μ g/L to 1000 μ g/L
		pp' DDT		0.1 μ g/L to 1000 μ g/L
		Aldrin		0.1 μ g/L to 1000 μ g/L
		Heptachlor		0.1 μ g/L to 1000 μ g/L
		Organophosphorous Pesticides		
		Chlorpyrifos	NIOH/SOP/C/24 (Issue No.01, Issue Date:05.06.2011) EPA Method-680	0.5 μ g/L to 1000 μ g/L
		Acephate		0.5 μ g/L to 1000 μ g/L

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking and River Water	Dichlorvos	NIOH/SOP/C/24 (Issue No.01, Issue Date:05.06.2011)	0.5 µg/L to 1000 µg/L
		Dimethoate	EPA Method-680	0.5 µg/L to 1000 µg/L
		Dimethoate		0.5 µg/L to 1000 µg/L
		Ethion		0.5 µg/L to 1000 µg/L
		Malathion		0.5 µg/L to 1000 µg/L
		Methamidophos		0.5 µg/L to 1000 µg/L
		Monocrotophos		0.5 µg/L to 1000 µg/L
		Methyl Parathion		0.5 µg/L to 1000 µg/L
		Phorate		0.5 µg/L to 1000 µg/L
	Organophosphorus Pesticides			
	Phosphamidon		NIOH/SOP/C/24 (Issue No.01, Issue Date :05/06/2011)	0.5 µg/L to 1000 µg/L
	Quinalfos		EPA Method-680	
	Triazophos			
	Profenofos			

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	Drinking and River Water	Synthetic Pyrethroids		
		α - Cypermethrin	In house Method:	0.5 μ g/L to 5000 μ g/L
		Deltamethrin	NIOH/SOP/C/25	0.5 μ g/L to 5000 μ g/L
		Fenpropathrin	(Issue No.01 & Issue Date: 05/06/2011)	0.5 μ g/L to 5000 μ g/L
		Fenvalerate	EPA Method-680	0.5 μ g/L to 5000 μ g/L
		λ - Cyhalothrin		0.5 μ g/L to 5000 μ g/L
		Cyfluthrin		0.5 μ g/L to 5000 μ g/L
		Pendimethalin		0.5 μ g/L to 5000 μ g/L
		Herbicides		
		Alachlor	NIOH/SOP/C/25	0.5 μ g/L to 5000 μ g/L
	Butachlor	(Issue No. 01 & Issue Date : 05/06/2011)		
	Fluchloralin	EPA Method-680		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking and River Water	Polychlorinated Biphenyls		
		2,4'-Dichlorobiphenyl (PCB # 8)	NIOH/SOP/C/26 (Issue No. 01 & Issue Date : 05/06/2011)	0.1 µg/L to 1000 µg/L
		2,2',4-Trichlorobiphenyl (PCB # 17)	EPA Method-680	0.1 µg/L to 1000 µg/L
		2,2',5- Trichlorobiphenyl (PCB # 18)		0.1 µg/L to 1000 µg/L
		2,4,4'- Trichlorobiphenyl (PCB # 28)		0.1 µg/L to 1000 µg/L
		2,4',5- Trichlorobiphenyl (PCB # 31)		0.1 µg/L to 1000 µg/L
		2',3,4- Trichlorobiphenyl (PCB # 33)		0.1 µg/L to 1000 µg/L
		3,4,4'- Trichlorobiphenyl (PCB # 37)		0.1 µg/L to 1000 µg/L
		2,2', 3,5'- Tetrachlorobiphenyl (PCB # 44)		0.1 µg/L to 1000 µg/L
		2,2', 3,6'- Tetrachlorobiphenyl (PCB # 46)		0.1 µg/L to 1000 µg/L
		2,2', 4,5'- Tetrachlorobiphenyl (PCB # 49)		0.1 µg/L to 1000 µg/L

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	Drinking and River Water	2,3', 4,4'- Tetrachlorobiphenyl (PCB # 66)	NIOH/SOP/C/26 (Issue No. 01 & Issue Date : 05/06/2011) EPA Method-680	0.1 µg/L to 1000 µg/L
		2,3',4',5- Tetrachlorobiphenyl (PCB # 70)		0.1 µg/L to 1000 µg/L
		2,4,4',5- Tetrachlorobiphenyl (PCB # 74)		0.1 µg/L to 1000 µg/L
		3,3', 4,4'- Tetrachlorobiphenyl (PCB # 77)		0.1 µg/L to 1000 µg/L
		2,2', 3,4, 5'- Pentachlorobiphenyl (PCB # 87)		0.1 µg/L to 1000 µg/L
		2,2', 4, 4',5- Pentachlorobiphenyl (PCB # 99)		0.1 µg/L to 1000 µg/L
		2,2', 4, 5,5'- Pentachlorobiphenyl (PCB # 101)		0.1 µg/L to 1000 µg/L
		2,3,3', 4', 6- Pentachlorobiphenyl (PCB # 110)		0.1 µg/L to 1000 µg/L
		2,3,4, 4', 5- Pentachlorobiphenyl (PCB # 114)		0.1 µg/L to 1000 µg/L
	2,3',4, 4', 5- Pentachlorobiphenyl (PCB # 118)	0.1 µg/L to 1000 µg/L		

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	Drinking and River Water	2, 2', 3,3', 4, 6'-Hexachlorobiphenyl (PCB # 132)	NIOH/SOP/C/26 (Issue No. 01 & Issue Date : 05/06/2011) EPA Method-680	0.1 µg/L to 1000 µg/L
		2, 2', 3,4,4', 5'-Hexachlorobiphenyl (PCB # 138)		0.1 µg/L to 1000 µg/L
		2, 2', 3, 4,5, 6'-Hexachlorobiphenyl (PCB # 143)		0.1 µg/L to 1000 µg/L
		2, 2', 3,4', 5', 6'-Hexachlorobiphenyl (PCB # 149)		0.1 µg/L to 1000 µg/L
		2, 2', 4,4', 5, 5'-Hexachlorobiphenyl (PCB # 153)		0.1 µg/L to 1000 µg/L
		2, 3,3', 4,4', 6'-Hexachlorobiphenyl (PCB # 158)		0.1 µg/L to 1000 µg/L
		2, 3, 4,4', 5,6 – Hexachlorobiphenyl (PCB # 166)		0.1 µg/L to 1000 µg/L
		2,3',4,4',5,5' - Hexachlorobiphenyl (PCB # 167)		0.1 µg/L to 1000 µg/L
		3, 3', 4,4', 5, 5'-Hexachlorobiphenyl (PCB # 169)		0.1 µg/L to 1000 µg/L

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	Drinking and River Water	2, 2', 3,3', 4,4', 5-Heptachlorobiphenyl (PCB # 170)	NIOH/SOP/C/26 (Issue No. 01 & Issue Date : 05/06/2011) EPA Method-680	0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 4', 5, 6-Heptachlorobiphenyl (PCB # 177)		0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 5,6, 6'-Heptachlorobiphenyl (PCB # 179)		0.1 µg/L to 1000 µg/L
		2, 2', 3, 4,4', 5',6-Heptachlorobiphenyl (PCB # 183)		0.1 µg/L to 1000 µg/L
		2, 2', 3, 4', 5,5', 6-Heptachlorobiphenyl (PCB # 187)		0.1 µg/L to 1000 µg/L
		2, 3,3', 4,4', 5, 5'-Heptachlorobiphenyl (PCB # 189)		0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 4,4', 5, 5'-Octachlorobiphenyl (PCB # 194)		0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 4,4', 5, 6-Octachlorobiphenyl (PCB # 195)		0.1 µg/L to 1000 µg/L
		2, 3,3', 4,4', 5, 5', 6-Octachlorobiphenyl (PCB # 205)		0.1 µg/L to 1000 µg/L

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	Drinking and River Water	2, 2', 3,3', 4,4', 5, 5',6-Nonachlorobiphenyl (PCB # 206)	NIOH/SOP/C/26 (Issue No. 01 & Issue Date : 05/06/2011) EPA Method-680	0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 4, 5, 5', 6,6'-Nonachlorobiphenyl (PCB # 208)		0.1 µg/L to 1000 µg/L
		2, 2', 3,3', 4, 4', 5, 5', 6,6'-Decachlorobiphenyl (PCB # 209)		0.1 µg/L to 1000 µg/L
II.	fruits and vegetables	Organochlorine Pesticides	AOAC (19 th Edition, 2012) NIOH/SOP/C/20 (Issue No. 01 & Issue Date : 05/06/2011)	
		α BHC		10 µg/kg to 1000 µg/kg
		β BHC		10 µg/kg to 1000 µg/kg
		γ BHC		10 µg/kg to 1000 µg/kg
		δ BHC		10 µg/kg to 1000 µg/kg
		Heptachlor		10 µg/kg to 1000 µg/kg
		α Endosulfan		10 µg/kg to 1000 µg/kg
		β Endosulfan		10 µg/kg to 1000 µg/kg
		Endosulfan Sulfate		10 µg/kg to 1000 µg/kg
		pp' DDE		10 µg/kg to 1000 µg/kg
		pp' DDD		10 µg/kg to 1000 µg/kg
		pp'DDT		10 µg/kg to 1000 µg/kg
		Aldrin		10 µg/kg to 1000 µg/kg

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	Fruits and Vegetables	Organophosphorous Pesticides		
		Chlorpyrifos	AOAC (19 th Edition, 2012) NIOH/SOP/C/21	50 µg/kg to 1500 µg/kg
		Acephate	(Issue No. 01 & Issue Date : 05/06/2011)	50 µg/kg to 1500 µg/kg
		Dichlorvos	AOAC (19 th Edition, 2012) NIOH/SOP/C/21	50 µg/kg to 1500 µg/kg
		Dimethoate	(Issue No. 01 & Issue Date : 05/06/2011)	50 µg/kg to 1500 µg/kg
		Ethion		50 µg/kg to 1500 µg/kg
		Malathion		50 µg/kg to 1500 µg/kg
		Methamidophos		50 µg/kg to 1500 µg/kg
		Monocrotophos		50 µg/kg to 1500 µg/kg
		Methyl Parathion		50 µg/kg to 1500 µg/kg
		Phorate		50 µg/kg to 1500 µg/kg
		Organophosphorous Pesticides		
		Phosphamidon	AOAC (19 th Edition, 2012) NIOH/SOP/C/21	50 µg/kg to 1500µg/kg
		Quinalfos	(Issue No. 01 & Issue Date : 05/06/2011)	50 µg/kg to 1500µg/kg
		Triazophos		50 µg/kg to 1500µg/kg
		Profenophos		50 µg/kg to 1500µg/kg

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	Fruits and Vegetables	Synthetic Pyrethroids		
		α - Cypermethrin	AOAC (19 th Edition, 2012) NIOH/SOP/C/22	100 μ g/kg to 1500 μ g/kg
		Bifenthrin	(Issue No. 01 & Issue Date : 05/06/2011)	100 μ g/kg to 1500 μ g/kg
		Deltamethrin		100 μ g/kg to 1500 μ g/kg
		Fenpropathrin	AOAC (19 th Edition, 2012) NIOH/SOP/C/22	100 μ g/kg to 1500 μ g/kg
		Fenvalerate	(Issue No. 01 & Issue Date : 05/06/2011)	100 μ g/kg to 1500 μ g/kg
		λ - Cyhalothrin		100 μ g/kg to 1500 μ g/kg
		Pendimethalin		100 μ g/kg to 1500 μ g/kg
		Herbicides		
		Alachlor	AOAC (19 th Edition) 2012 NIOH/SOP/C/22	100 μ g/kg to 1500 μ g/kg
		Butachlor	(Issue No. 01 & Issue Date : 05/06/2011)	100 μ g/kg to 1500 μ g/kg
		Fluchloralin		100 μ g/kg to 1500 μ g/kg
		Cyfluthrin		100 μ g/kg to 1500 μ g/kg
III.	Blood/Serum	Organochlorine Pesticides		
		α BHC	NIOH/SOP/C/30	10 μ g/L to 1000 μ g/L
		β BHC	(Issue No. 01 & Issue Date : 05/06/2011)	10 μ g/L to 1000 μ g/L
		γ BHC		10 μ g/L to 1000 μ g/L
		δ BHC		10 μ g/L to 1000 μ g/L

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	Blood/Serum	α Endosulfan	NIOH/SOP/C/30 (Issue No. 01 & Issue Date : 05/06/2011)	10 μ g/L to 1000 μ g/L
		β Endosulfan		10 μ g/L to 1000 μ g/L
		Endosulfan Sulfate		10 μ g/L to 1000 μ g/L
		pp' DDE		10 μ g/L to 1000 μ g/L
		pp' DDD		10 μ g/L to 1000 μ g/L
		pp' DDT		10 μ g/L to 1000 μ g/L

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