

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	04.07.2014
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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.	Waste Water / Sea Water / Raw & Treated Liquid Effluents/Raw Treated Sewage Water	Temperature	IS 3025 (Part 9): 1984 (RA 2006)	0.1 °C to 100 °C
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Qualitative (Agreeable/Disagreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	0.1 NTU to 400 NTU
		pH Value	IS 3025 (Part 11): 1983 (RA 2006)	1.0 to 14
		Electrical Conductivity	APHA (22 nd Edition) 2510B	1 µmhos/cm to 50000 µmhos/cm
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2006)	2 mg/l to 50000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	2 mg/l to 50000 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2009)	2 mg/l to 50000 mg/l
		Fixed and Volatile Solids	IS 3025 (Part 18): 1984 (RA 2006)	2 mg/l to 50000 mg/l
		Sludge Volume Index	APHA (22 nd Edition) 2710D	2 mg/l to 50000 mg/l
		Chlorides as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009)	0.5 mg/l to 10000 mg/l
		Sulphates as SO ₄ ²⁻	APHA (22 nd Edition) 4500. SO ₄ .E	1 mg/l to 10000 mg/l

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		P.Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009)	1 mg/l to 10000 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009)	1 mg/l to 10000 mg/l
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C	1 mg/l to 5000 mg/l
		Calcium Hardness as CaCO ₃	APHA (22 nd Edition) 3500 Ca.B	1 mg/l to 3000 mg/l
		Magnesium Hardness as CaCO ₃	APHA (22 nd Edition) 3500 Mg.B	1 mg/l to 2000 mg/l
		Calcium as Ca	APHA (22 nd Edition) 3500 Ca.B	0.4 mg/l to 2000 mg/l
		Magnesium as Mg	APHA (22 nd Edition) 3500 Mg.B	1 mg/l to 2000 mg/l
		Total Iron as Fe	APHA (22 nd Edition) 3500 Fe.B	0.01 mg/l to 20 mg/l
		Dissolved Iron	APHA (22 nd Edition) 3500 Fe.B	0.01 mg/l to 20 mg/l
		Total Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2009)	1 mg/l to 20000 mg/l
		Reactive Silica as SiO ₂	APHA (22 nd Edition) 4500- SiO ₂ .D	0.02 mg/l to 200 mg/l
		Carbonate Hardness as CaCO ₃	APHA (22 nd Edition) 2340A	Qualitative (by Calculation)
		Non - Carbonate Hardness as CaCO ₃	APHA (22 nd Edition) 2340A	Qualitative (by Calculation)
		Free Carbon Dioxide as CO ₂	APHA (22 nd Edition) 4500 CO ₂ -C	1 mg/l to 100 mg/l

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		Dissolved Oxygen as O ₂	IS 3025 (Part 38): 1989 (RA 2009)	0.2 mg/l to 25 mg/l
		Chemical Oxygen Demand (Cod)	IS 3025 (Part 58): 2006/ APHA (22 nd Edition) 5220 B	4 mg/l to 50000 mg/l
		Biological Oxygen Demand (Bod)	APHA (22 nd Edition) 5210 B (5days @ 20°C)/ IS 3025 (Part 44): 1993 (RA 2009) (3 Days @ 27°C)	2 mg/l to 20000 mg/l
		Free Residual Chlorine as Cl ₂	APHA (22 nd Edition) 4500 Cl.B	0.2 mg/l to 100 mg/l
		Nitrate Nitrogen as NO ₃	IS 3025 (Part 34): 1988 (RA 2009)	0.2 mg/l to 100 mg/l
		Nitrite Nitrogen as NO ₂ – N	IS 3025 (Part 34): 1988 (RA 2009)	0.2 mg/l to 1000 mg/l
		Total Phosphorus as PO ₄	IS 3025 (Part 31): 1988 (RA 2009)	0.05 mg/l to 50 mg/l
		Dissolved Phosphorus as PO ₄	IS 3025 (Part 31): 1988 (RA 2009)	0.05 mg/l to 50 mg/l
		Density	APHA (22 nd Edition) 2520 C / IS 3025 (Part 12): 1983 (RA 2006)	1.0 g/ml to 10 g/ml
		Hexavalent Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009)	0.03 mg/l to 20 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009)	0.05 mg/l to 5 mg/l

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		Manganese as Mn	APHA (22 nd Edition) 3500 Mn	0.05 mg/l to 20 mg/l
		Oil & Grease	APHA (22 nd Edition) 5520 B/ IS 3025 (Part 39): 1991 (RA 2009)	4 mg/l to 1000 mg/l
		Sulphite as SO ₃	APHA (22 nd Edition) 4500 SO ₃ 2-B	2 mg/l to 50 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009)	0.03 mg/l to 50 mg/l
		Total Kjeldahl Nitrogen & Organic Nitrogen	IS 3025 (Part 34): 1988 (RA 2009) APHA (22 nd Edition) 4500 N– B, C	1 mg/l to 50 mg/l
		Free Ammonia as NH ₃	IS 3025 (Part 34): 1988 (RA 2009)	0.5 mg/l to 10 mg/l
		Ammonical Nitrogen as NH ₃ N	IS 3025 (Part 34): 1988 (RA 2009)/ APHA (22 nd Edition) 4500 NH ₃ B C	1 mg/l to 500 mg/l
		Fluoride as F	APHA (22 nd Edition) 4500 F B, D/ IS 3025 (Part 60): 2008	0.1 mg/l to 10.0 mg/l
		Boron as B	APHA (22 nd Edition) 4500 B/B/ IS 13428: 2005 (RA 2009) Amd. 3 Annexure H	0.1 mg/l to 10 mg/l

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		Phenolic Compound As C ₆ H ₅ OH	APHA (22 nd Edition) 5530 B, D/ IS 3025 (Part 43): 1992 (RA 2009) Amd. 2	0.01 mg/l to 3.0 mg/l
		Sulphide as S	APHA (22 nd Edition) 4500 S ²⁻ F/ IS 3025 (Part 29): 1986 (RA 2009)	0.5 mg/l to 100 mg/l
		Residual Sodium Carbonate	IS 11624: 1986 (RA 2009)	Qualitative (by Calculation)
		Particle Size of Suspended Solids	IS 6339: 1971 (RA 2011)	Qualitative (Pass/Fail)
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 2009)/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 5 mg/l
		Total Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009)/ APHA (22 nd Edition) 3111 B	0.05 mg/l to 5 mg/l
		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009) Amd. 2/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 10 mg/l
		Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2009) Amd. 1/ APHA (22 nd Edition) 4500 CN-C, E: 2009	0.01 mg/l to 5 mg/l

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		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3111 B: 2009	0.02 mg/l to 25 mg/l
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 2009) / APHA (22 nd Edition) 3114 C	0.01 mg/l to 10 mg/l
		Arsenic as As	IS 3025 (Part 37): 1988 (RA 2009)/ APHA (22 nd Edition) 3114 B	0.02 mg/l to 10 mg/l
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3112 B	0.001 mg/l to 10 mg/l
		Vanadium as V	APHA (22 nd Edition) 3500 V /B	0.05 mg/l to 10 mg/l
		Antimony as Sb	APHA (22 nd Edition) 3111 B IS 15303: 2003 (RA 2009)	0.005 mg/l to 10 mg/l
		Silver as Ag	APHA (22 nd Edition) 3111 B	0.01 mg/l to 10 mg/l
		Appearance	APHA (22 nd Edition) 2110	Physical appearance of Sample color
		Colour	APHA (22 nd Edition) 2120 B/ IS 3025 (Part 4): 1983 (RA 2006) Amd. 1	1 Hazen to 100 Hazen
2.	Drinking Water	Colour	APHA (22 nd Edition) 2120 B/ IS 3025 (Part 4): 1983 (RA 2006) Amd. 1	1 Hazen to 100 Hazen

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		Appearance	APHA (22 nd Edition) 2110	Physical appearance of Sample color
		Taste	IS 3025 (Part 8): 1984 (RA 2006)/ APHA (22 nd Edition) 2160 B	Qualitative (Agreeable / Disagreeable)
		Temperature	IS 3025 (Part 9): 1984 (RA 2006)	0.1 °C to 100 °C
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Qualitative (Agreeable/ Dis agreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	0.1 NTU to 400 NTU
		pH Value	IS 3025 (Part 11): 1983 (RA 2006)	1 to 14
		Electrical Conductivity	APHA (22 nd Edition) 2510 B	1 µmhos/cm to 50,000 µmhos/cm
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2006)	2 mg/l to 50000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	2 mg/l to 50000 mg/l
		Chlorides as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009)	0.5 mg/l to 10000 mg/l
		Sulphates as SO ₄ ²⁻	APHA (22 nd Edition) 4500 SO ₄ E	1 mg/l to 10000 mg/l

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		P-Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009)	1 mg/l to 5000 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009)	1 mg/l to 5000 mg/l
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C/ 3-37	1 mg/l to 5000 mg/l
		Calcium Hardness as CaCO ₃	APHA (22 nd Edition) 3500 Ca B	1 mg/l to 3000 mg/l
		Magnesium Hardness as CaCO ₃	APHA (22 nd Edition) 3500 Mg B	1 mg/l to 2000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009)	0.4 mg/l to 2000 mg/l
		Magnesium as Mg	APHA (22 nd Edition) 3500 Mg B	1 mg/l to 2000 mg/l
		Total Iron as Fe	APHA (22 nd Edition) 3500 Fe B	0.01 mg/l to 20 mg/l
		Dissolved Iron as Fe	APHA (22 nd Edition) 3500 Fe B	0.01 mg/l to 20 mg/l
		Total Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2009)	1 mg/l to 20000 mg/l
		Reactive Silica as SiO ₂	APHA (22 nd Edition) 4500-SiO ₂ D	0.02 mg/l to 100 mg/l
		Carbonate Hardness as CaCO ₃	APHA (22 nd Edition) 2340A	Qualitative (by Calculation)
		Non Carbonate Hardness as CaCO ₃	APHA (22 nd Edition) 2340A	Qualitative (by Calculation)
		Free Carbon Di Oxide as CO ₂	APHA (22 nd Edition) 4500 CO ₂ - C	1 mg/l to 100 mg/l

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		Free Residual Chlorine as Cl ₂	APHA (22 nd Edition) 4500 Cl.B	0.1 mg/l to 100 mg/l
		Nitrate Nitrogen as NO ₃	IS 3025 (Part 34): 1988 (RA 2009)	0.2 mg/l to 100 mg/l
		Hexavalent Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009)	0.02 mg/l to 20 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3111B	0.05 mg/l to 5 mg/l
		Manganese as Mn	APHA (22 nd Edition) 3500 Mn	0.05 mg/l to 20 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009)	0.03 mg/l to 1 mg/l
		Fluoride as F	APHA (22 nd Edition) 4500 F B, D IS 3025 (Part 60): 2008	0.1 mg/l to 10.0 mg/l
		Boron as B	APHA (22 nd Edition) B/B IS 13428: 2005 (RA 2009) Amd. 4 Annexure H	0.1 mg/l to 10 mg/l
		Phenolic Compound As C ₆ H ₅ OH	APHA (22 nd Edition) 5530 B, D/ IS 3025 (Part 43): 1992 (RA 2009) Amd. 2	0.01 mg/l to 3.0 mg/l
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 2009)/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 5 mg/l

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		Total Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009)/ APHA (22 nd Edition) 3111 B: 2009	0.05 mg/l to 5 mg/l
		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009) Amd. 2/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 10 mg/l
		Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2009) Amd. 1/ APHA (22 nd Edition) 4500 CN-C, E	0.01 mg/l to 5 mg/l
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3111 B	0.02 mg/l to 25 mg/l
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 2009)/ APHA (22 nd Edition) 3114 C	0.01 mg/l to 10 mg/l
		Arsenic as As	IS 3025 (Part 37): 1988 (RA 2009)/ APHA (22 nd Edition) 3114 B	0.02 mg/l to 10 mg/l
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2009) Amd. 1 APHA (22 nd Edition) 3112 B	0.001 mg/l to 10 mg/l
		Mineral Oil	ADIPL/SOP/CD/WW/073 (Issue date. 23.10.2013) IS 3025 (Part 39) Clause. 6 Infra red Partition Method	0.2 mg/l to 20 mg/l

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	Benzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Bromobenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Bromochloromethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Bromodichloromethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Bromoform		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Carbon Tetrachloride		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Chlorobenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Chloroform		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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	Cis 1,3 Dichloropropane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Cis 1,2 Dichloroethylene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Cumene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Dibromochloromethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Dibromomethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Ethylbenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Hexachlorobutadiene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	P,M Xylene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Methylene Chloride		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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	N Butyl Benzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Napthalene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	O Xylene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	P - Isopropyltoluene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Styrene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Sec Butylbenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Tetra Butyl Benzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Toluene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	Tetrachloroethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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		Trans 1,3 Dichloropropane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		Trans 1,2 Dichloroethylene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		Trichloroethylene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1 Dichloroethane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1 Dichloroethylene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1 Dichloropropene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1,1 Trichloroethane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1,1,2 Tetrachloroethane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,1,2 Trichloroethene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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	1,1,2,2 Tetrachloroethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2 Dibromo 3 Chloropropane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2 Dibromoethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2 Dichlorobenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2 Dichloropropane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2 Dichloroethane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2,3 Trichlorobenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2,3 Trichloropropane		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
	1,2,4trichlorobenzene		ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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		1,2,4 Trimethyl Benzene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,3 Dichloropropane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,3,5 Trimethyl Benzene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,4 Dichlorobenzene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		2 Chlortoluene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		2,2 Dichloropropane	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		N-Propyl Benzene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		1,3 Dichlorobenzene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l
		4 Chlorotoluene	ADIPL/SOP/CD/WW/075 by GC MS, Issue date. 05.11.2013 (USEPA 8260B/8260C)	1 µg/l to 200 µg/l

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3.	Water For Construction Purpose	Organic Solids	IS 3025 (Part 18): 1984 (RA 2006) Amd. 1	1 mg/l to 1000 mg/l
		In Organic Solids	IS 3025 (Part 18): 1984 (RA 2006) Amd. 1	1 mg/l to 5000 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2009) APHA (22 nd Edition) 4500 SO ₄ ²⁻ B	1 mg/l to 5000 mg/l
		Chloride as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009) APHA (22 nd Edition) 4500 Cl B	1 mg/l to 1000 mg/l
		Suspended Matter	IS 3025 (Part 17): 1984 (RA 2006) Amd. 1	2 mg/l to 1000 mg/l
		pH @ 25°C	IS 3025 (Part 11): 1983 (RA 2006) APHA (22 nd Edition) 4500 H ⁺ B	1 to 14
		Total Hardness as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2003)	0.1 mg/l to 100 mg/l
		Iron as Fe	IS 3025 (Part 53): 1986 (RA 2003)	0.01 mg/l to 5 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006	0.01 mg/l to 5 mg/l
		Oxidizable Matter	IS 1069): 1993 (RA 2008)	1 mg/l to 100 mg/l
		Specific Electrical Conductivity @ 25c	IS 3025 (Part 14): 2006	1 µmhos/cm to 200000 µmhos/cm

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		Total Dissolved Solids	IS 3025 (Part 16): 1986 (RA 2009)	1 mg/l to 100 mg/l
4.	Feed Water, Boiler Water & Condensate Water For High Pressure Boiler IS 10496: 1994 Feed Water & Boiler Water For Low & Medium Pressure Boiler	pH Value	IS 3025 (Part 11): 1983 (RA 2006) APHA (22 nd Edition) 4500 H ⁺ B	1 to 14
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C	1 mg/l to 5000 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2009) APHA (22 nd Edition) 4500 O ₂ B, C	0.2 mg/l to 8.0 mg/l
		Iron as Fe	APHA (22 nd Edition) 3500 Fe B	0.01 mg/l to 5 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009) Amd. 1 APHA (22 nd Edition) 3500Cu B	0.02 mg/l to 10 mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2009) APHA (22 nd Edition) 4500 SiO ₂ C, D	0.2 mg/l to 100 mg/l
		Oxygen Consumed in 4 Hrs	IS 3025 (Part 63): 2007	0.1 mg/l to 100 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009) Amd. 2 APHA (22 nd Edition) 2320 B	1 mg/l to 1000 mg/l
		Caustic Alkalinity as CaCO ₃	APHA (22 nd Edition) 2320 B	1 mg/l to 1000 mg/l

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		Total Phosphorous as P	IS 3025 (Part 31): 1988 (RA 2009) APHA (22 nd Edition) 4500 P B, D	0.01 mg/l to 100 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006) Amd. 1 / APHA (22 nd Edition) 2540C	1 mg/l to 1000 mg/l
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2006) Amd. 1 / APHA (22 nd Edition) 2540D	1 mg/l to 1000 mg/l
		Chlorides as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009) APHA (22 nd Edition) 4500 Cl ⁻ B	1 mg/l to 1000 mg/l
		Ammonia as NH ₃	IS 3025 (Part 34): 1988 (RA 2009)	0.01 mg/l to 20 mg/l
5.	Swimming Pool Water	pH @ 25 °C	IS 3025 (Part 11): 1983 (RA 2006)/ APHA (22 nd Edition) 4500 H ⁺ B	1 to 14
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2003) Amd. 2/ APHA (22 nd Edition) 2320 B: 2009	1 mg/l to 10000 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009) APHA (22 nd Edition) 3111D	0.03 mg/l to 10 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2009) Amd. 1/ APHA (22 nd Edition) 4500 Cl B	0.1 mg/l to 10 mg/l

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		Oxygen Observe in 4 h@ 27 °C	IS 3025 (Part 63): 2007	0.2 mg/l to 100 mg/l
		Chloride as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009)	1 mg/l to 5000 mg/l
		Heavy Metals as Pb	IS 7017: 1973 (RA 2010)	0.01 mg/l to 10 mg/l
		Color (Hazen Unit)	IS 3025 (Part 4): 1983 (RA 2006) Amd. 1 APHA (22 nd Edition) 2220 B	1 Hazen to 100 Hazen
		Turbidity as NTU	IS 3025 (Part 10): 1984 (RA 2006) APHA (22 nd Edition) 2230 B	0.5 NTU to 100 NTU / 101 NTU to 200 NTU
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Qualitative (Odour / Odourless)
		Taste	IS 3025 (Part 8): 1984 (RA 2006)	Qualitative (Palatable)
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2003) Amd. 1	1 mg/l to 5000 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009)	0.01 mg/l to 5 mg/l
6.	Storage Batteries Water	Non-Volatile Residue	IS 1069: 1993 (RA 2008)	1 mg/l to 10000 mg/l
		Chloride as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009)	1 mg/l to 10000 mg/l

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		pH @ 25 °C	IS 3025 (Part 11): 1983 (RA 2006) APHA (22nd Edition) 4500 H ⁺ B	1 to 14
		Heavy Metals as Pb	IS 7017: 1973 (RA 2010)	0.01 mg/l to 10 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 1983 (RA 2006)	0.1 mg/l to 100 mg/l
		Iron as Fe	IS 3025 (Part 53 2003 (RA 2009)	0.01 mg/l to 20 mg/l
		Manganese	IS 3025 (Part 59): 2006	0.01 mg/l to 5 mg/l
		Oxidizable Matter	IS 1069: 1993 (RA 2008)	0.2 mg/l to 100 mg/l
		Specific Electrical Conductivity @ 25° C	IS 3025 (Part 14): 1984 (RA 2006)	1 µmhos/cm to 200000 µmhos/cm
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006) Amd. 1	2 mg/l to 100 mg/l
7.	Natural Mineral Water, Packaged Drinking Water	Color	IS 3025 (Part 4): 1983 (RA 2006) Amd. 1 APHA (22 nd Edition) 2220 B: 2009,	1 Hazen to 100 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2006) APHA (22 nd Edition) 2150 B	Qualitative (Agreeable / Disagreeable)
		Taste	IS 3025 (Part 8): 1984 (RA 2006) APHA (22 nd Edition) 2160 B	Qualitative (Agreeable / Disagreeable)

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		Turbidity	IS 3025 (Part 10): 1984 (RA 2006)/ APHA (22 nd Edition) 2130 B	1 NTU to 400 NTU
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006) Amd. 1/ APHA (22 nd Edition) 2540 C	10 mg/l to 2000 mg/l
		pH	IS 3025 (Part 11): 1983 (RA 2006) APHA (22 nd Edition) 4500 H ⁺ B	1 to 14
		Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2009)	1 mg/l to 100 mg/l
		Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2009) APHA (22 nd Edition) 4500 NO ₂ B	0.01 mg/l to 10 mg/l
		Sulfide as S	IS 3025 (Part 29): 1986 (RA 2009) APHA (22 nd Edition) 4500S F	0.02 mg/l to 4.0 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006 APHA (22 nd Edition) 3111 B	0.01 mg/l to 10 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009) Amd. 1 APHA (22 nd Edition) 3111 B	0.02 mg/l to 10 mg/l
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009) Amd. 1 APHA (22 nd Edition) 3111 B	0.02 mg/l to 10 mg/l

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		Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500 F B, D IS 13428: 2005 (RA 2009) Amd. 4	0.1 mg/l to 5.0 mg/l
		Barium as Ba	IS 15302: 2003 (RA 2009) APHA (22 nd Edition) 3111 D	0.1 mg/l to 10 mg/l
		Antimony as Sb	IS 13428: 2005 RA : 2009 Amd. 4/ IS 15303: 2003 (RA 2009)	0.005 mg/l to 1 mg/l
		Borates as B	IS 13428: 2005 (RA 2009) Amd. 4	0.1 mg/l to 5 mg/l
		Silver as Ag	IS 13428: 2005 (RA 2009) Amd. 4/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 1 mg/l
		Chloride as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009) / APHA (22 nd Edition) 4500 Cl ⁻ B	1 mg/l to 1000 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2009) / APHA (22 nd Edition) 4500 SO ₄ B	1 mg/l to 5000 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) Amd. 2/ APHA (22 nd Edition) 3500 Mg B	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3500 Ca B,	0.5 mg/l to 1000 mg/l

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		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2009) Amd. 1/ APHA (22 nd Edition) 3500 Na.B	1 mg/l to 20000 mg/l
		Alkalinity As CaCO ₃ or HCO ₃	IS 3025 (Part 23): 1986 (RA 2009) Amd. 2/ APHA (22 nd Edition) 2320 B	1 mg/l to 1000 mg/l
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 2009) APHA (22 nd Edition) 3114 B	0.01 % to 10 mg/l
		Phenolic Compound as C ₆ H ₅ OH	IS 3025 (Part 43): 1992 (RA 2009) Amd. 2	0.01 5 to 3.0 mg/l
		Arsenic as As	IS 3025 (Part 37): 1988 (RA 2009)/ APHA (22 nd Edition) 3114 B	0.02 mg/l to 1 mg/l
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 2009) / APHA (22 nd Edition) 3111 B	0.01 mg/l to 10 mg/l
		Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2009) Amd. 1/ APHA (22 nd Edition) 4500 CN– C,E	0.01 mg/l to 5 mg/l
		Chromium as Cr	IS 13428: 2005 (RA 2009) Amd. 4/ IS 3025 (Part 52): 2003 (RA 2009)	0.05 mg/l to 5 mg/l
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2009) Amd. 1 / APHA (22 nd Edition) 3112 B	0.001 mg/l to 1mg/l

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		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009) Amd. 2/ APHA (22 nd Edition) 3111 B	0.01 mg/l to 1 mg/l
		Nickel as Ni	IS 13428: 2005 (RA 2009) Amd. 4/ IS 3025 (Part 54): 2003 (RA 2009)	0.02 mg/l to 10 mg/l
		Conductivity	IS 3025 (Part 14): 1984 (RA 2006)	2 µmhos/cm to 20000 µmhos/cm
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009) / APHA (22 nd Edition) 3500-Al	0.03 mg/l to 50 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009)	0.01 mg/l to 20 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 1983 (RA 2006)	1 mg/l to 8000 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986 (RA 2009) Amd. 1/ APHA (22 nd Edition) 4500 Cl B	0.2 mg/l to 100 mg/l
		Pesticides Residues		
		O,P -DDT	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		P,P -DDT	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		O,P- DDE	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		P,P -DDE	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l

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		O,P- DDD	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		P,P -DDD	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Gamma HCH (Lindane)	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Alpha HCH	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Beta HCH	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Delta HCH	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Alpha Endosulfan	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Beta Endosulfan	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Endosulfansulphate	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Monocrotophos	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Ethion	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Chlorpyrifos	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Phorate	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Phoratesulphoxide	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Phoratesulphone	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Butachlor	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Isoproturon	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l

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		Alachor	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Atrazine	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Methyl Parathion	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Methyl Paraoxon	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Malathion	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Malaaxon	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Aldrin	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		Dieldrin	USEPA 525.2: 1996	0.01 µg/l to 100 µg/l
		2,4 -Dichlorophenoxyacetic Acid	ADIPL/SOP/CD/WW/074 by LCMSMS (Issue date. 12.10.2013) USEPA 525.2: 1996	0.01 µg/l to 20 µg/l 0.02
		<u>Polynuclear Aromatic Hydrocarbons (PAH)</u>		
		Acenaphthene	EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
		Acenaphthylene	EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
		Anthracene	EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l

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	Phenanthrene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Benz(A) Anthracene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Chrysene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Benzo(B) Fluoranthene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Benzo(A)Pyrene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Benzo(K) Fluoranthene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Indeno(1,2,3-Cd)Perylene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Benzo(G,H,I) Perylene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Dibenzo(A,H)Anthracene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Fluoranthene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Pyrene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Fluorene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Naphthalene		EPA 3510C: 1996	0.1 µg/l to 2.0 µg/l
	Polychlorinated Biphenyl(Pcb)			
	2,4,4'-Trichlorobiphenyl		EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l
	2,2',5,5'-Tetrachlorobiphenyl		EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l

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		2,2',4,5,5'pentachlorobiphenyl	EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l
		2,2',3,4,4',Hexachlorobiphenyl	EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l
		2,2',4,4',5,5'hexachlorobiphenyl	EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l
		2,2',3,4,4',5,5'heptachlorobiphenyl	EPA 3510C: 1996 / EPA 8082: 2007	0.05 µg/l to 2.0 µg/l
8.	Water Drinking, Packaged Water, Drinking Water and Process Water	Chromium as Cr	ADIPL/SOP/CDWW/076 USEPA 200.2 and USEPA 200.8 ICP MS	0.002 mg/l to 20 mg/l
		Lead as Pb		
		Cadmium as Cd		
		Molybdenum as Mo		
		Selenium as Se		
		Arsenic as As		
		Copper as Cu		
		Manganese as Mn		
		Antimony as Sb		
		Silver as Ag		

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II. AIR , GASES & ATMOSPHERE				
1.	Ambient Air Monitoring	Suspended Particulate Matter	IS 5182 (Part 4): 1999 (RA 2010)	5.0 µg/m ³ to 500 µg/m ³
		Repairable Particulate Matter / PM ₁₀	IS 5182 (Part 23): 2006 / USEPA IO 2.3	2.0 µg/m ³ to 500 µg/m ³
		Sulphur Dioxide as SO ₂	IS 5182 (Part 2): 2001 (RA 2006)	2.0 µg/m ³ to 100 µg/m ³
		Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	2.0 µg/m ³ to 100 µg/m ³
		Carbon Monoxide	IS 5182 (Part 10): 1999 (RA 2009)	1.15 mg/m ³ to 100 mg/m ³
		Pm- 2.5	Gravimetric Method (PM 2.5 Federal Reference Method FRM 35(4) 339:342)/CPCB Guidelines for the measurement of ambient air pollutants, Vol. I, May 2011.	2 µg/m ³ to 500 µg/m ³
		Ammonia	Methods for ambient air sampling & analysis by James P.Lodge, Method #401	1 µg/m ³ to 250 µg/m ³
		Oxidants as O ₃	Methods for ambient air sampling & analysis by James P.Lodge, Method #411	1 µg/m ³ to 500 µg/m ³
		Lead	Methods for ambient air sampling & analysis by James P.Lodge, Method # 303A	0.005 µg/m ³ to 5 µg/m ³
		Nickel	Methods for ambient air sampling & analysis by James P.Lodge, Method # 303A	3 ng/m ³ to 30 ng/m ³

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		Arsenic	Methods for ambient air sampling & analysis by James P.Lodge, Method # 302	5 ng/m ³ to 10 ng/m ³
		Benzene	IS 5182 (Part 11): 2006	0.1 µg/m ³ to 10 µg/m ³
		Benzo (A) Pyrene	IS 5182 (Part 12): 2004 (RA 2009)	0.15 ng/m ³ to 10 ng/m ³
2.	Ambient /Work Zone	VOC Mix – M 502A(60 Compounds)		
		Benzene	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Bromo Benzene	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Bromochloro Methane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Bromodichloro Methane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Bromoform	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		N-Butylbenzene	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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	Tert-Butylbenzene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Sec-Butyl Benzene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Carbon Tetra Chloride		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Chlororbenzene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Chloroform		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	2-Chlorotoluene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	4-Chlorotoluene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Dibromo Chloromethane		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	1,2-Dibrom-3-Chlor-Propan		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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		1,2-Dibromo Ethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Dibromo Methane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,2-Dichlorobenzene	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,3-Dichlorobenzene	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,4-Diclorobenzene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,1-Dichloroethane	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Cis 1,2 Dichloroethylene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Ethene, 1,1-Dichloro	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,1-Dichlorethane	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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		2,2-Dichloropropane	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Cis 1,3 Dichloropropene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Trans-1,3-Dichloropropene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,1-Dichloropropene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Ethylbenzene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Hexachlorobutadiene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Isopropylbenzene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Methylene Chloride	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Naphthalene	ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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	N-Propylbenzene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Styrene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Ethane, 1,1,2,2-Tetrac...		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	1,1,1,2-Tetrachloroethane		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Tetrachloroethene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Toluene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	1,2,3-Trichlorobenzene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	1,2,4-Trichlorobenzene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	1,1,1-Trichlorethane		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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	1,1,2-Trichloroethane		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Trichloroethylene		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Propane, 1,2,3-Trichloro		ADIPL/SOP/CDA/14 by GC MS (Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Benzene, 1,2,4-Trimethyl-		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Benzene, 1,3,5-Trimethyl-		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	P,M-Xylene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	O-Xylene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Sec-Butyl Benzene		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
	Bromoemthane		ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³

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		Chloroethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Dichlorodifluoromethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Trichloromonofluoromethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Chloromethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Vinly Chloride	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,3-Dichloropropane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		1,2-Dichloroethane	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
		Trans 1,2-Dichloroethane.	ADIPL/SOP/CDA/14 by GC MS(Issue date. 10.10.2013) (USEPA to 17)	5 µg/m ³ to 250 µg/m ³
3.	Stack Emission Monitoring	Velocity	IS 11255 (Part 3): 2008	1.5 m/s to 60 m/s

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		Temperature	IS 11255 (Part 3): 2008	Ambient (-)600 °C
		Flow Rate	IS 11255 (Part 3): 2008	5 Nm ³ /h to 80000 Nm ³ /h
		Particulate Matter	IS 11255 (Part 1): 1985 (RA 2009)	4.8 mg/Nm ³ to 1000 mg/ Nm ³
		Sulphur Dioxide as SO ₂	IS 11255 (Part 2): 1985 (RA 2009)	3.4 mg/Nm ³ to 1000 mg/Nm ³
		Oxides of Nitrogen as NO ₂	IS 11255 (Part 7): 2005	2 mg/Nm ³ to 400 mg/Nm ³
		Co	IS 13270: 1992 (RA 2009) Flue Gas Analyzer (Direct Meter reading)	0.2 % to 25 % 0.2 ppm to 100 ppm
		Co ₂	IS 13270: 1992 (RA 2009) Flue Gas Analyzer (Direct Meter reading)	0.2 % to 20 % 0.2 ppm to 100 ppm
		O ₂	IS 13270: 1992 (RA 2009) Flue Gas Analyzer (Direct Meter reading)	0.2 % to 25 % 0.2 ppm to 100 ppm
		Acid Mist (H ₂ SO ₄)	EPA Method 8	2 mg/Nm ³ to 500 mg/Nm ³
		Ammonia	IS 11255 (Part 6): 1999 (RA 2009)	5 mg/Nm ³ to 150 mg/Nm ³
III. POLLUTION & ENVIRONMENT				
1.	Soil	pH @ 25 °c	IS 2720 (Part 26): 1987 (RA 2011)	1 to 14
		Dry Matter	IS 15106: 2002 (RA 2007)	50 % to 90 %

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		Water Content	IS 15106: 2002 (RA 2007)	1 % to 50 %
		Specific Electrical Conductivity	IS 14767: 2000 (RA 2010)	1 µmhos/cm to 1000 µmhos/cm
		Total Soluble Sulphate	IS 2720 (Part 27): 1977 (RA 2010)	0.05 % to 10 %
		Calcium Carbonates	IS 2720 (Part 23): 1976 (RA 2010)	0.005 % to 30 %
		Total Soluble Solids	IS 2720 (Part 21): 1977 (RA 2010), Amd. 1	0.01 % to 50 %
		Cation Exchange Capacity	IS 2720 (Part 24): 1976 (RA 2010), Amd. 1	1 % to 20 %
		Organic Matter	IS 2720 (Part 22): 1972 (RA 2010), Amd. 1	0.1 % to 50 %
		Nitrogen and Nitrogenous Compounds	IS 14684: 1999 (RA 2008)	2 mg/kg to 1000 mg/kg
		Oil and Grease	APHA (22 nd Edition) 5520-E: 2005	1 mg/kg to 1000 mg/kg
2.	Soil, Sludge & Solid Waste	pH @ 25 °c	IS 10158: 1982 (RA 2009)	1 to 14
		Moisture Content	IS 9235: 1979 (RA 2009) Amd. 1	0.1 % to 30 %
		Total Kjeldhal Nitrogen	IS 10158: 1982 (RA 2009)	10 mg/kg to 1000 mg/kg
		Phosphorus	IS 10158: 1982 (RA 2009)	1 mg/kg to 5000 mg/kg
		Calcium as Ca	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg

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		Magnesium as Mg	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Potassium	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Aluminium as Al	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Barium as Ba	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Silver as Ag	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 500 mg/kg
		Copper as Cu	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000mg/kg
		Iron as Fe	EPA 3050 B: 1996 (Rev. 2.0)	5 mg/kg to 50000 mg/kg
		Manganese as Mn	EPA 3050 B: 1996 (Rev. 2.0)	5 mg/kg to 5000 mg/kg
		Zinc as Zn	EPA 3050 B: 1996 (Rev. 2.0)	5 mg/kg to 5000 mg/kg
		Lead as Pb	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Cadmium as Cd	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Chromium as Cr	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Nickel as Ni	EPA 3050 B: 1996 (Rev. 2.0)	5 mg/kg to 5000 mg/kg
		Antimony as Sb	EPA 3050 B: 1996 (Rev. 2.0)	2 mg/kg to 5000 mg/kg
		Arsenic as As	EPA 7062: 1996	2 mg/kg to 5000 mg/kg
		Mercury as Hg	EPA 7471 B: 2007(Rev. 2)	0.5 mg/kg to 5000 mg/kg
		Selenium as Se	EPA 7740 B: 1996	1 mg/kg to 5000 mg/kg

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	Pesticides			
	Aldrin		ADIPL/SOP/CD/SO/21/GC MSMS (Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Dieldrin		ADIPL/SOP/CD/SO/21/GC MSMS (Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Alpha BHC		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Gamma BHC		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Delta BHC		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Beta BHC		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Alpha Endosulfan		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Beta Endosulfan		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
	Endosulfan Sulphate		ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg

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		O,P - DDD	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		P,P - DDD	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		O,P - DDT	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		P,P - DDT	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		O,P - DDE	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		P,P - DDE	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Alachlor	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Atrazine	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Butachlor	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg

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		Phorate	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Chlorpyrifos	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Chlorpyrifos Methyl	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Methyl Parathion	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Methyl Paraxone	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Malaoxone	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Malathion	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Phorate Sulfone	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Phorate Sulfoxide	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)C)	0.025 µg/kg to 25 µg/kg

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		Hexachlorobenzene	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Isoproturon	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		2,4- D	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
		Ethion	ADIPL/SOP/CD/SO/21/GC (MSMS Issue date. 12.11.2012) (USEPA 3540 C)	0.025 µg/kg to 25 µg/kg
5.	Hazardous Waste	Paint Filter Liquid Test	SW 846-9095A: 2008	Qualitative (Pass/Fail)
		Bulk Density	ASTM D 5057-90: 1996	0.2 g/cc to 3 g/cc
		pH	USEPA 2008 SW- 846: 9045 C	1 to 14
		Flash Point	USEPA 2008, SW-846: 1020A	Ambient (-)300 °C
		Moisture Content	IS 326 (Part 21): 2001 (RA 2006)	1 % to 100 %
		Loss On Ignition At 550°C (Dry Basis)	APHA (22 nd Edition): 2540	1 % to 90 %
		Calorific Value	IS 1350 (Part 2): 1975 (RA 2010) Amd. 1	200 cal/g to 15000 cal/g

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		Oil & Grease / Extractable Organics	USEPA 3540 C: 1998, SW-846: 2008	1 % to 90 %
		% Water Soluble Inorganic Substances	APHA (22 nd Edition) 2540 E	1 % to 99 %
		% Water Soluble Organic Substances	APHA (22 nd Edition) 2540 E	1 % to 99 %
		Reactive Cyanide as HCN	USEPA 2008,SW-846: 9014	1 mg/kg to 10000 mg/kg
		Total Cyanide as CN-	USEPA 2008,SW-846: 9014 APHA (22 nd Edition) 4500 CN K: 2005	1 mg/kg to 10000 mg/kg
		Total Sulfide as S2-	USEPA: 1998,SW-846: 9225	10 mg/kg to 1000 mg/kg
		Reactive Sulphide	USEPA: 1998,SW-846: 9034	1 mg/kg to 10000 mg/kg
		Ammonia (WLT)	APHA (22 nd Edition) 4500-NH ₃ B	1 mg/l to 10000 mg/l
		Total Cyanide (Wlt)	USEPA: 1998,SW-846: 9014	1 mg/l to 10000 mg/l
		Total Cyanide (Tclp)	USEPA: 1998,SW-846: 9014	1 mg/l to 10000 mg/l
		Tclp(Toxicity Characteristic Leaching Procedure)	USEPA: 1998,SW-846: 1311	NA
		Copper (Total)	USEPA SW 846: 3050 B,7210	1 mg/kg to 10000 mg/kg
		Copper (WLT)	USEPA SW 846: 3010A,7210	0.1 mg/l to 10000 mg/l
		Copper (TCLP)	USEPA SW 846: 3010A,7210	0.1 mg/l to 10000 mg/l

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		Iron as Fe(TCLP)	APHA (22 nd Edition) 3500 Fe B	1 mg/l to 10000 mg/l
		Iron as Fe(Total)	APHA (22 nd Edition) 3500 Fe B	5 mg/kg to 100000 mg/kg
		Iron as Fe(WLT)	APHA (22 nd Edition) 3500 Fe B	1 mg/l to 10000 mg/l
		Lead (Total)	USEPA SW 846: 7420,3050 B	10-100000 mg/kg
		Lead (TCLP)	USEPA SW 846: 7420,3010A	0.1 mg/l to 10000 mg/l
		Lead (WLT)	USEPA SW 846: 7420,3010A	0.1 mg/l to 10000 mg/l
		Nickel (Total)	USEPA SW 846: 7420,3010 A	5 mg/kg to 100000 mg/kg
		Nickel (TCLP)	USEPA SW 846: 7420,3010 A	1 mg/l to 10000 mg/l
		Nickel (WLT)	USEPA SW 846: 7420,3050B	1 mg/l to 10000 mg/l
		Zinc (Total)	USEPA SW 846: 7950,3050B	5 mg/kg to 100000 mg/kg
		Zinc (WLT)	USEPA SW 846: 7950,3010A	1 mg/l to 10000 mg/l
		Zinc (TCLP)	USEPA SW 846: 7950,3050B	1 mg/l to 10000 mg/l
		Arsenic (Total)	APHA (22 nd Edition) 3114 B	10 mg/kg to 50000 mg/kg
		Arsenic (TCLP)	APHA (22 nd Edition) 3114 B	0.1 mg/l to 1000 mg/l
		Arsenic (WLT)	APHA (22 nd Edition) 3114 B	0.1 mg/l to 1000 mg/l
		Cadmium (Total)	USEPA: 1998, SW 846: 7130,3050B	0.5 mg/kg to 100000 mg/kg
		Cadmium (TCLP)	USEPA: 1998, SW 846: 7130,3010 A	0.1 mg/l to 10000 mg/l

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		Cadmium (WLT)	USEPA: 1998, SW 846: 7130,3010 A	0.1 mg/l to 10000 mg/l
		Total Chromium (Total)	USEPA SW 846: 7190,3050 B	5 mg/kg to 100000 mg/kg
		Total Chromium (Tclp)	USEPA SW 846: 7190,3010A	0.5 mg/l to 10000 mg/l
		Chromium-VI (TCLP)	USEPA SW 846: 7196A	0.2 mg/l to 10000 mg/l
		Chromium-VI (WLT)	USEPA SW 846: 7196A	0.2 mg/l to 10000 mg/l

IV. FOOD & AGRICULTURAL PRODUCTS

1.	Oil and Fats (Including Ground Nut/Sesame/Coco nut/Maize/Corn/ Ricebran/Sunflow er/Safflower/Ani mal Tallow/Margarin e/Ghee)	Moisture	IS 548 (Part 1): 1964 (RA 2010)	0.1 % to 1 %
		Insoluble Impurities	IS 548 (Part 1): 1964 (RA 2010)	0.05 % to 0.50 %
		Free Fatty Acids	IS 548 (Part 1): 1964 (RA 2010)	0.5 % to 10 %
		Acid Value	IS 548 (Part 1): 1964 (RA 2010)	0.5 to 20
		Saponification Value	IS 548 (Part 1): 1964 (RA 2010)	50 to 275
		Unsaponifiable Matter	IS 548 (Part 1): 1964 (RA 2010)	0.5 % to 5 %
		Iodine Value	IS 548 (Part 1): 1964 (RA 2010)	5 to 200
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2010)	1 meq/kg to 5 meq/kg
		Acetyl Value/ Hydroxyl Value	IS 548 (Part 1): 1964 (RA 2010)	0.5 to 200
		Test For Mineral Oil	IS 548 (Part 1): 1964 (RA 2010)	Qualitative (Present or Absent)
		Test For Ground Nut Oil	IS 548 (Part 1): 1964 (RA 2010)	Qualitative

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		Test For Sesame Oil	IS 548 (Part 1): 1964 (RA 2010)	(Present or Absent) Qualitative (Present or Absent)
		Test For Castor Oil	IS 548 (Part 1): 1964 (RA 2010)	Qualitative (Present or Absent)
		Refractive Index	IS 548 (Part 1): 1964 (RA 2006) /DGHS Lab Manual 2,2005	1.3 to 1.7
		Melting Point	IS 548 (Part 1): 1964 (RA 2006) /DGHS Lab Manual 2,2005	30 °C to 60 °C
		Flash Point	IS 1448 (Part 20): 1998/ DGHS Lab Manual 2 2005, IS 548 (Part 1): 1964 (RA 2006)	38 °C to 350 °C
		Specific Gravity	IS 548 (Part 1): 1964 (RA 2010)/ DGHS Lab Manual 2,2005	0.8 to 0.95
		Rancidity	DGHS Lab Manual 2,2005	Qualitative (Present/Absent)
		Presence of Semi Siccative	DGHS- lab Manual 2,2005	Qualitative (Present/Absent)
		Presence of Olive Pomace	DGHS Lab Manual 2,2005	Qualitative (Present/Absent)
		Test For Presence of Poly Bromide	DGHS Lab Manual 2,2005/ IS 548 (Part 1): 1964 (RA 2010)	Qualitative (Present/Absent)

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2.	Animal Feeds(Including Oil Cakes/Poultry Feed /Shrimp Feed/Fish Feed)	Moisture	IS 7874 (Part 1): 1975 (RA 2004)	5 % to 20 %
		Total Ash	IS 7874 (Part 1): 1975 (RA 2004)	0.5 % to 40 %
		Acid Insoluble Ash	IS 7874 (Part 1): 1975 (RA 2004)	0.3 % to 10 %
		Crude Fat	IS 7874 (Part 1): 1975 (RA 2004)	0.5 % to 20 %
		Crude Fiber	IS 7874 (Part 1): 1975 (RA 2004)	0.5 % to 30 %
		Crude Protein	IS 7874 (Part 1): 1975 (RA 2004)	5 % to 65 %
		Salt as Nacl	IS 7874 (Part 1): 1975 (RA 2004)	0.5 % to 5 %
		Calcium as Ca	IS 7874 (Part 1): 1975 (RA 2004) / AOAC (19 th Edition): 2012	0.01 % to 5 %
		Phosphorous as P	IS 7874 (Part 1): 1975 (RA 2004) / AOAC (19 th Edition): 2012	0.5 % to 10 %
		Energy	Pearson's Composition and analysis of food (9 th Edition): 1991. (by calculation)/ DGHS Lab Manual 3,2005	(25 kcal to 1000 kcal) /100 g
		Carbohydrate	DGHS Lab Manual 3,2005	Qualitative (by Calculation)
		Pesticides		
		Aldrin	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg

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	Dieldrin		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Alpha BHC		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Gamma BHC		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Delta BHC		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2001: 2012	0.01 mg/kg to 20 mg/kg
	Beta BHC		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Alpha Endosulfan		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Beta Endosulfan		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg

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		Endosulfan Sulphate	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		O,P - DDD	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		P,P - DDD	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		O,P - DDT	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		P,P - DDT	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		O,P - DDE	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		P,P - DDE	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg

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	Alachlor		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Atrazine		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Butachlor		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Phorate		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Chlorpyrifos		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Chloropyrifos Methyl		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Methyl Parathion		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg

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	Methyl Paraoxon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Malaoxon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Malathion		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Phorate Sulfone		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Phorate Sulfoxide		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Hexachlorobenzene		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
	Isoproturon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg

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		2,4 D	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
		Ethion	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 mg/kg to 20 mg/kg
3.	Dairy & Dairy Products: (Including Raw/ Sterilized/ Pasteurized/ Boiled/ Homogenized/ Flavored/ Tonned	Description	IS 1165: 2002 (RA 2009)	NA
		Flavor & Taste	IS 1165: 2002 (RA 2009)	NA
		Moisture	AOAC (19 th Edition) 9205/ 920.116: 2012; IS 11623: 2008	1 % to 10 %
		Ash	AOAC (19 th Edition) 945.46: 2012, IS 11623: 2008	0.1 % to 10 %
		Total Solids	AOAC (19 th Edition) 990.19: 2012, IS 11623: 2008	10 % to 99 %
		Fat	AOAC (19 th Edition) 989.05, 905.02: 2012; IS 11721: 2003/ IS 1224 (Part 2): 1977 (RA 2009)	1 % to 50 %
		Solids-Non-Fat (Snf)	AOAC (19 th Edition) 990.21 : 2012	5 % to 90 %

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		Protein	AOAC (19 th Edition) 991.20: 2012	1 % to 25 %
		Carbohydrates	AOAC (19 th Edition) 986.25: 2012, NIN, IS 1656: 2007	40 % to 60 %
		Free Fatty Acids	AOAC (19 th Edition) 940.28: 2012	0.10 % to 5 %
		Milk Fat	AOAC (19 th Edition) 989.05, 905.02: 2012; IS 11721: 2005	1 % to 50 %
		Milk Solids	AOAC (19 th Edition): 2012 IS 11623: 2008	1 % to 50 %
		Milk Protein	AOAC (19 th Edition) 991.20: 2012	1 % to 10 %
		Titrateable Acidity	IS 1165: 2002; AOAC (19 th Edition) 9305: 2012	0.1 % to 40 %
		Total Ash	AOAC (19 th Edition) 9405: 2012	0.05 % to 20 %
		pH	AOAC (19 th Edition) 981.12: 2012	1.0 to 14
		Energy	Pearson's Composition and analysis of food (9 th Edition): 1991 (by calculation)/ DGHS Lab Manual 1,2005	(25 kcal to 1000 kcal) /100 g
		Carbohydrate	AOAC (19 th Edition) 986.25: 2012, /DGHS Lab Manual 1,2005	Qualitative (by Calculation)

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		Density	AOAC (19 th Edition) 925.22: 2012,	0.5 g/cc to 2.0 g/cc
		Acid Insoluble Ash in Dil Hcl	DGHS Lab Manual 3,2005 / IS 1011: 2002 (RA 2009)	0.01 % to 10 %
4.	Milk	Adulterants Cane Sugar, Cellulose, Starch, Added Urea, Glucose, Ammonium Sulfate, Saccharin, Foreign Fat, Glucose, Sodium Chloride	DGHS Lab Manual 1: 2005	Qualitative (Present or Absent)
		Neutralisers Hypochlorites and Chloramines, Quarternary Ammonium Compounds, Detergents Containing Alkylbenzene Sulfonic Acids, Skimmed Milk Powder, Gelatin.	DGHS Lab Manual 1: 2005	Qualitative (Present or Absent)
		Preservatives Formalin, Hydrogen Peroxide, Boric Acid & Borates, Salicylic Acid	DGHS Lab Manual 1: 2005	Qualitative (Present or Absent)
5.	Spices & Spice Products (Whole & Ground) (Including Chilli/ Chillipowder/ Turmeric/ Turmeric Powder/ Curry Powder/ Chillioloeresins /	Physical Examination		
		Extraneous Matter	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 20 %
		Insect Damaged Matter	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 10 %
		Empty / Malformed Capsules	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 50 %

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	Cardamom/ Masala)	Immature and Shriveled Capsules Broken	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000) IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 20 % 0.01 % to 20 %
		Tendrils	IS 4333Part 2): 1996,RA 2012 IS 3579: 1996 (RA 2000)	0.04 % to 50 %
		Headless Cloves	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 50 %
		Split Fruits	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 5 %
		Damaged/ Discoloured Fruits	IS 4333 (Part 2): 1996 (RA 2012) IS 3579: 1996 (RA 2000)	0.01 % to 5 %
		Added Coloring Matter	DGHS Lab Manual 10: 2005	Qualitative (Soluble or Not Soluble)
		Volatile Oil Content	IS 1797: 1989 (RA 2009)	1 % to 100 %
		Rodent Hair & Excreta	DGHS Lab Manual 10,2005	Qualitative (Present or Absent)
		Chemical Test		
		Moisture	AOAC (19 th Edition) 941.11: 2012; IS 1797: 1985 (RA 2009)	1 % to 20 %
		Total Ash	AOAC (19 th Edition) 941.12: 2012;	0.05 % to 25 %

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			IS 1797: 1985 (RA 2009)	
	Acid Insoluble Ash		AOAC (19 th Edition) 941.12: 2012; IS 1797: 1985 (RA 2009)	0.01 % to 20 %
	Non-Volatile Ether Extract		AOAC (19 th Edition) 940.29: 2012	0.5 % to 30 %
	Volatile Oil/Essential Oils		IS 1797: 1985 (RA 2009) ASTA (4 th Edition): 11	0.1 % to 50 %
	Protein		AOAC (19 th Edition) 970.55, 962.17: 2012; IS 1797: 1985 (RA 2009)	0.5 % to 20 %
	Crude Fibre		AOAC (19 th Edition) 920.165: 2012; IS 1797: 1985 (RA 2009)	0.5 % to 30 %
	Curcumin		AOAC (19 th Edition) 920.169: 2012; IS 1797: 1985 (RA 2009)	1 % to 10 %
	Sulphite Residues		ASTA (4 th Edition) 18.0	10 mcg/g to 1000 mcg/g
	Salt as NaCl		AOAC (19 th Edition) 990.28: 2012	0.1 % to 10 %
	Solubility in Cold Water On Dry Wet Basis		IS 1797: 1985 (RA 2009)	15 % to 90 %
	Total Nitrogen On Dry Basis		IS 1797: 1985 (RA 2009) DGHS Lab Manual 10,2005	0.1 % to 25 %

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6.	Food Grains / Cereals & Pulses (Whole & Ground)	Chemical Test		
		Moisture	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	1 % to 15 %
		Total Ash	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	0.05 % to 10 %
		Acid Insoluble Ash	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	0.01 % to 10 %
		Gluten	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	1 % to 15 %
		Crude Fibre	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	0.5 % to 10 %
		Alcoholic Acidity	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	0.01 % to 1 %
		Granularity	IS 1155: 1968 (RA 2010) IS1010: 2000, IS1009: 1979 (RA 2010)	0.1 % to 100 %
		Iron	AOAC (19 th Edition) 944.02: 2012	0.5 ppm to 100 ppm

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	Energy		Pearson's Composition and analysis of food (9 th Edition): 1991. (by calculation)/ DGHS Lab Manual 3,2005	(25 kcal to 1000 kcal) /100 g
	Carbohydrate		DGHS Lab Manual 3,2005	Qualitative (by Calculation)
	Fat		AOAC (19 th Edition) 920.85: 2012	0.1 % to 30 %
	Protein		AOAC (19 th Edition) 960.52: 2012	0.5 % to 25 %
	Acidity Extracted Fat		IS 1011: 2002 (RA 2006)	0.01 % to 15 %
	Foreign Mater		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Mineral Matter		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Organic Matter		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Rodent Hair & Excreta		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Insect Damaged Weevilled Grains		IS 4333 (Part 1): 1996 (RA 2009)	0.01 % to 15 %
	Other Edible Grains		IS 4333 (Part 5): 1996 (RA 2009)	0.01 % to 10 %
	Damaged Grains		IS 4333 (Part 1): 1996 (RA 2009)	0.01 % to 10 %
	Test For Mineral Oil		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)

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	Argemone Seeds		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Khesari Dal		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Insect		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Microscopic Examination		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Presence of Mould		DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
	Uric Acid		ADIPL/SOP/CDF-C & P/015 (Issue date. 15.02.2014)	10 ppm to 200 ppm
	Pesticides			
	Dieldrin		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Carbaryl		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Chlordane		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm

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	Diazinon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Dichlorvos		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Fenitrothion		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Heptachlor		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Chlorienvinphos		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Paraquat Dichloride		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Trichlorfon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Thiometon		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012)	0.01 ppm to 10 ppm

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			AOAC (19 th Edition) 2007.01: 2012	
	Carbendazim		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Benomyl		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Carbofuran		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Deltamethrin		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Fention		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Phenthoate		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
	Pirimiphos Methyl		ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012)	0.01 ppm to 10 ppm

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			AOAC (19 th Edition) 2007.01: 2012	
		Oxydemeton Methyl	ADIPL/SOP/F&A/002/GCMSMS (Issue date. 12.11.2012) AOAC (19 th Edition) 2007.01: 2012	0.01 ppm to 10 ppm
7.	Beverages	Energy	Pearson's Composition and analysis of food (9 th Edition): 1991. (by calculation)/ DGHS Lab Manual 4,2005	(25 kcal to 1000 kcal) /100 g
		Carbohydrate	DGHS Lab Manual 4,2005	Qualitative (by Calculation)
		Moisture	AOAC (19 th Edition) 925.19: 2012	1 % to 20 %
		Total Ash	AOAC (19 th Edition) 920.100: 2012	1 % to 20 %
		Crude Fibre	AOAC (19 th Edition) 920.102: 2012.	0.05 % to 10 %
		Water Soluble Ash	AOAC (19 th Edition) 920.100: 2012.	1 % to 50 %
		Acid Insoluble Ash	AOAC (19 th Edition) 920.100: 2012.	0.01 % to 2 %
		Cold Water Solubility	IS 2791: 1992 (RA 2009)	Qualitative (Soluble or Not Soluble)
		Hot Water Solubility	IS 2791: 1992 (RA 2009)	Qualitative

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				(Soluble or Not Soluble)
		Chicory Test	DGHS Lab Manual 4,2005	Qualitative (Present or Absent)
		Alkalinity of Water Soluble Ash	DGHS Lab Manual 4,2005	0.1 % to 15 %
		Rodent Hair and Excreta	DGHS Lab Manual 3,2005	Qualitative (Present or Absent)
		Foreign Mater	DGHS Lab Manual 3,2005	Qualitative (Present or Absent)
		Caffeine	ADIPL/SOP/CD/F&A/007 (Issue date. 10.10.2013), AOAC (19 th Edition) 980.14: 2012	1 mg/kg to 500 mg/kg
8.	Nuts and Nut Products	Energy	Pearson's Composition and analysis of food (9 th Edition): 1991. (by calculation)/ DGHS Lab Manual 3,2005	(25 kcal to 1000 kcal)/ 100 g
		Carbohydrate	DGHS Lab Manual 3,2005	Qualitative (by Calculation)
		Moisture	AOAC (19 th Edition) 925.19: 2012	1 % to 20 %
		Total Ash	AOAC (19 th Edition) 920.100: 2012	1 % to 10 %
		Crude Fibre	AOAC (19 th Edition) 920.102: 2012	0.05 % to 10 %

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		Protein	AOAC (19 th Edition) 920.85: 2012	0.05 % to 20 %
		Fat	AOAC (19 th Edition) 920.103: 2012	0.1 % to 5 %
		Acid Insoluble in Ash	AOAC (19 th Edition) 920.100: 2012	0.01 % to 5 %
		Acidity Extracted Fat	IS 1011: 2002 (RA 2006)	0.01 % to 15 %
		Foreign Mater	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Mineral Matter	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Organic Matter	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Rodent Hair & Excreta	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
9.	Bakery & Bakery Products	Moisture	DGHS Lab Manual 3,2005/ IS 1011: 2002 (RA 2009)	1 % to 20 %
		Total Ash	DGHS Lab Manual 3,2005/ IS 1011: 2002 (RA 2009)	0.5 % to 40 %
		Acid Insoluble Ash	DGHS Lab Manual 3,2005 / IS 1011: 2002 (RA 2009)	0.01 % to 10 %
		Fat	IS 11721: 2005 (RA 2010)	0.1 % to 20 %
		Crude Fiber	DGHS Lab Manual 3,2005/ IS 1155: 1968 (RA 2010)	0.1 % to 30 %

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		Crude Protein	DGHS Lab Manual 3,2005/ AOAC (19 th Edition) 991.20: 2012	3 % to 65 %
		Salt as Nacl	DGHS Lab Manual 3,2005/ IS 3507: 1966 (RA 2012)	0.1 % to 20 %
		Acidity Extracted Fat	DGHS Lab Manual 3,2005/ IS 1011: 2002 (RA 2009)	0.1 % to 20 %
		Energy	Journal of food composition and analysis 10, 102-114(1997) Article No.FC 9700527 (by calculation)	(25 kcal to 1000 kcal) /100 g
		Carbohydrate	DGHS Lab Manual 3,2005/ IS 1656: 2007 (RA 2012) (by Calculation)	Qualitative (by Calculation)
10.	Heavy Metals Cereals & Cereal Products/ Spices & Condiments)	Zinc	AOAC (19 th Edition) 999.11: 2012,	0.255 mg/kg to 100 mg/kg
		Copper	AOAC (19 th Edition) 999.11: 2012	0.214 mg/kg to 100 mg/kg
		Cadmium	AOAC (19 th Edition) 999.11: 2012,	0.06 mg/kg to 10 mg/kg
		Lead	AOAC (19 th Edition) 999.11: 2012	0.413 mg/kg to 100 mg/kg
11.	Tea and Tea Products	Lead	AOAC (19 th Edition) 999.11: 2012	0.413 mg/kg to 100 mg/kg

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		Cadmium	AOAC (19 th Edition) 999.11: 2012	0.06 mg/kg to 100 mg/kg
12.	Coffee ,Cocoa and Byproducts	Lead	AOAC (19 th Edition) 999.11: 2012	0.413 mg/kg to 100 mg/kg
13.	Beverages (Non Alcoholic/Carbon ated Drinks/Tea and Tea Product, Coffee, Cocoa and by Product)	Lead	AOAC (19 th Edition) 999.11: 2012,	0.413 mg/kg to 100 mg/kg
		Zinc	AOAC (19 th Edition) 999.11: 2012	0.255 mg/kg to 100 mg/kg
		Copper	AOAC (19 th Edition) 999.11: 2012,	0.214 mg/kg to 100 mg/kg
		Cadmium	AOAC (19 th Edition) 999.11: 2012	0.06 mg/kg to 100 mg/kg
14.	Fruit Juices and Concentrates	Lead	AOAC (19 th Edition) 999.11: 2012	0.413 mg/kg to 100 mg/kg
15.	Mycotoxins in Food & Feed	Aflatoxins B1	ADIPL/SOP/CD /F&A/003 (Issue date. 10.10.2013)/ B-pharm/ AOAC (19 th Edition) 999.07: 2012	1 µg/kg to 20 µg/kg
		Aflatoxins B2	ADIPL/SOP/CD /F&A/003 (Issue date. 10.10.2013)/ B-pharm/ AOAC (19 th Edition) 999.07: 2012	1 µg/kg to 20 µg/kg
		Aflatoxins G1	ADIPL/SOP/CD /F&A/003 (Issue date. 10.10.2013)/	1 µg/kg to 20 µg/kg

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			B-pharm/ AOAC (19 th Edition) 999.07: 2012	
		Aflatoxins G2	ADIPL/SOP/CD /F&A/003 (Issue date. 10.10.2013)/ B- pharm/ AOAC (19 th Edition) 999.07: 2012	1 µg/kg to 20 µg/kg
16.	Milk and Dairy Products	Mycotoxin M1	ADIPL/SOP/CD/F&A/004 (Issue date. 10.10.2013)/ B- pharm/ AOAC (19 th Edition) 2000.08: 2012	0.05 µg/kg to 20 µg/kg
17.	Food and Agriproducts	Cholesterol	ADIPL/SOP/CD/F&A/005 (Issue date. 10.10.2013)/ AOAC (19 th Edition) 994.10: 2012	0.1 % to 50 %
		Total Fatty Acids	ADIPL/SOP/CD/F&A/006 (Issue date. 10.10.2013)/ AOAC (19 th Edition) 9622: 2012	0.1 % to 100 %
18.	Coffee	Caffeine	ADIPL/SOP/CD/F&A/007 (Issue date. 10.10.2013) AOAC (19 th Edition): 2012,	1 mg/kg to 500 mg/kg
19.	Fruits & Vegetables	Rotting	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Mould	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Added Wax Coating	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)
		Rodent Contamination	DGHS Lab Manual 3,2005	Qualitative (Present/Absent)

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	Pesticides			
	Aldrin		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Dieldrin		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Alpha -BHC		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Gamma -BHC		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Delta -BHC		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Beta-BHC		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Alpha Endosulfan		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg

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	Beta Endosulfan		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Endosulfan Sulphate		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	O,P - DDD		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	P,P - DDD		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	O,P - DDT		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	P,P - DDT		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	O,P - DDE		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01	0.01 mg/kg to 20 mg/kg

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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
			: 2012	
	P,P - DDE		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Alachlor		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Atrazine		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Butachlor		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Phorate		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Chlorpyrifos		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Chloropyrifos Methyl		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg

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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
	Methyl Parathion		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Methyl Paraaxon		ADIPL/SOP/F&A/001/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Malaaxon		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Malathion		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Phorate Sulfone		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Phorate Sulfoxide		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Hexachlorobenzene		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg

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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
	Isoproturon		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	2,4- D		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Ethion		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Dichlorvos		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Chlordane		ADIPL/SOP/F&A/001/GCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Paraquat Dichloride		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
	Thiometon		ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg

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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
		Carbendazim	ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
		Benomyl	ADIPL/SOP/F&A/008/LCMSMS (Issue date. 12.10.2012) AOAC (19 th Edition) 2007.01 : 2012	0.01 mg/kg to 20 mg/kg
		Carbofuran	ADIPL/SOP/F&A/008/LCMSMS AOAC (19 th Edition) 2007.01 : 2012 (Issue date. 12.10.2012)	0.01 mg/kg to 20 mg/kg
		Deltamethrin	ADIPL/SOP/F&A/008/GCMSMS AOAC (19 th Edition) 2007.01 : 2012 (Issue date. 12.10.2012)	0.01 mg/kg to 20 mg/kg

V. INDUSTRIAL AND FINE CHEMICALS

Aluminium Sulphate (Ferric)

Water Insoluble Matter	IS 299: 1989 (RA 1999)	0.1 % to 5 %
Iron as Fe	IS 299: 1989 (RA 1999)	0.2 % to 3 %
pH of 5 % Aqueous Solution	IS 299: 1989 (RA 1999)	2.0 to 14.0
Water Soluble Aluminium Compounds as Al ₂ O ₃	IS 299: 1989 (RA 1999)	0 to 18 %

Aluminium Sulphate (Non – Ferric)

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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
		Water Insoluble Matter	IS 260: 2001(RA 2007)	0.01 % to 0.1 %
		Iron as Fe	IS 260: 2001 (RA 2007)	0.01 % to 1 %
		Water Soluble Aluminium Compounds as Al ₂ O ₃	IS 260: 2001 (RA 2007)	14.0 % to 18.0 %
		pH of 5 % Aqueous Solution	IS 260: 2001 (RA 2007)	2.0 to 14
		Bleaching Powder		
		Available Chlorine as CaOCl	IS 1065: 1989 (RA 2010) Amd. 1	25 % to 70 %
		Moisture	IS 1065: 1989 (RA 2010) Amd. 1	0.10 % to 1 %
		Caustic Soda		
		Assay (Solid)	IS 252:1991 (RA 2010) Amd. 1	90 % to 98 %
		Assay(Liquid)	IS 252:1991 (RA 2010) Amd. 1	48 % to 60 %
		Sodium Carbonate as Na ₂ CO ₃	IS 252:1991 (RA 2010) Amd. 1	0.5 % to 2.0 %
		Sodium Chloride		
		Assay NaCL	IS 253: 1985 (RA 2004) Amd. 1	80 % to 100 %
		Calcium as Ca	IS 253: 1985 (RA 2004) Amd. 1	0.10 % to 1 %
		Moisture @150 °C	IS 253: 1985 (RA 2004) Amd. 1	0.10 % to 1 %
		Iron as Fe	IS 253: 1985 (RA 2004) Amd. 1	1 ppm to 100 ppm
		Matter Insoluble in Water	IS 253: 1985 (RA 2004) Amd. 1	0.10 % to 2 %
		Magnesium as Mg	IS 253: 1985 (RA 2004) Amd. 1	0.1 % to 1 %

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		Sulfates as SO ₄	IS 253: 1985 (RA 2004) Amd. 1	0.1 % to 1.0 %
-X-X-X-X-X-X-X-X-X-X-X-				