

Laboratory Analytical Laboratory, Detox Corporation Pvt. Ltd., 3rd Floor,
K.G. Chambers, Udhana Darwaja, Ring Road, Surat, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6768 (in lieu of T-1635)

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Validity 07.01.2018 to 06.01.2020

Last Amended on 28.05.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	WATER			
1.	Surface & Ground Water Drinking water Packaged Natural Mineral Water Packaged Drinking Water	Color	Standard Methods – APHA 22 nd Ed. 2120 B, Pg. 2 – 6 Visual comparison Method	1 to 10 Pt.Co.Sc.
		pH	Standard Methods – APHA 22 nd Ed. 4500 H, Pg. 4 – 91 & IS 3025 (Part 11):1983 (RA 2012) Electrometric Method	4 to 10
		Temperature	Standard Methods – APHA 22 nd Ed. 2550 B, Pg. 2 – 69 & IS 3025 (Part 9):1984 (RA 2006) (1 st Rev) By Mercury filled Thermometer	20° C to 50° C
		Turbidity	Standard Methods – APHA 22 nd Ed. 2130 B, Pg. 2 – 13 & IS 3025 (Part 10):1984 (RA 2012) Nephelometric Method	2 to 1000 NTU
		Electrical Conductivity	IS 3025 (Part 14): 1984 (1 st Rev) (RA 2013)	1 to 1999 µS/cm
		Total Solids(Dissolved & Suspended)	Standard Methods – APHA 22 nd Ed. 2540 B, Pg. 2 – 64 &	4 to 1000 mg/L

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Program Director

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			IS 3025 (Part 15): 1984 (1 st Rev) (RA 2014) Gravimetric Method	
		Total Suspended Solids	Standard Methods – APHA 22 nd Ed. 2540 D, Pg. 2 – 66 & IS 3025 (Part 17): 1984 (1 st Rev) (RA 2012) Gravimetric Method	4 to 1000 mg/L
		Total Dissolved Solids	Standard Methods – APHA 22 nd Ed. 2540 C, Pg. 2 – 65 & IS 3025 (Part 16):1984 (1 st Rev) (RA 2012) Gravimetric Method	4 to 1000 mg/L
		Inorganic Solids	Standard Methods – APHA 22 nd Ed. 2540 E Pg 2 – 67 & IS 3025 (Part 18) : 1984 (1 st Rev) (RA 2012) Gravimetric Method	4 to 1000 mg/L
		Organic Solids	Standard Methods – APHA 22 nd Ed. 2540 E, Pg. 2 – 67 & IS 3025 (Part 18) :1984 (1 st Rev) (RA 2012) Gravimetric Method	4 to 1000 mg/L
		Total Hardness	Standard Methods – APHA 22 nd Ed. 2340 C, Pg. 2 – 44 EDTA Titrimetric Method	2 to 500 mg/L
		Acidity	IS 3025 (Part 22):1986 (1 st Rev) (RA 2014) Indicator Method	5 to 100 mg/L

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		Alkalinity	IS 3025 (Part 23):1986 (1 st Rev) (RA 2014) Indicator Method	5 to 500 mg/L
		Sulphate	Standard Methods – APHA 22 nd Ed 4500 E, Pg. 4 – 190 Turbidity Method	2 to 200 mg/L
		Phosphate	Standard Methods – APHA 22 nd Ed. 4500 D, Pg. 4 – 154 Stannous chloride Method	0.02 to 15 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2012)	2 to 500 mg/L
		Dissolved Oxygen (DO)	Standard Methods – APHA 22 nd Ed. 4500 C, Pg. 4 – 139 & IS 3025 (Part 38) (RA 2014)	1 to 15 mg/L
		Calcium as Ca	Standard Methods – APHA 22 nd Ed. 3500 B, Pg. 3 – 67. EDTA Titrimetric Method	2 to 250 mg/L
		Chloride	Standard Methods – APHA 22 nd Ed. 4500 Cl B, Pg. 4 – 72 & IS 3025 (Part 32): 1988 (RA 2014)	1 to 500 mg/L
		Magnesium as Mg	Standard Methods – APHA 22 nd Ed 3500 Mg B, Pg. 3 – 84	2 to 200 mg/L
		Residual Chlorine	IS 3025 (Part 26)(RA 2014)	0.1 to 1 mg/L
		Copper	Standard Methods – APHA 22 nd Ed 3500 Cu B, Pg 3 -74 &	0.02 to 10 mg/L

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			3111 B/C, Pg 3 – 20 & IS: 3025 (Part 42):1992 (RA 2014)	
		Biological Oxygen Demand	IS 3025 (Part 44): 1993 (1 st Rev) (RA 2014) BOD 3 Days at 27° C	4 to 200 mg/L
		Carbonate & Bicarbonate	IS 3025(Part 51): 2001 (RA 2012) Calculation Method	5 to 100 mg/L
		Chromium (Hexavalent)	Standard Methods – APHA 22 nd Ed 3500 Cr B, Pg 3 - 69. Colorimetric Method. & IS 3025 (Part 52) : 2003 (RA 2014)	0.03 to 10 mg/L
		Iron	Standard Methods – APHA 22 nd Ed 3500 Fe B, Pg.3 – 76	0.02 to 15 mg/L
		Nitrate	IS 3025 (Part 34): 1988 (RA 2014) Chromo tropic Acid method	0.1to 50 mg/L
		Nitrite	Standard Methods – APHA 22 nd Ed. 4500 NO ₂ , Pg. 4 – 120	0.1to 10 mg/L
		Sodium	Standard Methods – APHA 22 nd Ed. 3500 Na. B, Pg. 3 – 97. Flame Emission Photometric Method	2 to 100 ppm
		Anionic Surface Active Agents (MBAS)	Standard Methods – APHA 22 nd Ed, 5540 C., Pg 5 – 53. Colorimetric Method & IS- 13428 Annex K	0.01 to 5 mg/l

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		Potassium	Standard Methods – APHA 22 nd Ed. 3500 K B, Pg. 3 -87 Flame Emission Photometric Method	2 to 100 ppm
		Boron	Standard Method – APHA 22 nd Ed 4500 B, Pg 4 – 25.	0.01to 10 mg/L
		Cyanide	Standard Methods – APHA 22 nd Ed 4500 E, Pg. 4-44 Colorimetric Method	0.03 to 10 mg/L
		Phenol	Standard Methods – APHA 22 nd Ed 5530 D, Pg. 5 – 49.Direct Photometric Method	0.001to 5 mg/L
		Fluoride	Standard Methods – APHA 22 nd Ed 4500-F D, Pg. 4-87 SPANDS Method.	0.05 to 10 mg/L
		Zinc	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3-18 (Air Acetylene Flame)	0.1 to 10 mg/L
		Cadmium	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3-18 (Air Acetylene Flame)	0.008 to 5 mg/L
		Cobalt	Standard Methods – APHA 22 nd Ed. 3111B, Pg.3-18 (Air Acetylene Flame)	0.05 to 10 mg/L
		Mercury	Standard Methods – APHA 22 nd Ed 3112 A & B Pg. 3-23 (Flameless Cold Vapor)	0.01 to 2.0 mg/L

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		Arsenic	Standard Methods – APHA 22 nd Ed 3114 C, Pg. 3-38 (Continuous Hydride Mode)	0.01 to 2 mg/L
		Antimony	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3-19 (Continuous Hydride Mode)	0.07 to 2 mg/L
		Selenium	Standard Methods – APHA 22 nd Ed 3114 C, Pg 3-38 (Continuous Hydride Mode)	0.008 to 1 mg/L
		Silver	Standard Methods – APHA 22 nd Ed. 3111B, Pg 3-18	0.01 to 2 mg/L
		Lead	Standard Methods – APHA 22 nd Ed. 3111B, Pg 3-18	0.05 to 10 mg/L
		Barium	Standard Methods – APHA 22 nd Ed 3111 D, Pg 3-21 (Direct nitrous Oxide Oxide-Acetylene Flame method)	0.5 to 5 mg/L
		Chromium Total	Standard Methods – APHA 22 nd Ed. 3111B, Pg 3-18 & IS 3025 (Part 52): 2003 (RA 2014)	0.02 to 10 mg/L
		Silica	Standard Methods – APHA 22 nd Ed. 4500 D, Pg. 4 –169 Heteropoly Blue Method	0.12 to 10 mg/L
		Aluminum	Standard Methods – APHA 22 nd Ed. 3500 B, Pg. 3-61 &	0.1 to 25 mg/L

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			IS 3025 (Part 55): 2003 (1 st Rev)	
		Manganese	Standard Methods – APHA 22 nd Ed. 3111 B, Pg. 3-18	0.04 to 10 mg/l
		Nickel	Standard Methods – APHA 22 nd Ed. 3111 B, Pg. 3-18	0.02 to 5 mg/l
		Molybdenum	Standard Methods – APHA 22 nd Ed. 3111 D, Pg. 3 – 21 (Direct Nitrous Oxide Oxide-Acetylene Flame method)	0.1 to 2.0 mg/l
		Odour	IS 3025 (Part 5) : 1983 (1 st Rev) (RA 2012)	–
		Taste	IS 3025 (Part 6 & 7) : 1984 (1 st Rev) (RA 2012)	–
		Chromium (Hexavalent)	Standard Methods – APHA 22 nd Ed 3500 Cr B, Pg 3 - 69. Colorimetric Method & IS 3025 (Part 52) : 2003 (RA 2014)	0.03 to 10.0 mg/l
		Mineral Oil	ASTM D 7066-04	> 0.3 mg/L
		Ammonia as (Total ammonia -N mg/L)	IS 3025 (Part - 34) (RA 2014)	0.1 to 15.0 mg/L
II.	ATMOSPHERIC POLLUTION			
1.	Ambient air	Sulphur Dioxide	IS 5182 (Part 2) : 2001 (RA 2012)	6 to 750 µg/m ³
		RSPM(PM ₁₀)	IS 5182 (Part 23): 2006 (RA 2012)	8.0 to 1500 µg/m ³
		Oxides Of Nitrogen	IS 5182 (Part 6): 2006 (RA 2012)	6.0 to 750 µg/m ³

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		Hydrogen Sulphide	IS 5182 (Part 7) : 1973 (RA 2014)	5 to 500 µg/m ³
		Mercaptan	SOP-DCPL/AAQ/Mer/006 /Rev No .01/Eff. dt 01.09.17	5 to 100 µg/m ³
		Fine Particulate matter (PM _{2.5})	USEPA Quality Assurance Handbook , Vol. II, Part – II, Quality Assurance Guidance Document 2.12, Nov 1998	8.0 to 500 µg/m ³
		Ammonia	SOP-DCPL/AAQ/NH3/018 /Rev.No.01/Eff. dt : 01.09.17	20.0 to 100 µg/ m ³
		Ozone	IS 5182 (Part 9):1974 (RA 2014)	20.0 to 500 µg/m ³
		Lead	IS 5182 (Part 22): 2004 (RA 2014)	0.05 to 100 µg/m ³
		Nickel	SOP:DCPL/AAQ/Ni/013 /Rev.N0.01/Eff.dt.01.09.17 (FLAAS – AA Method)	3 ng/m ³ to 100 ng/m ³
		Arsenic	SOP:DCPL/AAQ/As/015/ Rev.N0.01/Eff.dt.01.09.17 (AA– hydride Method)	5 to 100 ng/m ³
		Carbon monoxide	IS 5182 (Part10) : 1999 (RA 2014)	1.0 to 50 mg/ m ³
		Free Chlorine	SOP:DCPL/AAQ/F.Cl/009 /Rev.N0.01/Eff.dt.01.09.17	3 to 50 µg/ m ³
		Carbon disulphide	IS 5182 (Part 20) : RA 2009	2.5 to 100 µg/ m ³
		Benzo (a) Pyrene	IS 5182 (Part 12) (RA 2014)	0.5 to 5.0 ng/ m ³
		Tin	SOP-DCPL/AAQ/Sn/022 /Rev.N0.01/Eff.dt.01.09.17	0.5 to 100 µg/ m ³

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			7 (NAAAS – AAS Method)	
		Vanadium	SOP-DCPL/AAQ/V/024 / Rev.N0.01/Eff.dt.01.09.17 (NAAAS – AAS Method)	1 to 10 µg/ m ³
		Cadmium	SOP-DCPL/AAQ/Cd/014 /Rev.N0.01/Eff.dt.01.09.17 (FAAAS – AAS Method)	0.5 to 5 µg/ m ³
		Mercury	SOP-DCPL/AAQ/Hg/019 /Rev.N0.01/Eff.dt.01.09.17 (AAS Hydride Method)	0.5 to 5.0 µg/ m ³
		VOC	SOP-DCPL/AAQ/VOC/023 /Rev.N0.01/Eff.dt.01.09.17	0.4 to 2000 µg/ m ³
		Methane Hydrocarbons	IS 5182: (Part XVII) :1979	0.5 to 50.0ppm
		Carbon Dioxide	SOP-DCPL/AAQ/CO2/027 /Rev.N0.01/Eff.dt.01.09.17	1.0to 500.0 ppm
		BTX (Benzene, Toluene , Xylene	IS – 5182 (Part – 11) : 2006 (RA 2012)	1-50 µg/ m ³
2.	STACK EMISSION	Particulate Matter (PM)	IS 11255 (Part 1) : 1985 (RA 2014)	5 to 1000 mg/ Nm ³
	A) At Laboratory	Sulphur dioxide as SO ₂	IS 11255 (Part 2) : 1985 (RA 2014)	5 to 500 mg/Nm ³
		Oxides of Nitrogen as NO _x	IS 11255 (Part 7) : 2005 (RA 2012)	4 to 500 mg/ Nm ³
		Hydrogen sulphide as H ₂ S	IS 11255 (Part 4) : 2006 (RA 2012)	1.5 to 140 mg/ Nm ³
		Carbon Disulphide as CS ₂	IS 11255 (Part 4) : 2006 (RA 2012)	3.0 to 310 mg/ Nm ³
		Ammonia as NH ₃	IS 11255 (Part 6) : 1999 (RA 2014)	10 to 1000 mg/ Nm ³
		Hydrogen Chloride as HCl	EPA – 26 A	2 to 20 mg/ Nm ³
		Free Chlorine	SOP - DCPL/SM/F.Cl/009 (dt. 25-01-2013)	1.0 to 10.0 mg/m ³

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	B) At Site	Velocity	IS 11255 (Part 3) : 2008	03 to 60.0 m/s
		Flow rate	IS 11255 (Part 3) : 2008	≤ 30.0 Nm ³ /hr
III.	SOIL			
1.	Soil	pH @ 25°C	SOP:DCPL/SO/pH/001/Rev. No.03/Eff.Dt.01.09.2017	1to 14
		EC @ 25°C	SOP/DCPL/SO/ Conductivity/003/ Rev.No.01/Eff. Dt.01.09.2017	1.0 to 2500 µS/cm
		Moisture Content	SOP: DCPL/SO/Moisture CONTENT/009/Rev.No.03/E ff.Dt. 01.09.2017	0.1 to 50.0 %
		Specific Gravity@ 27°C	IS 2720 (Part III/Sec2) - 1980	1 to 3
		Bulk Density	SOP:DCPL/SO/Bulk Density/005/Rev.No.03/Eff.D t. 01.09.2017	1 to 2 g/cm ³
		Calcium as Ca	DCPL/SO/Calcium/017A/ Rev No .03/Eff.Dt 01.09.17	10 to 1000 mg /kg
		Exchangeable Calcium plus Magnesium as Mg	DCPL/SO/Exchangeable Calcium & Magnesium/017/Rev No.03/Eff.Dt 01.09.17	10 to 1000 mg /kg
		Total Alkalinity as CaCO ₃	DCPL/SO/Alk/004/Rev No .01/Eff.Dt 01.09.17	10 to 1000 mg /kg
		Chlorides	DCPL/SO/Cl/014/Rev No .01/Eff.Dt 01.09.17	10 to 1000 mg /kg
		Available Sulphur	SOP :DCPL/SO/Sulphur as Sulphate/ 018/Rev.No.03/Eff. Dt.01.09.17	10 to 1000 mg /kg

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		Total Kjeldahl Nitrogen as N	SOP :DCPL/SO/Nitrogen/012/ Rev.No 03/Eff.Dt 01.09.17	10 to 1000 mg/kg
		Nitrate Nitrogen as NO ³ - N	SOP: DCPL/SO/Nitrate/011/ Rev.No.03/Eff.Dt.01.09.17.	10 to 1000 mg/kg
		Total Phosphate as PO ₄	IS 10158 : 1982 (RA 2009)	1.0 to 500 mg/kg
		Total Iron as Fe	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	10 to 1000 mg /kg
		Organic Carbon	SOP:DCPL/SO/OM & OC/013/Rev. No.03/Eff.Dt 01.09.17	0.01 to 5 %
		Cadmium as Cd	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	1 to 1000 mg /kg
		Copper as Cu	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg
		Exchangeable Sodium as Na	SOP: DCPL/SO/Na & K/016/ Rev.No.01/Eff.Dt.01.09.17.	10 to 1000 mg /kg
		Exchangeable Potassium	SOP: DCPL/SO/Na & K/016/ Rev.No.01/Eff.Dt.01.09.17	10 to 1000 mg /kg
		Nickel as Ni	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg

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		Manganese as Mn	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg
		Mercury as Hg	EPA 7471B (February 2007 Rev 02), EPA 3051A	1.0 to 1000 mg /kg
		Lead as Pb	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg
		Chromium as Cr	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg
		Zinc as Zn	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg /kg
		Cation Exchange Capacity (CEC)	EPA 9080 (Sep 1986 Rev 0), EPA 9081 (Sep 1986 Rev 0)	3 to 100 meq/100g
		Cobalt as Co	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg / kg
		Silver as Ag	EPA 3050B (Dec 1996 Rev 2), EPA 3051A (Feb 2007 Rev 01) & EPA 7000B (January 2007, Rev 02)	5 to 1000 mg / kg

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		Arsenic as As	EPA 3051A (Feb 2007 Rev 01), EPA 7062 (Sep 1994 Rev 00)& EPA 7061A (July 1992 Rev 01)	1 to 100 mg / kg
		Selenium as Se	EPA 3051A (Feb 2007 Rev 01) , EPA 7741 A (Sep 1994 Rev 01) & EPA 7742 (Sep 1994 Rev 01)	1 to 100 mg / kg
		Antimony as Sb	EPA 3051A (Feb 2007 Rev 01) , EPA 3050A (July 1992 Rev 1) & EPA 7062 (Sep 1994 Rev 00)	1 to 100 mg / kg
		Molybdenum as Mo	EPA 3051A (Feb 2007 Rev 01) , EPA 3050A (July 1992 Rev 1) & EPA 7062 (Sep 1994 Rev 00)	1 to 100 mg / kg
		Oil & Grease	EPA 9071B (April 1998 Rev 2)	5 to 1000 mg/kg >5000 mg/kg
		Available Zinc As Zn	SOP: DCPL/SO/Available Zinc/022/Rev.No.00/10.05.2017	0.5 to 5 mg/kg >5 mg/kg
		Available Copper as Cu	SOP: DCPL/SO/Available Copper/023/Rev.No.00/10.05.2017	0.5 to 3 mg/kg >3 mg/kg
		Available Iron as Fe	SOP :DCPL/SO/Available Iron/024/Rev.No 00/Eff. Dt 10.05.2017	1 to 10 mg/kg >10 mg/kg
		Available Manganese as Mn	SOP :DCPL/SO/Available Manganese /025/Rev.No.00/Eff. Dt.10.05.2017	0.5 to 6 mg/kg >6 mg/kg
		Available Phosphorous	SOP: DCPL/SO/Available Phosphorous /028A & B/Rev.No 00/Eff. dt :10.05.2017	> 5.2 kg/Ha

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		Available Potassium	SOP: DCPL/SO/Available Potassium/030/Rev.No.00/ Eff.dt 10.08.2017.	10 to 1000 kg/ha
		Available Boron As B	SOP: DCPL/SO/Available Boron/026/Rev.No.03/Eff.Dt 01.09.17	1.0 to 100 mg / kg
IV.	POLLUTION & ENVIRONMENT			
1.	Wastewater (Sewage & Liquid Effluents)	pH	Standard Methods – APHA 22 nd Ed. 4500, Pg. 4 – 91 & IS 3025 (Part 11):1983(RA 2012) Electrometric Method	1 to 14
		Chloride	Standard Methods – APHA 22 nd Ed. 4500 Cl. B, Pg 4 –72 IS 3025 (Part 32):1988 (RA 2014)	4 to 1000 mg/L
		Dissolved Oxygen (DO)	Standard Methods – APHA 22 nd Ed. 4500 C, Pg 4 – 139. IS 3025 (Part 38) : (RA 2014)	1 to 10 mg/L
		Oil & grease	Standard Methods – APHA 22 nd Ed. 5520 – B, Pg 5 – 38 & IS 3025 (Part 39):1991 (1 st Rev) (RA 2014) Partition Gravimetric Method	4 to 100 mg/L
		Biological Oxygen Demand	IS 3025 (Part 44) – 1993 (1 st Rev)(RA 2014) BOD 3 Days at 27° C.	2 to 1000 mg/L

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphate	IS 3025 (Part 24):1986 (1 st Rev.) (RA 2014) Turbidity Method	2 to 1000 mg/L
		Phosphate	Standard Methods – APHA 22 nd Ed. 4500 P .D, Pg. 4-154. Stannous chloride Method	1.0 to 50 mg/L
		Sodium	Standard Methods – APHA 22 nd ED 3500 - Na. B, Pg 3 -97. Flame Emission	2 to 200 mg/l
		Potassium	Standard Methods – APHA 22 nd ED 3500 – K B., Pg 3 -87. Flame Emission Photometric Method	2 to 100 mg/l
		Volatile And fixed Residue	Standard Methods – APHA 22 nd Ed 2540 E, Pg 2 – 67 & IS 3025 (Part 18): 1984 (1 st Rev) (RA 2012)	4 to 1000 mg/L
		Temperature	Standard Methods – APHA 22 nd Ed., 2550 B., Pg 2 – 69 & IS 3025 (Part 9):1984 (RA 2006) (1 st Rev) By Mercury filled Thermometer	20 ° C to 50 ° C
		Cobalt	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18	0.1 to 10 mg/L
		Zinc	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18	0.1 to 10 mg/L

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18	0.01 to 5 mg/L
		Mercury	Standard Methods – APHA 22 nd Ed. 3112 A & B, Pg. 3 – 23 Flameless (cold vapor) AAS Method	0.01 to 5 mg/L
		Arsenic	Standard Methods – APHA 22 nd Ed. 3114 C, Pg. 3 – 38 (Continuous Hydride Mode AAS -203)	0.1 to 10 mg/L
		Antimony	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18 (Hydride AAS Method)	0.1 to 5 mg/L
		Selenium	Standard Methods – APHA 22 nd Ed. 3114 C, Pg 3 – 38 (Hydride AAS Method)	0.1 to 5 mg/L
		Silver	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18.	0.1 to 5 mg/L
		Lead	Standard Methods – APHA 22 nd Ed. 3111B, Pg. 3 – 18.	0.05 to 10 mg/L
		Manganese	Standard Methods – APHA 22 nd Ed. 3111 B, Pg. 3-18.	0.1 to 10 mg/l
		Nickel	Standard Methods – APHA 22 nd Ed. 3111 B, Pg. 3-18.	1 to 10 mg/L
		Barium	Standard Methods – APHA 22 nd Ed. 3111 D, Pg. 3-21 (Direct nitrous Oxide Oxide-Acetylene Flame method)	0.5 to 10 mg/L
		Tin	Standard Methods –	2.2 mg/L

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			APHA 22 nd Ed. 3111 B, Pg 3 – 19 (Direct Air – Acetylene Method)	
		Molybdenum	Standard Methods – APHA 22 nd Ed. 3111 D, Pg. 3 – 21 (Direct nitrous Oxide – Acetylene Flame Method)	0.1 to 2.0 mg/l
		Residual Chlorine	IS 3025 (Part 26)(RA 2014)	0.1 to 1 mg/L
		Iron	Standard Methods – APHA 22 nd Ed. 3500 Fe B Pg. 3 – 76.	0.1 to 15 mg/L
		Vanadium	Standard Methods – APHA 22 nd ED 3500 V B, Pg 3 – 101 & 3111 D, Pg. 3 – 21 (Direct Nitrous Oxide – Acetylene Flame Method)	0.1 to 50 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2012)	2 to 10000 mg/L
		Cyanide	Standard Methods – APHA 22 nd Ed. 4500 E, Pg. 4 – 44, Colorimetric Method	0.03 to 10 mg/L
		Fluoride	Standard Methods – APHA 22 nd Ed, 4500 D, Pg. 4 – 87 SPADNS Method	0.05 to 10 mg/L
		Boron	Standard Methods – APHA 22 nd Ed. 4500 B., Pg. 4 – 25.	0.1to 10 mg/L
		Phenol	Standard Methods – APHA 22 nd Ed. 5530 D., Pg 5 – 49.	0.1to 10 mg/L

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			Direct Photometric Method	
		Aluminum	Standard Methods – APHA 22 nd Ed. 3500 B. Pg 3 – 61 & IS 3025 (Part 55) 2003 (1 st Rev)	0.1-10 mg/L
		Silica	Standard Methods – APHA 22 nd ED. 4500 D, Pg. 4 – 169 Heteropoly Blue Method	0.12 to 20 mg/L
		Color	Standard Methods – APHA 22 nd Ed. 2120 B, Pg. 2 – 6 Visual comparison Method	1 to 10 Color Unit
		Nitrite	Standard Methods – APHA 22 nd Ed. 4500 NO ₂ , Pg 4 – 120	0.05 to 10 mg/L
		Nitrogen (Ammonia)	Standard Methods – APHA 22 nd Ed. 4500 NH ₃ , B & C, Pg. 4 – 110, 112 Titrimetric Method	1 to 15 mg/l
		Total Kjeldhal Nitrogen	Standard Methods – APHA 22 nd Ed. 4500 – NH ₃ B & C, Pg 4 – 131	1 to 15 mg/l
		Nitrate	IS 3025(Part 34): 1988 Chromo tropic Acid method	1 to 500 mg/L
		Chromium Total	Standard Methods – APHA 22 nd Ed. 3111B, Pg 3-18 & IS 3025 (Part 52): 2003 (RA 2014)	0.1 to 10 mg/L
		Copper	Standard Methods – APHA 22 nd Ed 3500 – Cu, B, Pg. 3 – 74 (Neo	0.1 to 10 mg/L

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			cuprine method) & 3111 B/C, Pg. 3 – 18 to 20 & IS 3025 (Part 42): 1992 (RA -2003)	
		Chromium (Hexavalent)	Standard Methods – APHA 22 nd Ed 3500 Cr – B, Pg. 3 – 69. Colorimetric Method & IS 3025 (Part 52) : 2003	0.03 to 10 mg/l
2.	Wastes (Slurry/ Sludge/ Solid/ Semi-Solid)	pH	EPA 9041 A (July 1992 Rev 01)	1 to 14
		Paint Filter Liq. Test (PFLT)	EPA 9095 B (Nov 2004 Rev 02)	Qualitative
		Cyanide	Standard Method: APHA 22 nd Ed 4500 E. Pg no: 4-44, Colorimetric Method (SOP- DCPL/HW/HCN/14 dt. 05.01.15)/ EPA 9014 (July 14 Rev 01)	0.03 to 10 mg/L
		Sulphide	Standard Methods: APHA 22 ND ED 4500-J .4-184 .(SOP- DCPL/HW/S/15 dt. 05.01.15)	0.5 to 25.0 mg/l
		Oil & Grease	EPA 9071B (April 1998 Rev 2)	5 to 1000 mg/kg >5000 mg/kg
		Moisture Content at 105 °C for Solid Waste	SOP: DCPL/HW/Moisture/007(A)/ Rev No .00 /Eff.dt. 05.01.15	0.1 to 99 %
		Moisture Content by Karl Fisher for Liquid Waste	EPA 9000 (Feb 2007 Rev 00) (SOP:DCPL/HW/Moisture/	0.1 to 99 %

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			007(B)/Rev.No .00/Eff.Dt 05.01.15	
		Loss on Ignition at 550 °C	Standard Methods – APHA 22 nd Ed. 2540 G, Pg. 2 – 68	0.1 to 99 %
		Ash Content at 900 °C	Standard Methods – APHA 22 nd ED 2540 G, Pg. 2 – 68	0.1 to 99 %
		Calorific Value	IS 1350(Part 2) : 1977 (RA 2015)	200.0 to 10000.0 kcal/kg
		Chloride	Standard Methods – APHA 22 nd Ed. 4500 Cl. B, Pg 4 – 72 & IS 3025 (Part 32) : 1988 (RA 2014) Argentometric Titration	4.0 to 100000.0 mg/l
		Arsenic(As)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.1 to 10 mg/l
		Lead (Pb)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff.dt. 05.01.15)	0.1 to 10 mg/l
		Cadmium (Cd)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/ Eff.dt. 05.01.15)	0.1 to 10 mg/l
		Chromium (Cr)	Extraction By TCLP USEPA: 1311 /(SOP -DCPL/HW/Meta HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.1 to 10 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Copper (Cu)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff.dt. 05.01.15)	0.1 to 10 mg/l
		Nickel (Ni)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00 /Eff. dt. 05.01.15)	0.1 to 20 mg/l
		Mercury (Hg)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff.dt. 05.01.15)	0.1 to 10 mg/l
		Zinc (Zn)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No 00./Eff.dt. 05.01.15)	0.5 to 10 mg/l
		Cobalt (Co)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.5 to 10 mg/l
		Manganese (Mn)	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3 /Rev.No.00/Eff. dt. 05.01.15)	0.5 to 10 mg/l
		Total Phenol	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.1 to 10 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fluoride	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.5 to 10 mg/l
		Ammonia	Extraction By TCLP USEPA: 1311 / (SOP -DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. 05.01.15)	0.1 to 10 mg/l
		Nitrate	Extraction By TCLP USEPA: 1311 /Testing Method:IS 3025 :(Part – 34) 1988 (RA 2014) Chromo tropic Acid method	0.1 to 10 mg/l
		Chromium (Hexavalent)	Extraction By TCLP USEPA: 1311 /(SOP - DCPL/HW/Metal- HVG/17.3/Rev.No.00/Eff. dt. dt. 05.01.15)	0.3 to 10 mg/l
		Flash Point	IS 1448(Part 20) IS 1448(Part 21)	Ambient to 90° C 70 to 300°C
		Carbon	SOP-DCPL/HW/20 (Elemental analyzer – CHNS)	1 to 75 %
		Hydrogen		1 to 7.5 %
		Nitrogen		1 to 8.5 %
		Sulphur		1 to 7 %
V.	FERTILIZER			
1.	Organic Fertilizer	pH	Fertiliser (Control) Order 1985, Schedule IV, Part D (1).	1 to 14
		Moisture % By Weight	Fertiliser (Control) Order 1985, Schedule IV, Part D (2).	0.5 to 50.0 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Colour	Fertiliser (Control) Order 1985, Schedule IV, Part A (1).	-
		Odour	Fertiliser (Control) Order 1985, Schedule IV, Part A (1).	-
		Particle Size	Fertiliser (Control) Order 1985, Schedule IV, Part A (1).	1 to 100% mm
		Bulk Density	Fertiliser (Control) Order 1985, Schedule IV, Part D (3).	0.1 to 3 gm/cm ³
		Total Organic carbon % by weight	Fertiliser (Control) Order 1985, Schedule IV, Part D (5).	1.0 to 10%
		Total nitrogen(as N) % by Weight	Fertiliser (Control) Order 1985, Schedule IV, Part D (6).	0.10 to 10 %
		C: N ratio	Fertiliser (Control) Order 1985, Schedule IV, Part D (7).	Calculative
		Total Phosphates as P ₂ O ₅ % by weight	Fertiliser (Control) Order 1985, Schedule IV, Part D (8).	0.1 -10%
		Total Potassium as K ₂ O % by Weight	Fertiliser (Control) Order 1985, Schedule IV, Part D (9).	0.1 to 10%
		Electrical Conductivity	Fertiliser (Control) Order 1985, Schedule IV, Part D (4).	1.5 to 2500 dsm-1
		Arsenic as As ₂ O ₃	Fertiliser (Control) Order 1985, Schedule IV, Part D (12).	0.2 to 10 mg/kg
		Cadmium as Cd	Fertiliser (Control)	0.3 to 10 mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Order 1985, Schedule IV, Part D (10).	
		Chromium as Cr	Fertiliser (Control) Order 1985, Schedule IV, Part D (10).	2.0-50 mg/kg
		Copper as Cu	Fertiliser (Control) Order 1985, Schedule IV, Part D (10).	2.0 to 200 mg/kg
		Mercury as Hg	Fertiliser (Control) Order 1985, Schedule IV, Part D (11).	0.04-10 mg/kg
		Nickel As Ni	Fertiliser (Control) Order 1985, Schedule IV, Part D (10).	2.0 -50 mg/kg
		Lead as Pb	Fertiliser (Control) Order 1985, Schedule IV, Part D (10).	6.0 -50 mg/kg
		Zinc as Zn	Fertiliser (Control) Order 1985, Schedule IV, Part D (10).	2.5 -200 mg/kg
VI.	FOOD & AGRICULTURAL PRODUCTS			
	1. Jams, Juices, Sauces And Concentrates			
(a)	Tomato Ketchup	Total Soluble Solids(m/m) salt free basis	Fssai – Manual of Methods of Analysis of Foods – Fruits and Vegetable products 2016, Cl 12.1, Pg no .42 & IS 3882:1986 (RA 2010)	> 1.0 %
		Benzoic Acid	Fssai – Manual of Methods of Analysis of Foods – Food Additives 2016, Titrimetric Method. Cl.2.1.2.1 ,Pg no.5 & IS 12014:2012 (Part 1)	>120 mg/kg
		Sorbic Acid	Fssai – Manual of Methods	>25.63 mg/kg

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			of Analysis of Foods – Food Additives 2016 Spectrophotometric Method Cl.2.2.2.1 ,Pg no.15 & IS 12014:2012 (Part -3)	
(b).	Jam	Total Soluble Solids % (m/m)	Fssai– Manual of Methods of Analysis of Foods – Fruits and Vegetable products 2016,Cl.16.1,Pg no.50 & IS 13815: 2010 (RA 2015)	>3.0 %
		Ascorbic Acid	Fssai - Manual of Methods of Analysis of Foods – Food Additives 2016,Cl.2.8,Pg no.21.	> 2.0 mg/100g
(C).	Mango Juice	Total Soluble Solids % m/m	Fssai - Manual of Methods of Analysis of Foods – Fruits and Vegetable products 2016,Cl 3.1,Pg no.33 & 13815 :2010 (RA 2010)	> 3.0 %
		Total Sugar As Sucrose % m/m	Fssai - Manual of Methods of Analysis of Foods – Fruits and Vegetable products 2016,Cl 2.6,Pg no. 15. & IS 6287 : 1985(RA 2010)	> 0.5 %
2.	Edible Oils & Fats			

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	Cotton seed oil Groundnut oil Mustard oil Sunflower oil Til oil Soyabean oil (Phosphorus) Palm oil Rice Bran oil Maize Oil Coconut, Sesame, Maize, Almond Safflower oil	Iodine value	Fssai - Manual of Methods of Analysis of Foods – Oils & Fats 2016, Cl.12.0, Pg no.26 & IS 548(Part 1): 1964 (RA 2015)	> 2.5
3.	Herbs, Spices & Condiments			
	Whole /Powder Carway, Cardamom Chillies & Capsicum Cinnamon, Cassia Cloves, Coriander Cumin, Fennel, Fenugreek, Ginger Mace, Mustard Nutmeg Pepper Black Pin Heads	Moisture % by wt	Fssai - Manual of Methods of Analysis of Foods – Spices & Condiments 2016, Cl.3.0 -Dean & Stark Toluene distillation Method, Pg no. 2 / IS 1797 : 1985 (RA 2003)	>1%
	Poppy Saffron Turmeric Curry Powder Mixed Masala Anissed Ajwain Pepper White	Total ash on dry basis % by wt	Fssai - Manual of Methods of Analysis of Foods – Spices & Condiments 2016, Cl.4.0, Pg no.12/ IS 1797 : 1985 (RA 2003)	> 0.05 %
		Acid Insoluble Ash % by wt	Fssai - Manual of Methods of Analysis of Foods – Spices & Condiments 2016, Cl 5.0 ,Pg no.14/ IS 1797 : 1985 (RA 2003)	>0.05 %
4.	TEA			

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	Tea	Moisture	Fssai Manual of Methods of Analysis of Foods - Beverages & Confectionary 2012, Cl. 5.2, Pg no 24.	> 0.1 %
		Total Ash % m/m	Fssai Manual of Methods of Analysis of Foods - Beverages & Confectionary 2012, Cl. 5.3, Pg no.24.	> 0.1 %
VII.	RESIDUE IN FOOD PRODUCTS			
	1.Trace Metal Elements			
	Milk & Milk products, Jams, Juices, Sauces & Concentrates, Edible Oils & Fats, Herbs, Spices & Condiments, Bakery & Confectionery Products , Cereal , Pulses & Cereal Products, & Tea	Manganese	SOPDCPL/LQMS/P11/WI -01(FOOD),Rev.No 00, Eff.dt 23.01.2017	0.5 to 1.0 mg/kg
		Nickel		0.5 to 4.0 mg/kg
		Cadmium		1.0 to 10.0 mg/kg
		Lead		1.0 to 10.0 mg/kg
		Mercury		1.0 to 5.0 mg/kg
		Copper		1.0 to 5.0 mg/kg
		Zinc		0.5 to 2.0 mg/kg
		Arsenic		0.5 to 5.0 mg/kg
		Iron		1.0 to 4.0 mg/kg
		Magnesium		1.0 to 4.0 mg/kg
		Sodium		1.0 to 4.0 mg/kg
		Potassium		1.0 to 4.0 mg/kg
	Calcium	1.0 to 4.0 mg/kg		
	Cephalopods	Cadmium	SOPDCPL/LQMS/P11/WI -01(FOOD),Rev.No	1.0 to 10.0 mg/kg

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			00, Eff. dt 01.09.2017	
	2. Antibiotics			
	Prawn & Prawn Products, Shrimps	Nitrofurans-Metabolites (AOZ, SEM, AMOZ, AHD)	SOP-DCPL/LQMS/P11/28 (Dt.01.09.2017)	Present/Absent
		Chloramphenicol (CAP)d		Present/Absent