Laboratory	**TUV SUD South Asia Pvt. Ltd., C-153/1, Okhla Industrial Estate, Phase-1, New Delhi**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Chemical Testing**	**Issue Date**	**09.11.2015**
Certificate Number	**T-1299**	**Valid Until**	**08.11.2017**
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	**POLLUTION & EFFLUENT**			
1.	**Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water**	Acidity	APHA (22nd Edition) 2310 B: 2102	1.00 mg/l to 1000.00 mg/l
		Alkalinity	APHA (22nd Edition) 2320 B: 2012	1.00 mg/l to 1000.00 mg/l
		Ammonical Nitrogen	APHA (22nd Edition) 4500 NH_3 B, C: 2012	1.0 mg/l to 100.00 mg/l
		Biochemical Oxygen Demand (BOD)	APHA (22nd Edition) 5210 B: 2012	5.0 mg/l to 15000.0 mg/l
		Calcium	APHA (22nd Edition) 3500 Ca B: 2012	1.0 mg/l to 5000.00 mg/l
		Chemical Oxygen Demand (COD)	APHA (22nd Edition) 5220 B: 2012	5 mg/l to 50000 mg/l
		Chloride	APHA (22nd Edition) 4500 Cl- B: 2012	1.0 mg/l to 3000.00 mg/l
		Chlorine Residual	APHA (22nd Edition) 4500 Cl B: 2012	0.10 mg/l to 10.00 mg/l
		Chromium (Hexavalent)	APHA (22nd Edition) 3500 - Cr B: 2012	0.10 mg/l to 100.00 mg/l
		Colour	APHA (22nd Edition) 2120 B: 2012	2 Hazen to 500 Hazen
		Electrical Conductivity	APHA (22nd Edition) 2510 B: 2012	1.0 µs/cm to 35000.0 µs/cm

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water	Dissolved Oxygen (DO)	APHA (22nd Edition) 4500 O B,C: 2012.	1.0 mg/l to 15.00 mg/l
		Fluoride	APHA (22nd Edition) 4500 F- B, D: 2012	0.1 mg/l to 10.00 mg/l
		Hardness	APHA (22nd Edition) 2340 C: 2012.	1.00 mg/l to 5000.00 mg/l
		Iron	APHA (22nd Edition) 3500 - Fe B: 2012.	0.10 mg/l to 100.00 mg/l
		Magnesium	APHA (22nd Edition) 3500 Mg B: 2012.	1 mg/l to 3000 mg/l
		Nitrate Nitrogen (NO3)	APHA (22nd Edition) 4500 - B: 2012.	2.0 mg/l to 500.00 mg/l
		Nitrite Nitrogen (NO2)	APHA (22nd Edition) 4500 NO_2- B: 2012.	0.100 mg/l to 100.000 mg/l
		Odour	APHA (22nd Edition) 2150-B: 2012.	Qualitative
		Oil and Grease	APHA (22nd Edition) 5520-B: 2012.	2.0 mg/l to 1000.00 mg/l
		pH Value	APHA (22nd Edition) 4500 H^+ B: 2012.	1.00 - 14.00
		Phenolic Compounds as C6H5OH	APHA (22nd Edition) 5530 B,C,D: 2012.	0.01 mg/l to 50.00 mg/l
		Phosphate	APHA (22nd Edition) 4500-P B,C,D: 2012.	0.10 mg/l to 500.00 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water	Potassium	APHA (22nd Edition) 3500 - K B: 2012.	1.0 mg/l to 500.0 mg/l
		Sodium	APHA (22nd Edition) 3500 - Na B: 2012.	1.00 mg/l to 500.00 mg/l
		Sulphate	APHA (22nd Edition) 4500 SO_4^{2-} B; 4500 SO_4^{-2}-E: 2012.	1.00 mg/l to 1000.00 mg/l
		Taste	APHA (22nd Edition) 2160-B: 2012.	Qualitative
		Temperature	APHA (22nd Edition) 2550 B: 2012.	1.0 °C to 100.00 °C
		Total Dissolved Solids	APHA (22nd Edition) 2540 C: 2012.	5.00 mg/l to 25000.00 mg/l
		Total Kjeldahl Nitrogen (TKN)	APHA (22nd Edition) 4500 - Norg B: 2012.	1.00 mg/l to 100.00 mg/l
		Total Solids	APHA (22nd Edition) 2540 B: 2012.	5.00 mg/l to 25000.00 mg/l
		Total Suspended Solids	APHA (22nd Edition) 2540 D: 2012.	5.0 mg/l to 5000.0 mg/l
		Turbidity	APHA (22nd Edition) 2130B: 2012.	1.0 NTU to 400.0 NTU
		Antimony	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Aluminum	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water	Copper	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Cadmium	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Chromium	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Lead	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Manganese	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Nickel	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Silver	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Fixed Solids	APHA (22nd Edition) 2540-G: 2012 (Gravimetric Method)	2.0 mg/l to 5000 mg/l
		Volatile Solids	APHA (22nd Edition) 2540-G: 2012.	2.0 mg/l to 5000 mg/l
		Sulphite	APHA (22nd Edition) 4500-SO_3-B: 2012. (Titrimetric Method)	2.0 mg/l to 100 mg/l
		Silica	APHA (22nd Edition) 4500.SiO_2. C: 2012.	2.0 mg/l to 100 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water	Sulphide	APHA (22nd Edition) 4500-S_2- F: 2012. (Iodometric Method)	2.0 mg/l to 100 mg/l
		Mercury (Hg)	APHA (22nd Edition) 3120: 2012.	0.01 mg/l to 100 mg/l
		Zinc (Zn)	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Arsenic (As)	APHA (22nd Edition) 3120: 2012.	0.05 mg/l to 100 mg/l
		Beryllium (Be)	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Barium (Ba)	APHA (22nd Edition) 3120: 2012.	0.1 mg/l to 100 mg/l
		Selenium (Se)	APHA (22nd Edition) 3120: 2012.	0.05 mg/l to 100 mg/l
		Strontium	APHA (22nd Edition) 3120: 2012.	0.10 mg/l to 100 mg/l
		Cobalt (Co)	APHA (22nd Edition) 3120: 2012.	0.10 mg/l to 100 mg/l
		Tin as Sn	APHA (22nd Edition) 3120-B/3125-B: 2012	50 µg/l to 100 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	**Soil/ Sludge**	Moisture / Water Content	IS 2720 (Part 2): 1973 (RA 2002)	0.5 % to 95 %
		Organic Matter	IS 2720 (Part 22): 1972 (RA 1978)	0.025 % to 30 %
		Organic Carbon	IS 2720 (Part 22): 1972 (RA 1978)	0.025 % to 30 %
		Loss on Ignition	Lab Sop No-24-Rev. 1 (Sec I) dated. 4/10/2012 (Based on European standard TC WI: 2003 (E))	0.5 % to 50 %
		Calcium Carbonate	IS 2720 (Part 23): 1976 (RA 2006)	1.0 % to 90 %
		Cation Exchange Capacity	IS 2720 (Part 24) -1976 (RA 2005)	1 to 90
		pH value (1 : 2)	IS 2720 (Part 26): 1987 (RA 2002)/ IS 10158: 1982	1.0 to 14.0 pH
		Total Nitrogen	IS 14684: 1999 (RA 2005)/ IS 10158: 1982	20 mg/kg to 10000 mg/kg
		Electrical Conductivity (1 : 5)	IS 14767: 2000/ IS 14767: 2000	1.0 µs/cm to 35000 µs/cm
		Extractable Phosphorous	Lab Sop No-24 Rev. 1 (Sec II) dated. 4/10/2012 (Based on ICARDA Section 6.2 Page. 82 to 86)	1.0 mg/kg to 50000 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soil/ Sludge	Soluble Sodium	Lab Sop No-24 Rev. 1 (Sec VIII) dated. 4/10/2012 (Based on ICARDA Section 6.4 Page. 97 to 98)	5 mg /kg to 10000 mg/kg
		Soluble Potassium	Lab Sop No-24 Rev. 1 (Sec IX) dated. 4/10/2012 (Based on ICARDA Section 6.3.2 Page. 95 to 96)	5 mg /kg to 10000 mg/kg
		Soluble Calcium	Lab Sop No-24 Rev. 1 (Sec XIV) dated. 4/10/2012 (Based on ICARDA Section 6.5 Page. 99 to 101)	2.0 mg/kg to 10000 mg/kg
		Soluble Magnesium	Lab Sop No-24 Rev. 1 (Sec XV) dated. 4/10/2012 (Based on ICARDA Section 6.5 Page. 99 to 101)	2.0 mg/kg to 10000 mg/kg
		Chloride	Lab Sop No-24 Rev. 1 (Sec XVIII): 2012 (Based on ICARDA Section 6.7 Page. 104 to 105)	10 mg/kg to 50000 mg/kg
		Copper	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Iron	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Lead	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soil/ Sludge	Manganese	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Nickel	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Zinc	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Cadmium	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	1.0 mg/kg to 10000 mg/kg
		Mercury	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	1.0 mg/kg to 10000 mg/kg
		Selenium	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	1.0 mg/kg to 10000 mg/kg
		Arsenic	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	1.0 mg/kg to 10000 mg/kg
		Chromium	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
		Cobalt	USEPA 3050B/3051/3052 (1 to 12) Rev. 2: 1996	2.0 mg/kg to 10000 mg/kg
	Pesticides Residues in Soil			
		Polychlorinated biphenyl (PCB)		
		2,2,5,5- Tetrachlorobiphenyl (PCB52)	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Polychlorinated biphenyl (PCB)		
		2,2,4,5,5- Pentachlorobiphenyl (PCB 101)	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2,3,4,4,5- Pentachlorobiphenyl (PCB 118)	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2,2,3,4,4,5- Hexachlorobiphenyl (PCB 138)	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2,2,4,4,5,5-Hexachlorobiphenyle (PCB 153)	Lab SOP No. LAB_P(e)_ SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2,2,3,4,4,5,5- Heptachlorobiphenyl (PCB 180)	Lab SOP No. LAB_P(e)_ SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2,4,4- Trichlorobiphenyl (PCB28)	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Polyaromatic Hydrocarbon (PAH)		
		Acenaphthlyne	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Acenaphthlene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Fluorene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Phenanthrene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Anthracene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Fluoranthene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Pyrene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Benzo (alfa) Anthracene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Napthalene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Crysene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Benzo (b+k) fluranthene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Benzo (k) fluranthene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Benzo (alpha) Pyrene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Indeno (1,2,3-cd) Pyrene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dibenzo (a,h) anthracene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Benzo (g,h,i) perylene	Lab SOP No. LAB_P(e)_SOP_145-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Pesticides		
		Alachlor	LAB_P(e)_SOP_143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Atrazine	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Aldrin and dieldrin	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Alpha HCH	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Beta HCH	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Gamma HCH (Lindane)	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Butachlor	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Chlorpyrifos	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Delta HCH	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2-4 DDE	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		4-4 DDE	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2-4 DDD	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		4-4 DDD	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		2-4 DDT	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		4-4 DDT	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alpha Endosulphan	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Beta Endosulphan	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Endosulphan Sulphate	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Ethion	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Malathion	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Methyl Parathion	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Monocrotophos	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg
		Phorate	LAB_P(e)_SOP_143143-Rev. 00: 7/8/2015 Based on USEPA 1311/ USEPA 8270 D	1.0 mg/kg to 50 mg/kg

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	**WATER**			
1.	**Drinking Water/ Borewell/ Tubewell/ R.O Water**	Colour	IS 3025 (Part 4): 1983	2 Hazen to 500 Hazen
		Odour	IS 3025 (Part 5): 1983	Qualitative
		pH	IS 3025 (Part 11): 1983	1.00 to 14.00
		Taste	IS 3025 (Part 7 & 8): 1984	Qualitative
		Turbidity	IS 3025 (Part 10): 1984	1.0 NTU to 400.0 NTU
		Total Dissolved Solids	IS 3025 (Part 16): 1984	5.00 mg/l to 25000 mg/l
		Aluminum	IS 3025 (Part 2): 2004	0.01 mg/l to 50 mg/l
		Ammonia	IS 3025 (Part 34): 1988	0.10 mg/l to 100.00 mg/l
		Anionic Detergent (as MBAS)	IS 13428: 2005 Annexure K.	0.05 mg/l to 100.00 mg/l
		Barium	IS 3025 (Part 2): 2004	0.1 mg/l to 100 mg/l
		Boron	IS 3025 (Part 2): 2004	0.1 mg/l to 100 mg/l
		Calcium	IS 3025 (Part 40): 1991	1.0 mg/l to 5000.00 mg/l
		Chloramines	IS 3025 (Part 26): 1986	1.0 mg/l to 10.00 mg/l
		Copper	IS 3025 (Part 2): 2004	0.01 mg/l to 100 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986	0.10 mg/l to 10.00 mg/l
		Iron	IS 3025 (Part 2): 2004	0.10 mg/l to 100.00 mg/l
		Magnesium	IS 3025 (Part 46): 1994	1 mg/l to 3000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Manganese	IS 3025 (Part 2): 2004	0.05 mg/l to 100 mg/l
		Nitrate	APHA (22nd Edition) 4500 - B: 2012/IS 3025 (Part 34): 1988	1.0 mg/l to 500.00 mg/l
		Phenolic Compounds as C_6H_5OH	IS 3025 (Part 43): 1992	0.001 mg/l to 50.00 mg/l
		Fluoride	APHA (22nd Edition): 2012. 4500 F- B, D	0.1 mg/l to 100.00 mg/l
		Sulphide	IS 3025 (Part 29): 1986	0.05 mg/l to 100 mg/l
		Cadmium	IS 3025 (Part 2): 2004	0.001 mg/l to 100 mg/l
		Cyanide	IS 3025 (Part 27): 1986	0.01 mg/l to 50.0 mg/l
		Lead	IS 3025 (Part 2): 2004	0.005 mg/l to 100 mg/l
		Mercury	IS 3025 (Part 2): 2004	0.001 mg/l to 100 mg/l
		Nickel	IS 3025 (Part 2): 2004	0.01 mg/l to 100 mg/l
		Arsenic	IS 3025 (Part 2): 2004	0.005 mg/l to 100 mg/l
		Total Chromium	IS 3025 (Part 2): 2004	0.05 mg/l to 100 mg/l
		Total Hardness (as CaCO3)	IS 3025 (part 21): 2009	1.00 mg/l to 5000.00 mg/l
		Zinc	IS 3025 (Part 2): 2004	0.1 mg/l to 100 mg/l
		Silver	IS 3025 (Part 2): 2004	0.05 mg/l to 100 mg/l
		Chloride	IS 3025 (Part 32): 1988	1.0 mg/l to 3000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Selenium	IS 3025 (Part 2): 2004	0.005 mg/l to 100 mg/l
		Sulphate as SO_4	IS 3025 (Part 24): 1986	1.00 mg/l to 1000.00 mg/l
		Total Alkalinity as $CaCO_3$	IS 3025 (Part 23): 1986	1.00 mg/l to 1000.00 mg/l
		Molybdenum as Mo	IS 3025 (Part 2): 2004	0.05 mg/l to 100 mg/l
2.	**Swimming Pool Water**	pH	IS 3025 (Part 11): 1983	1.00 to 14.00
		Total Alkalinity (as $CaCO_3$)	IS 3025 (Part 23): 1986	1.00 mg/l to 1000.00 mg/l
		Oxygen Absorbed in 4 Hrs	IS 3025 (Part 51): 2001	0.4 mg/l to 500 mg/l
		Aluminium	IS 3025 (Part 2): 2004;	0.01 mg/l to 100 mg/l
		Total Residual Chlorine	IS 3025 (Part 26): 1986	0.10 mg/l to 10000.00 mg/l
		Total Dissolved solids	IS 3025 (Part 16): 1984	5.00 mg/l to 25000 mg/l
		Chloride	IS 3025 (Part 32): 1988	1.0 mg/l to 30000.00 mg/l
		Iron	IS 3025 (Part 53): 2003	0.10 mg/l to 10000 mg/l
		Turbidity	IS 3025 (Part 10): 1984	1.0 NTU to 400.0 NTU
		Colour	IS 3025 (Part 4): 1983	2 Hazen to 500 Hazen
		Taste	IS 3025 (Part 8): 1984	Qualitative
		Odour	IS 3025 (Part 5): 1983	Qualitative
		Lead	IS 3025 (Part 2): 2004	0.005 mg/l to 1000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	**Water for Construction**	pH	IS 3025 (Part 11): 1983 (RA 2002)	1.00 to 14.00
		TDS (Organic & Inorganic)	IS 3025 (Part 16): 1983 (RA 2003)	5.00 mg/l to 25000.0 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	1.0 mg/l to 3000.00 mg/l
		Sulphate	IS 3025 (Part 32): 1988 (RA 2003)	1.00 mg/l to 1000.00 mg/l
		TSS	IS 3025 (Part 17): 1984 (RA 2002)	5.0 mg/l to 5000.0 mg/l
4.	**Distilled & Demineralised water**	pH	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Conductivity	IS 3025 (Part 14): 1984	0.5 µmho to 1000 mmho/cm
		Total Solids	IS 3025 (Part 15): 1984 (2003)	5.00 mg/l to 25000.00 mg/l
		Colour retention of $KMNO_4$	IS 1070: 1992 (RA 2003)	1 min to 60 min
		Silica	IS 3025 (Part 35): 1986	0.01 mg/l to 100 mg/l
5.	**Water For Processed Food Industry / Other Water**	Colour	IS 3025 (Part 4): 1983	2 Hazen to 500 Hazen
		Turbidity	IS 3025 (Part 10): 1984	1.0 NTU to 400.0 NTU
		pH	IS 3025 (Part 11): 1983	1.0 to 14

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Water For Processed Food Industry / Other Water	Total solid	IS 3025 (Part 15): 1984	5 mg/l to 100000 mg/l
		Sulphate	IS 3025 (Part 24): 1986	1 mg/l to 100000 mg/l
		Total Hardness (as $CaCO_3$)	IS 3025 (Part 16): 1964	1 mg/l to 100000 mg/l
		Odour	IS 3025 (Part 5): 1983	Qualitative
		Fluoride	APHA (22nd Edition) 4500 F-B, D: 2012	0.1 mg/l to 100.00 mg/l
		Chloride	IS 3025 (Part 32): 1988	1 mg/l to 50000 mg/l
		Cyanide	IS 3025 (Part 27): 1986	0.01 mg/l to 1000 mg/l
		Selenium	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Iron	IS 3025 (Part 2): 2004	0.10 mg/l to 10000 mg/l
		Magnesium	IS 3025 (Part 2): 2004	1 mg/l to 100000 mg/l
		Manganese	IS 3025 (Part 2): 2004	0.01 mg/l to 10000 mg/l
		Copper	IS 3025 (Part 2): 2004	0.01 mg/l to 10000 mg/l
		Lead	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Chromium	IS 3025 (Part 2): 2004	0.05 mg/l to 10000 mg/l
		Zinc	IS 3025 (Part 2): 2004	0.1 mg/l to 10000 mg/l
		Arsenic	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Nitrate	IS 3025 (Part 34): 1988	1.0 mg/l to 100000 mg/l
		Phenolic Compound	IS 3025 (Part 43) : 1992	0.001 mg/l to 10000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Pesticides Residues in Water			
		Trihalomethanes		
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Bromoform	Lab SOP No. LAB_P(e)_ SOP_148-Rev. 00: 7/8/2015 APHA (22nd Edition) 6232: 2012	0.05 mg/l to 1.0 mg/l
		Chloroform	Lab SOP No. LAB_P(e)_ SOP_148-Rev. 00: 7/8/2015 APHA (22nd Edition) 6232: 2012	0.05 mg/l to 1.0 mg/l
		Dibromochloromethane	Lab SOP No. LAB_P(e)_ SOP_148-Rev. 00: 7/8/2015 APHA (22nd Edition) 6232: 2012	0.05 mg/l to 1.0 mg/l
		Bromodichloromethane	Lab SOP No. LAB_P(e)_ SOP_148-Rev. 00: 7/8/2015APHA (22nd Edition) 6232: 2012.	0.05 mg/l to 1.0 mg/l
		Polychlorinated biphenyl (PCB)		
		2,2,5,5- Tetrachlorobiphenyl (PCB52)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based onAPHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		2,2,4,5,5- Pentachlorobiphenyl (PCB 101)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based on APHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	2,3,4,4,5- Pentachlorobiphenyl (PCB 118)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based onAPHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		2,2,3,4,4,5- Hexachlorobiphenyl (PCB 138)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based on APHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		2,2,4,4,5,5-Hexachlorobiphenyle (PCB 153)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based onAPHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		2,2,3,4,4,5,5- Heptachlorobiphenyl (PCB 180)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based on APHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		2,4,4- Trichlorobiphenyl (PCB28)	Lab SOP No. LAB_P(e)_ SOP_147-Rev. 00: 7/8/2015 Based on APHA (22nd Edition) 6630: 2012	0.1 µg/l to 100 µg/l
		Polyaromatic Hydrocarbon (PAH)		
		Acenaphthlyne	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Acenaphthlene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Fluorene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Phenanthrene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Anthracene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Fluoranthene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Pyrene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (alfa) Anthracene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Napthalene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Crysene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (b+k) fluranthene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (k) fluranthene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (alpha) Pyrene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Indeno (1,2,3-cd) Pyrene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Dibenzo (a,h) anthracene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (g,h,i) perylene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Benzo (b+k) fluranthene	LAB_P(e)_SOP_104-Rev. 00-19/05/2015 Based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Pesticides		
		Alachlor	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Atrazine	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Aldrin	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.03 µg/l to 100 µg/l
		Dieldrin	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.03 µg/l to 100 µg/l
		Alpha HCH	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.01 µg/l to 100 µg/l
		Beta HCH	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.01 µg/l to 100 µg/l
		Gamma HCH (Lindane)	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Butachlor	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Chlorpyrifos	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Delta HCH	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.01 µg/l to 100 µg/l
		2-4 DDE	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		4-4 DDE	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		2-4 DDD	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		4-4 DDD	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		2-4 DDT	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		4-4 DDT	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water/ Borewell/ Tubewell/ R.O Water	Alpha Endosulphan	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Beta Endosulphan	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Endosulphan Sulphate	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Ethion	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Malathion	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Methyl Parathion	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Monocrotophos	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l
		Phorate	LAB_P(e)_SOP_105_Rev. 00: 19/05/2015 Based on USEPA 525.2, 507	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	**Inland Surface Waters**		
		Colour	IS 3025 (Part 4): 1983	2 Hazen to 500 Hazen
		Odour	IS 3025 (Part 5): 1983	Qualitative
		pH	IS 3025 (Part 11):1983	1.00 - 14.00
		Taste	IS 3025 (Part 7 & 8)1984	Qualitative
		Total Dissolved Solids	IS 3025 (Part 16): 1984	5.00 mg/l to 25000.00 mg/l
		Aluminum	IS 3025 (Part 2): 2004	0.01 mg/l to 10000 mg/l
		Ammonia	IS 3025 (Part 34): 1988	0.10 mg/l to 10000 mg/l
		Anionic Detergent (as MBAS)	IS 13428: 2005 Annexure K	0.05 mg/l to 1000.00 mg/l
		Barium	IS 3025 (Part 2): 2004	0.1 mg/l to 10000 mg/l
		Boron	IS 3025 (Part 2): 2004	0.1 mg/l to 10000 mg/l
		Calcium Hardness as $CaCO_3$	IS 3025 (Part 40): 1991	1.0 mg/l to 5000.00 mg/l
		Chloramines	IS 3025 (Part 26): 1986	1.0 mg/l to 1000.00 mg/l
		Copper	IS 3025 (Part 2): 2004	0.01 mg/l to 10000 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986	0.10 mg/l to 1000.00 mg/l
		Iron	IS 3025 (Part 2): 2004	0.10 mg/l to 10000 mg/l
		Magnesium Hardness as $CaCO_3$	IS 3025 (Part 46): 1994	1 mg/l to 10000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Manganese	IS 3025 (Part 2): 2004	0.05 mg/l to 10000 mg/l
		Nitrate	APHA (22nd Edition) 4500 - B: 2012 /IS 3025 (Part 34): 1988	1.0 mg/l to 50000.00 mg/l
		Phenolic Compounds as C6H5OH	IS 3025 (Part 43): 1992	0.001 mg/l to 5000 mg/l
		Fluoride	APHA (22nd Edition) 4500 F- B, D: 2012.	0.1 mg/l to 100.00 mg/l
		Sulphide	IS 3025 (Part 29): 1986	0.05 mg/l to 1000 mg/l
		Cadmium	IS 3025 (Part 2): 2004	0.001 mg/l to 10000 mg/l
		Cyanide	IS 3025 (Part 27): 1986	0.01 mg/l to 5000.0 mg/l
		Lead	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Mercury	IS 3025 (Part 2): 2004	0.001 mg/l to 100 mg/l
		Nickel	IS 3025 (Part 2): 2004	0.01 mg/l to 10000 mg/l
		Arsenic	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Total Chromium	IS 3025 (Part 2): 2004	0.05 mg/l to 10000 mg/l
		Total Hardness (as $CaCO_3$)	IS 3025 (Part 21): 2009	1.00 mg/l to 5000.00 mg/l
		Zinc	IS 3025 (Part 2): 2004	0.1 mg/l to 10000 mg/l
		Silver	IS 3025 (Part 2): 2004	0.05 mg/l to 10000 mg/l
		Chloride	IS 3025 (Part 32): 1988	1.0 mg/l to 10000 mg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Selenium	IS 3025 (Part 2): 2004	0.005 mg/l to 10000 mg/l
		Sulphate	IS 3025 (Part 24): 1986	1.00 mg/l to 100000 mg/l
		Alkalinity (As $CaCO_3$)	IS 3025 (Part 23): 1986	1.00 mg/l to 100000 mg/l
		Dissolved Oxygen (DO)	IS 3025 (Part 38): 1989 (2003)	1.0 mg/l to 15.00 mg/l
		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (2003)	5.0 mg/l to 100000.0 mg/l
		Chromium (Hexavalent)	IS 3025 (Part 52): 2003	0.10 mg/l to 10000 mg/l
		Oil and Grease	IS 3025 (Part 39): 1991 (2003)	2.0 mg/l to 100000 mg/l
		Ammonical Nitrogen	IS 3025 (Part 34): 1988 (2004)	1.0 mg/l to 10000.00 mg/l
		Electrical Conductivity	IS 3025 (Part 14): 1984 (2001)	1.0 µs/cm to 500000.0 µs/cm
		Free CO_2	IS 3025 (Part 61): 2008	2 mg/l to 1000 mg/l
		Sodium Absorption Ratio	IS 11624: 1986	0.05 to 90
		Percentage Sodium	LAB_P(e)_SOP_104_Rev. 00:26/02/2013 based on IS 2488 (Part 5): 1976	0.01 to 100
		Alkalinity (As HCO_3)	IS 3025 (Part 23): 1986	2 mg/l to 10000 mg/l
		Silt Density Index	ASTM D 4189 – 95 (Reapproved 2002)	1.0 to 50.0
		Residual Sodium Carbonate	IS 11624: 1986	0.01 to 100

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	**Polyaromatic Hydrocarbon (PAH)**		
		Acenaphthlyne	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B & C: 2012	0.1 µg/l to 100 µg/l
		Acenaphthlene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Fluorene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Phenanthrene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Anthracene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00 19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Fluoranthene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Pyrene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (alfa) Anthracene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Napthalene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Crysene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00 19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (b+k) fluranthene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (k) fluranthene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Benzo (alpha) Pyrene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Indeno (1,2,3-cd) Pyrene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition) 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Dibenzo (a,h) anthracene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition): 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Benzo (g,h,i) perylene	Lab SOP No. LAB_P(e)_ SOP_104-Rev. 00-19/05/2015 based onAPHA (22nd Edition): 6440 B&C: 2012	0.1 µg/l to 100 µg/l
		Pesticides		
		Alachlor	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Atrazine	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Aldrin	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.03 µg/l to 100 µg/l
		Dieldrin	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.03 µg/l to 100 µg/l
		Alpha HCH	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.01 µg/l to 100 µg/l
		Beta HCH	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.01 µg/l to 100 µg/l
		Gamma HCH (Lindane)	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Butachlor	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Chlorpyrifos	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Delta HCH	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.01 µg/l to 100 µg/l
		2-4 DDE	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	4-4 DDE	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		2-4 DDD	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		4-4 DDD	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		2-4 DDT	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		4-4 DDT	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Alpha Endosulphan	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Beta Endosulphan	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Endosulphan Sulphate	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Ethion	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Malathion	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Methyl Parathion	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Monocrotophos	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Phorate	LAB_P(e)_SOP_105_Rev. 00:19/05/2014 based on USEPA 525.2	0.1 µg/l to 100 µg/l
		Volatile Organic Compounds		
		Benzene	Lab SOP No. LAB_P(e)_SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Bromobenzene	Lab SOP No. LAB_P(e)_SOP_146-Rev. 00: 7/8/2015based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Bromochloromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Bromodichloromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Bromoform	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00:7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		n-Butylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		sec-Butylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		tert-Butylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Carbon tetrachloride	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Chlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l
		Chloroform	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS –Headspace	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	2-Chlorotoluene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		4-Chlorotoluene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Dibromochloromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2-Dibromo-3-chloropropane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2-Dibromoethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Dibromomethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2-Dichlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	1,3-Dichlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,4-Dichlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1-Dichloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2-Dichloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1-Dichloroethene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		cis-1,2-Dichloroethene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		trans-1,2-Dichloroethene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	1,2-Dichloropropane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,3-Dichloropropane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		2,2-Dichloropropane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1-Dichloropropene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		cis-1,3-Dichloropropene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		trans-1,3-Dichloropropene	Lab SOP No. LAB_P(e)_SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Ethylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Hexachlorobutadiene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Isopropylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Part Isopropyltoluene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Dichloromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Naphthalene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Propylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Styrene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	1,1,1,2-Tetrachloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1,2,2-Tetrachloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Tetrachloroethene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Toluene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2,3-Trichlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2,4-Trichlorobenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1,1-Trichloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	1,1-Dichloropropene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,1,2-Trichloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Trichloroethene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2,3-Trichloropropane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,2,4-Trimethylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		1,3,5-Trimethylbenzene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		o-Xylene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	m-Xylene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Part Xylene	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Bromomethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Chloroethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Chloromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Dichlorodifluoromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l
		Trichlorofluoromethane	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS	5 µg/l to 100 µg/l

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Swimming Pool Water	Vinyl chloride	Lab SOP No. LAB_P(e)_ SOP_146-Rev. 00: 7/8/2015 based on USEPA 8260B, GCMS s	5 µg/l to 100 µg/l
III.	**AIR, GASES & ATMOSPHERE**			
1.	**Ambient Air Monitoring/ Work Zone Emission/ Compressed Air**	Suspended Particulate Matter	IS 5182 (Part 4): 1999 (2005)	10 µg/$m^3$to 5000 µg/m^3
		Sulphur Dioxide	IS 5182 (Part 2): 2001	4.0 µg/m^3 to 900.0 µg/m^3
		Nitrogen Dioxide	IS 5182 (Part 6): 2006	9.0 µg/m^3 to 740.0 µg/m^3
		Respirable suspended particulate matter (PM_{10})	IS 5182 (Part 23): 2006	0.005 µg/m^3 to 5 µg/m^3
		Ammonia	APHA (3rd Edition) 401: 1988 (Indo-phenol method)	0.02 mg/m^3 to 0.7 mg/m^3
		Carbon monoxide (I_2 O_5 Method)	LAB_P(e)_SOP_62_Rev. 00: 18/04/2013 IS 5182 (Part 10): 1999 (RA 2003)	0.005 mg/m^3 to 10 mg/m^3
		Lead	IS 5182 (Part 22): 2004	0.01 mg/m^3 to 10 mg/m^3
		Ozone	IS 5182 (Part 9): 1974	0.5 µg/m^3 to 500 µg/m^3
		Nickel	Method: 822 , Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	3.0 ng/$m^3$to 50 mg/m^3
		Arsenic	Method: 822, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.2 ng/m^3 to 50 ng/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ambient Air Monitoring/ Work Zone Emission/ Compressed Air	Chromium	Method: 822, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.005 µg/m^3 to 50 µg/m^3
		Copper	Method: 822, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.05 - 50 µg/m^3
		Iron	Method: 822, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.1 µg/m^3 to 50 µg/m^3
		Meteorological Data Wind Speed Wind direction Rain fall Temperature Relative humidity Solar Radiation Barometric Pressure	Automatic Weather monitoring station: As per CPCB: 2003	 0 to 100 km/hr 0 to 360 ° 0 to 50 mm/hr 0 to 50 °C 0 to 100 % RH 90 µA to 1000 Wm^2
		Particulate Matter (PM 2.5)	LAB_P(e)_SOP_82_Rev. 00: 19/05/2014 Particle size cut-off sampler / Gravimetric Analysis / CFR 40 Chp. 50 Appendix L	5.0 µg/m^3 to 500 µg/m^3
		Benzo (a) Pyrene(Bap)	IS 5182 (Part 12): 2004	0.5 ng/m^3 to 10.0 ng/m^3
		Benzene(as C6H6)	IS 5182 (Part 11): 2006	0.5µg/m^3 to 1.5 mg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ambient Air Monitoring/ Work Zone Emission/ Compressed Air	Hydrogen Sulphide(as H2 S)	IS 5182 (Part 7): 1973	2.0µg/m^3 to 10.0 mg/m^3
		Chromic Acid & Chromates (AS Cr.)	Method: 808, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	10.0 µg/m^3 to 0.25 mg/m^3
		Cyanides (as CN)	Method: 808, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	13.0 µg/m^3 to 13.0 mg/m^3
		Fluorides(as F)	IS 5182 (Part 13): 1991	9.0 µg/m^3 to 25.0 mg/m^3
		Formaldehyde (as HCHO)	Method: 116, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.1 ppm to 2.0 ppm (0.1 mg/m^3 to 2.5 mg/m^3)
		Carbon monoxide (NDIR Method)	NDIR Techneques	0.01 mg/m^3 to 10000 mg/m^3
		Toluene (as Toluol)	IS 5182 (Part 11): 2006	0.5 µg/m^3 to 10 mg/m^3
		Xylene	IS 5182 (Part 11): 2006	0.5 µg/m^3 to 10 mg/m^3
		Phenols & Phenolic Compounds(as C6H5OH)	Method: 121, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.1 mg/m^3 to 10 mg/m^3
		Chlorine (as Cl_2)	IS 5182 (Part 19): 1982	3.5 µg/m^3 to 35 µg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ambient Air Monitoring/ Work Zone Emission/ Compressed Air	Carbon Disulphide	IS 5182 (Part 20): 1982	0.6 mg/m^3 to 20 mg/m^3
		Zinc (as ZnO) (Total Dust)	Method: 822, Methods of Air Sampling and Analysis Inter society committee, (3rd Edition): 1988	0.1 µg/m^3 to 50 µg/m^3
2.	**Air/ Gases/ Atomsphere**	**Volatile Organic Compounds**		
		Benzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Carbon tetrachloride	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Chlorobenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Chloroform	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Bromomethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Chloromethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Air/ Gases/ Atomsphere	1,2-Dibromoethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		o-Dichlorobenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		m-Dichlorobenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Part Dichlorobenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1-Dichloroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,2-Dichloroethene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1-Dichloroethene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		cis-1,2-Dichlorethene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,2-Dichloropropane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Air/ Gases/ Atomsphere	cis-1,3-Dichloropropene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		cis-1,3-Dichloropropene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		trans-1,3-Dichloropropene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Ethylbenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		chloroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Trichlorofluoromethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Dichlorofluoromethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1,2 Trichlorofluoroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Dichlorotetrafluoroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Air/ Gases/ Atomsphere	Hexachloro-1,3-Butadiene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Methylene chloride	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Styrene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1,2,2-Tetrachloroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Tetrachloroethylene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Toluene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,2,4-Trichlorobenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1,1-Trichloroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,1,2-Trichloroethane	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Air/ Gases/ Atomsphere	Trichloroethene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,2,4-Trimethylbenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		1,3,5-Trimethylbenzene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		o-Xylene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		m-Xylene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Part Xylene	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
		Vinyl chloride	LAB_P(e)_SOP_01_Rev. 1: 10/05/2015 based on EPA TO-14A, GCMS –TDS	5 µg/m^3 to 100 µg/m^3
2.	**Stack gases / source emission**	Particulate Matter	IS 11255 (Part 1): 1985 (2003)	5.0 mg/Nm^3 to 10000 mg/Nm^3
		Sulphur Dioxide	IS 11255 (Part 2): 1985 (2003)	1.00 mg/Nm^3 to 1000.00 mg/Nm^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Stack gases / source emission	Flow rate	IS 11255 (Part 3): 1985 / USEPA 2	100 Nm^3/hr to 250000 Nm^3/hr &
		Moisture	USEPA 4: 1971	0.5 % to 95 %
		NH3	IS 11255 (Part 6): 1999 Indophenol Method 401: Method of Air Sampling & Analysis,(3rd Edition); Intersociety Committee	1.0 mg/Nm^3 to 50000.0 mg/Nm^3
		Nitrogen Oxide	IS 11255 (Part 7): 2005	1.0 mg/Nm^3 to 10000.0 mg/Nm^3
		Non Methane Hydrocarbon (NMHC)	IS 5182 (Part 21): 2001 (based by GC)	1 ppm to 10000.0 ppm
		Total Fluoride (as F)	IS 11255 (Part 5): 1990 (RA 2003)	0.1 mg/Nm^3 to 5000 mg/Nm^3
		Lead (as Pb)	USEPA 29	0.1 mg/Nm^3 to 5000 mg/Nm^3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	SITE TESTING			
I.	**AIR, GASES & ATMOSPHERE**			
1.	**Noise Monitoring**	Noise Level (Ambient Noise, Leq db(A)	IS 9989: 1981	34 dB to 134 dB (A)
		Noise Level (Source DG Noise)	IS 4758: 1968	34 dB to 134 dB (A)
		Occupational Noise Exposure (By Noise Dosimeter)	IS 7194: 1994	Upto 120 dB (A)
2.	**Indoor Air Quality Monitoring**	Oxides of nitrogen	Lab Sop No-23_Rev. 1: 5/10/2012 (Section 2) [Based on IS 5182 (Part 5)]	9.0 $\mu g/m^3$ to 740.0 $\mu g/m^3$
		WBGT (Wet& Dry Bulb- globe Temperature)	Lab Sop No-2323_Rev. 1: 5/10/2012 (Sec 5), (Based on Manual on heat stress from Minnesota department of labour and industry occupational safety & health division)	0 to 50 ^oC
		% Relative Humidity	Lab Sop No-2323_Rev. 1: 5/10/2012 (Sec 4) based on ASTM Standard E 337- 02 (Reapproved 2007)	1 % to 100 %
		Noise Level (Inside commercial, Building, offices only)	Lab Sop No-2323_Rev. 1: 5/10/2012 (Sec 3) (based on Manufacturers Manual & IS 7194: 1994/ IS 9876: 1981)	34 dB to 130 dB(A)

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Indoor Air Quality Monitoring	Illumination	Lab Sop No-2323_Rev. 1: 5/10/2012 (Section 6) (based on Instruments Manual)	1 Lux to 50000 Lux
		Carbon Monoxide (CO)	EPA Method I (Part 3)C	1 ppm to 2000 ppm
		Respirable suspended particulate matter (RSPM) As PM10	EPA Method I (Part 10)B	5 µg/$m^3$to 6000 µg/m^3
		Particulate Matter (Pm2.5 & Pm1.0)	LAB_P(e)_SOP_79_Rev. 00: 19/05/2014 By Dust monitor Ref Method - CFR 40 (Part 50) Appendix-L	5 µg/$m^3$to 6000 µg/m^3
		Sulphur Dioxide	LAB_P(e)_SOP_23_Rev. 00: 5/10/2012 CPCB-Modified West & Gaeke Method	25 µg/m^3 to 1050 µg/m^3
		Hydrogen Sulphide	NIOSH (Method 6013,Issue-1)	1 ppm to 100 ppm
		Oxygen	NIOSH (Method 6601,Issue-2)	0.1 % to 25 %
3.	**Stack Gases/ Source Emission**	Carbon dioxide	USEPA 3	0.1 % to 99.0 %
		Carbon monoxide	USEPA 10	1 ppm to 8000 ppm
		Flue gas Temperature	Lab Sop No-2_Rev. 1: 5/10/2012 (based on Manufacturer's Manual)	(-)100 °C to 1250 °C
		Sulphur dioxide	USEPA 6C	1 ppm to 5000ppm
		O_2	USEPA 3	1 % to 25 % vol.

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Stack Gases/ Source Emission	NO	USEPA 7E	1 ppm to 5000 ppm
		Total Hydrocarbon (as CH_4)	EPA (Method-25)	0.1 % to 5 %
		Particulate Matter	IS 11255 (Part 1): 1985 (2003)	5 mg/$Nm^3$to 1000 mg/Nm^3
		Flow Rate	IS 11255 (Part 3): 1985/ USEPA 2	100 Nm^3/hr to 250000 Nm^3/hr
		Nitrogen Oxide	USEPA 7E	1 ppm to 5000ppm
II.	**POLLUTION & EFFLUENT (Field / On Site Measuring Parameter)**			
1.	**Waste water, Industrial water, Industrial Effluent & Domestic Effluent & Surface Water**	pH	APHA (22nd Edition): 2012 (4500H-B)	1.0 to 14.0
		Temperature	APHA (22nd Edition) 2550-B: 2012	1 °C to 50 °C
		Residual Free Chlorine	APHA (22nd Edition) 4500 B&C: 2012 /	0.2 mg/l to 500 mg/l
		Dissolved Oxygen (DO)	APHA (22nd Edition) 4500-O-C: 2012	1 mg/l to 15 mg/l

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