

Laboratory **Prakruti Environmental Engineers (Environmental Laboratory),
1, Utkanth Society, Alkapuri, Vadodara, Gujarat**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7279 (in lieu of T-2943)**

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Validity **19.05.2018 to 18.05.2020**

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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
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CHEMICAL TESTING

I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air Monitoring	Particulate Matter (as PM ₁₀)	IS: 5182 (Part 23) EN 12341	10 µg/m ³ to 800 µg/m ³ 10 µg/m ³ to 800 µg/m ³
		Particulate Matter (as PM _{2.5})	Gravimetric Method, SOP-TCH-001, Issue No.:01, Issue Date:21.10.2013	10 µg/m ³ to 400 µg/m ³
		Sulphur Dioxide (as SO ₂)	IS: 5182 (Part 2)	5 µg/m ³ to 450 µg/m ³
		Oxides of Nitrogen (as NO ₂)	IS: 5182 (Part 6)	5 µg/m ³ to 750 µg/m ³
		Ammonia (as NH ₃)	SOP-TCH-033 Issue No.: 01 Issue Date: 30.04.2016	10 µg/m ³ to 400 µg/m ³
		Chlorine (as Cl ₂)	IS: 5182 (Part-19)	10 µg/m ³ to 100 µg/m ³
		Ozone	IS: 5182 (Part-9)	10 µg/m ³ to 200 µg/m ³
		Chloride (as Cl)	SOP-TCH-034 Issue No.: 01 Issue Date: 30.04.2016	10 µg/m ³ to 200 µg/m ³
2.	Stack Monitoring (Flue/Process)	Particulate Matter (as PM)	IS: 11255 (Part 1)	2.5 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur Dioxide (as SO ₂)	IS: 11255 (Part 2)	3 mg/Nm ³ to 600 mg/Nm ³
		Nitrogen Oxide NO _x (as NO ₂)	Method 7C EPA	5 mg/Nm ³ to 700 mg/Nm ³
			IS: 11255 (Part 7)	2 mg/Nm ³ to 400 mg/Nm ³
		Carbon Dioxide (as CO ₂)	IS: 13270 (ORSAT)	1% to 20%
		Oxygen (as O ₂)	IS: 13270 (ORSAT)	1% to 25%
		Carbon Monoxide (as CO)	IS: 13270 (ORSAT)	0.2% to 10%
		Ammonia (as NH ₃)	IS: 11255 (Part 6)	5 mg/Nm ³ to 500 mg/Nm ³
		Chlorine (as Cl ₂)	USEPA Method 200 Rev:01 5/86	5 mg/Nm ³ to 20 mg/Nm ³
		Hydrochloric Acid (as HCl)	USEPA Method 200 Rev:01 5/86	5 mg/Nm ³ to 100 mg/Nm ³

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II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluent/ Sewage/ Leachate)	pH	APHA 4500-H ⁺ B, Standard Methods 23 rd Edition	2.0 to 12.0
		Temperature	APHA 2550 B, Standard Methods 23 rd Edition	1°C to 80°C
		Colour (Pt-Co Scale)	APHA 2120 C, Standard Methods 23 rd Edition	2 CU to 1000 CU
		Turbidity	APHA 2130 B, Standard Methods 23 rd Edition	0.1 NTU to 2000 NTU
		Acidity (as CaCO ₃)	APHA 2310 B, Standard Methods 23 rd Edition	1 mg/l to 10000 mg/l
		Alkalinity (Total as CaCO ₃)	APHA 2320 B, Standard Methods 23 rd Edition	1 mg/l to 10000 mg/l
		Hardness (as CaCO ₃)	APHA 2340 C, Standard Methods 23 rd Edition	1 mg/l to 20000 mg/l
		Conductivity	APHA 2510 B, Standard Methods 23 rd Edition	2 µS/cm to 200000 µS/cm
		Total Dissolved Solids	APHA 2540 C, Standard Methods 23 rd Edition	5 mg/l to 50000 mg/l
		Total Suspended Solids	APHA 2540 D, Standard Methods 23 rd Edition	5 mg/l to 25000 mg/l
		Biochemical Oxygen Demand (5d at 20 °C)	APHA 5210 B, Standard Methods 23 rd Edition	4 mg/l to 50000 mg/l
		Biochemical Oxygen Demand (3d at 27 °C)	IS: 3025 (Part 44)	4 mg/l to 50000 mg/l
		Chemical Oxygen Demand	APHA 5220 B, Standard Methods 23 rd Edition	4 mg/l to 100000 mg/l
		Oil & Grease (Soxhlet Extraction as O&G)	APHA 5520 D, Standard Methods 23 rd Edition	1 mg/l to 500 mg/l
	Chloride (as Cl ⁻)	APHA 4500-Cl ⁻ B, Standard Methods 23 rd Edition	1 mg/l to 10000 mg/l	
	Fluoride (as F ⁻)	APHA 4500-F ⁻ D, Standard Methods 23 rd Edition	0.1 mg/l to 100 mg/l	

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		Nitrogen (Ammonia as NH ₃ -N)	APHA 4500-NH ₃ C, Standard Methods 23 rd Edition	5 mg/l to 200 mg/l
		Nitrogen (Nitrate as NO ₃ -N)	APHA 4500-NO ₃ ⁻ E, Standard Methods 23 rd Edition	1 mg/l to 100 mg/l
			APHA 4500-NO ₃ ⁻ B, Standard Methods 23 rd Edition	0.1 mg/l to 5 mg/l
		Sulfide (as S ²⁻)	APHA 4500-S ₂ ⁻ F, Standard Methods 23 rd Edition	0.2 mg/l to 100 mg/l
		Sulfate (as SO ₄ ²⁻)	APHA 4500-SO ₄ ²⁻ D, Standard Methods 23 rd Edition	10 mg/l to 1000 mg/l
			APHA 4500-SO ₄ ²⁻ E, Standard Methods 23 rd Edition	1 mg/l to 40 mg/l
		Phenol	APHA 5530 D, Standard Methods 23 rd Edition	0.2 mg/l to 100 mg/l
		Calcium (as Ca)	APHA 3500-Ca B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Magnesium (as Mg)	APHA 3500-Mg B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Sodium (as Na)	APHA 3500-Na B, Standard Methods 23 rd Edition	0.1 mg/l to 10000 mg/l
		Total Solids	APHA 2540 B, Standard Methods 23 rd Edition	5 mg/l to 750000 mg/l
		Fixed Solids	APHA 2540 E, Standard Methods 23 rd Edition	5 mg/l to 50000 mg/l
		Volatile Solids	APHA 2540 E, Standard Methods 23 rd Edition	5 mg/l to 50000 mg/l
		Settleable Solids	APHA 2540 F, Standard Methods 23 rd Edition	1 mg/l to 600 mg/l
				5 mg/l to 1000 mg/l

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		Sludge Volume Index	APHA 2710 D, Standard Methods 23 rd Edition	200 to 2000
		Chlorine (Residual as Cl ₂)	APHA 4500-Cl F, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
			APHA 4500-Cl G DPD Colorimetric KIT Method	0.2 mg/l to 2 mg/l
		Oxygen (Dissolved as DO)	APHA 4500-O C, Standard Methods 23 rd Edition	1 mg/l to 10 mg/l
		Nitrogen (Nitrite as NO ₂ -N)	APHA 4500-NO ₂ B, Standard Methods 23 rd Edition	0.2 mg/l to 100 mg/l
		Nitrogen (Organic as N _{org})	APHA 4500-N _{org} B, Standard Methods 23 rd Edition	2 mg/l to 100 mg/l
		Phosphate (as P)	APHA 4500-P C, Standard Methods 23 rd Edition	0.5 mg/l to 20 mg/l
		Silica (as SiO ₂)	APHA 4500-SiO ₂ C, Standard Methods 23 rd Edition	1 mg/l to 25 mg/l
			APHA 4500-SiO ₂ D, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Boron (as B)	APHA 3500-B B, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Potassium (as K)	APHA 3500-K B, Standard Methods 23 rd Edition	0.5 mg/l to 40 mg/l
2.	Waste (Liquid/ Slurry/Sludge/Solid/Semi-Solid)	pH measured in water at 25±2 °C	USEPA, SW-846, Method 9045 D (revision 4, November 2004)	2.0 to 12
		pH	SOP-TCH-013 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.4	2.0 to 12.0

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		Specific Gravity	APHA 2710 F, Standard Methods 23 rd Edition	1 to 2.5
		Moisture Content (Loss on Drying at 105 °C)	APHA 2540 G, Standard Methods 23 rd Edition	0.5 % to 99 %
		Organic Content (Loss on Ignition at 550 °C)	APHA 2540 G, Standard Methods 23 rd Edition	0.5 % to 99 %
		Paint Filter Liquid Test (PFLT)	SOP-TCH-014 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 9.4	Qualitative (Pass/Fail)
		Chromium (Total as Cr) by TCLP	SOP-TCH-015 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.5 & APHA 3500-Cr D, Standard Methods 19 th Edition	0.02 mg/l to 100 mg/l
		Chromium (Hexavalent as Cr ⁺⁶) by TCLP	SOP-TCH-016 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.5 & APHA 3500-Cr B, Standard Methods 23 rd Edition	0.02 mg/l to 100 mg/l
		Copper (as Cu) by TCLP	SOP-TCH-017 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.5 & APHA 3500-C C, Standard Methods 23 rd Edition	0.02 mg/l to 10 mg/l
		Iron (as Fe) by TCLP	SOP-TCH-018 Issue No.: 01, Issue Date: 30.04.2016	0.1 mg/l to 10 mg/l

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			Ref: LATS/16/2002-03, 7.5 & APHA 3500-Fe B, Standard Methods 23 rd Edition	
		Arsenic (as As) by TCLP	SOP-TCH-019 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.5 & IS:3025 (Part 37) : 1988, R-2003, Silver Dithiocarbamate Method	0.008 mg/l to 2.0 mg/l
		Aluminium (as Al) by TCLP	SOP-TCH-020 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 7.5 & APHA 3500-Al B, Standard Methods 23 rd Edition	0.01 mg/l to 10 mg/l
		Chromium (Total as Cr) by Digestion	SOP-TCH-021 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.4 & APHA 3500-Cr D, Standard Methods 19 th Edition	0.5 mg/kg to 1000 mg/kg
		Chromium (Hexavalent as Cr ⁺⁶) by Digestion	SOP-TCH-022 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.4 & APHA 3500-Cr B, Standard Methods 23 rd Edition	0.5 mg/kg to 1000 mg/kg
		Copper (as Cu) by Digestion	SOP-TCH-023 Issue No.: 01, Issue Date: 30.04.2016	0.5 mg/kg to 1000 mg/kg

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			Ref: LATS/16/2002-03, 5.4 & APHA 3500-Cu C, Standard Methods 23 rd Edition	
		Iron (as Fe) by Digestion	SOP-TCH-024 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.4 & APHA 3500-Fe B, Standard Methods 23 rd Edition	0.5 mg/kg to 2000 mg/kg
		Arsenic (as As) by Digestion	SOP-TCH-025 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.6 & IS:3025 (Part 37) -1988, R 2003, Silver Dithiocarbamate Method	0.5 mg/kg to 1000 mg/kg
		Aluminium (as Al) by Digestion	SOP-TCH-026 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.4 & APHA 3500-Al B, Standard Methods 23 rd Edition	0.5 mg/kg to 1000 mg/kg
		Nitrogen (Nitrite as NO ₂ -N)	SOP-TCH-027 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.11 & APHA 3500-NO ₂ B, Standard Methods 23 rd Edition	5 mg/kg to 2000 mg/kg

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		Nitrogen (Nitrate as NO ₃ -N)	SOP-TCH-028 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.9 & APHA 4500-NO ₃ - E, Standard Methods 23 rd Edition	5 mg/kg to 2000 mg/kg
		Nitrogen (Ammonia as NH ₃ -N)	SOP-TCH-029 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.12 & APHA 4500- NH ₃ C, Standard Methods 23 rd Edition	5 mg/kg to 5000 mg/kg
		Phosphate (as P)	SOP-TCH-030 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.13 & APHA 4500- P C, Standard Methods 23 rd Edition	10 mg/kg to 500 mg/kg
		Sulfide (as S ²⁻)	SOP-TCH-031 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 5.14 & APHA 4500- S ²⁻ F, Standard Methods 23 rd Edition	5 mg/kg to 2000 mg/kg
		Phenol	SOP-TCH-032 Issue No.: 01, Issue Date: 30.04.2016 Ref: LATS/16/2002-03, 6.8 &	5 mg/kg to 2000 mg/kg

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			APHA 5530- D, Standard Methods 23 rd Edition	
		Oil & Grease (as O&G)	APHA 5520 E, Standard Methods 23 rd Edition	5 mg/kg to 2000 mg/kg
III.	WATER			
1.	Drinking Water/ Potable Water	pH	APHA 4500-H ⁺ B, Standard Methods 23 rd Edition	2 to 12
		Colour (Pt-Co Scale)	APHA 2120 C, Standard Methods 23 rd Edition	1 CU to 100 CU
		Turbidity	APHA 2130 B, Standard Methods 23 rd Edition	0.1 NTU to 100 NTU
		Alkalinity (Total as CaCO ₃)	APHA 2320 B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Hardness (as CaCO ₃)	APHA 2340 C, Standard Methods 23 rd Edition	1 mg/l to 2000 mg/l
		Total Dissolved Solids	APHA 2540 C, Standard Methods 23 rd Edition	5 mg/l to 10000 mg/l
		Chloride (as Cl ⁻)	APHA 4500-Cl ⁻ B, Standard Methods 23 rd Edition	1 mg/l to 2000 mg/l
		Fluoride (as F ⁻)	APHA 4500-F ⁻ D, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Nitrogen (Ammonia as NH ₃ -N)	APHA 4500-NH ₃ F, Standard Methods 23 rd Edition	0.2 mg/l to 5 mg/l
		Nitrogen (Nitrate as NO ₃ -N)	APHA 4500-NO ₃ ⁻ E, Standard Methods 23 rd Edition	1 mg/l to 100 mg/l
			APHA 4500-NO ₃ ⁻ B, Standard Methods 23 rd Edition	0.1 mg/l to 5 mg/l
		Sulfate (as SO ₄ ²⁻)	APHA 4500-SO ₄ ²⁻ D, Standard Methods 23 rd Edition	10 mg/l to 1000 mg/l

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			APHA 4500-SO ₄ ²⁻ E, Standard Methods 23 rd Edition	1 mg/l to 40 mg/l
		Calcium (as Ca)	APHA 3500-Ca B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Magnesium (as Mg)	APHA 3500-Mg B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Chlorine (Residual as Cl ₂)	APHA 4500-Cl F, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
			APHA 4500-Cl G DPD Colorimetric KIT Method	0.2 mg/l to 2 mg/l
		Sulfide (as S ²⁻)	IS: 3025 (Part-29), Methylene Blue Method	0.03 mg/l to 10 mg/l
		Phenol	IS: 3025 (Part-43), 4-Aminoantipyrine Method	0.0005 mg/l to 2 mg/l
		Boron (as B)	APHA 4500-B B, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
2.	Ground Water/ Surface Water/ Utility Water/ Process Water/ Treated Water/ Recovered Water	pH	APHA 4500-H ⁺ B, Standard Methods 23 rd Edition	2.0 to 12.0
		Temperature	APHA 2550 B, Standard Methods 23 rd Edition	2°C to 60°C
		Colour (Pt-Co Scale)	APHA 2120 C, Standard Method 23 rd Edition	1 CU to 1000 CU
		Turbidity	APHA 2130 B, Standard Methods 23 rd Edition	0.1 NTU to 1000 NTU
		Acidity (as CaCO ₃)	APHA 2310 B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Alkalinity (Total as CaCO ₃)	APHA 2320 B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Hardness (as CaCO ₃)	APHA 2340 C, Standard Methods 23 rd Edition	1 mg/l to 2000 mg/l
		Conductivity	APHA 2510 B, Standard Methods 23 rd Edition	2 µs/cm to 50000 µs/cm

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		Total Dissolved Solids	APHA 2540 C, Standard Methods 23 rd Edition	5 mg/l to 50000 mg/l
		Total Suspended Solids	APHA 2540 D, Standard Methods 23 rd Edition	5 mg/l to 1000 mg/l
		Biochemical Oxygen Demand (5d at 20 °C as BOD)	APHA 5210 B, Standard Methods 23 rd Edition	1.5 mg/l to 5000 mg/l
		Biochemical Oxygen Demand (3d at 27 °C as BOD)	IS: 3025 (Part 44)	1.5 mg/l to 5000 mg/l
		Chemical Oxygen Demand (as COD)	APHA 5220 B, Standard Methods 23 rd Edition	4 mg/l to 10000 mg/l
		Oil & Grease (Soxhlet Extraction as O&G)	APHA 5520 D, Standard Methods 23 rd Edition	1 mg/l to 100 mg/l
		Chloride (as Cl ⁻)	APHA 4500-Cl ⁻ B, Standard Methods 23 rd Edition	1 mg/l to 20000 mg/l
		Fluoride (as F ⁻)	APHA 4500-F ⁻ D, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Nitrogen (Ammonia as NH ₃ -N)	APHA 4500-NH ₃ F, Standard Methods 23 rd Edition	0.2 mg/l to 5 mg/l
			APHA 4500-NH ₃ C, Standard Methods 23 rd Edition	5 mg/l to 200 mg/l
		Nitrogen (Nitrate as NO ₃ -N)	APHA 4500-NO ₃ ⁻ E, Standard Methods 23 rd Edition	1 mg/l to 100 mg/l
			APHA 4500-NO ₃ ⁻ B, Standard Methods 23 rd Edition	0.1 mg/l to 5 mg/l
		Sulfide (as S ²⁻)	APHA 4500-S ₂ ⁻ F, Standard Methods 23 rd Edition	0.2 mg/l to 10 mg/l

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		Sulfate (as SO ₄ ²⁻)	APHA 4500-SO ₄ ²⁻ D, Standard Methods 23 rd Edition	10 mg/l to 1000 mg/l
			APHA 4500-SO ₄ ²⁻ E, Standard Methods 23 rd Edition	1 mg/l to 40 mg/l
		Phenol	APHA 5530 D, Standard Methods 23 rd Edition	0.2 mg/l to 10 mg/l
		Calcium (as Ca)	APHA 3500-Ca B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Magnesium (as Mg)	APHA 3500-Mg B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Sodium (as Na)	APHA 3500-Na B, Standard Methods 23 rd Edition	1 mg/l to 1000 mg/l
		Total Solids	APHA 2540 B, Standard Methods 23 rd Edition	5 mg/l to 50000 mg/l
		Settleable Solids	APHA 2540 F, Standard Methods 23 rd Edition	1 ml/l to 600 ml/l
				5 mg/l to 1000 mg/l
		Chlorine (Residual as Cl ₂)	APHA 4500-Cl F, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
			APHA 4500-Cl G DPD Colorimetric KIT Method	0.2 mg/l to 2 mg/l
		Oxygen (Dissolved as DO)	APHA 4500-O C, Standard Methods 23 rd Edition	1 mg/l to 10 mg/l
		Nitrogen (Nitrite as NO ₂ -N)	APHA 4500-NO ₂ B, Standard Methods 23 rd Edition	0.2 mg/l to 100 mg/l
		Nitrogen (Organic as N _{org})	APHA 4500-N _{org} B, Standard Methods 23 rd Edition	2 mg/l to 100 mg/l
		Phosphate (as P)	APHA 4500-P C, Standard Methods 23 rd Edition	0.5 mg/l to 20 mg/l

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		Silica (as SiO ₂)	APHA 4500-SiO ₂ C, Standard Methods 23 rd Edition	1 mg/l to 25 mg/l
			APHA 4500-SiO ₂ D, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Boron (as B)	APHA 4500-B B, Standard Methods 23 rd Edition	0.1 mg/l to 10 mg/l
		Potassium (as K)	APHA 3500-K B, Standard Methods 23 rd Edition	0.5 mg/l to 40 mg/l

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