

Laboratory **Sawen Projects & Laboratories Pvt. Ltd., Hall No. 2&10, LDA Commercial Complex, Vibhav Khand, Gomti Nagar, Lucknow, Uttar Pradesh**

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

Discipline **Chemical Testing**

Issue Date **11.02.2014**

Certificate Number **T-2091**

Valid Until **10.02.2016**

Last Amended on **-**

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	WATER			
1.	Waste Water	Oil & Grease	5520 B APHA 22nd Edition, 2012	5.00-1500 mg/L
		Dissolved Oxygen	4500-O APHA 22nd Edition, 2012	01-10 mg/L
		Biochemical Oxygen Demand	5210 APHA 22nd Edition, 2012	5.0-1500 mg/L
		Chemical Oxygen Demand	5220 B APHA 22nd Edition, 2012	5-2500 mg/L
		Total Suspended Solids	2540 D APHA 22nd Edition, 2012	5-2000 mg/L
2.	Surface Water/ Ground Water/ Drinking Water	Color	2120 B APHA 22nd Edition, 2012	5 - 99 Hazan units
		pH	4500-H ⁺ A APHA 22nd Edition, 2012	2.00-12.00
		Conductivity	2520 B APHA 22nd Edition, 2012	2.00 - 10000 µs/cm
		Turbidity (NTU)	2130 B APHA 22nd Edition 2012	0.2-199.9 NTU
		Total Dissolved Solids	2540 C APHA 22nd Edition, 2012	10-5000 mg/L
		Total Hardness CaCO ₃	2340 C APHA 22nd Edition, 2012	10-1000 mg/L
		Calcium as Ca	3500-Ca B APHA 22nd Edition, 2012	10-1000 mg/L
		Magnesium as Mg	3500-Mg B APHA 22nd Edition, 2012	10-1000 mg/L
		Alkalinity as CaCO ₃	2320 B APHA 22nd Edition, 2012	20-1200 mg/L
		Copper as Cu	3500-Cu B APHA 22nd Edition, 2012	0.1-5.00 mg/L

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		Iron as Fe	3500-Fe B APHA 22nd Edition, 2012	0.05 to 0.7 mg/L
		Manganese as Mn	3500-Mn B APHA 22nd Edition, 2012	0.1-10 mg/L
		Chlorides as Cl	4500-Cl ⁻ APHA 22nd Edition, 2012	5.0-200 mg/L
		Sulphate as SO ₄	4500-SO ₄ ²⁻ - E APHA 22nd Edition, 2012	5.0-200 mg/L
		Nitrate as NO ₃	4500-NO ₃ ⁻ B APHA 22nd Edition, 2012	1-500 mg/L
		Fluoride as F	4500-F ⁻ D APHA 22nd Edition, 2012	0.3-50 mg/L
		Zinc as Zn	3500-Zn APHA 22nd Edition, 2012	0.4-50 mg/L
		Chromium as Cr ⁺⁶	3500-Cr B APHA 22nd Edition, 2012	0.05-50 mg/L
		Residual Free Chlorine	4500-Cl APHA 22nd Edition, 2012	1-100 mg/L
		Boron	4500 B- APHA 22nd Edition 2012	1.00-50 mg/L
		Sodium	3500 Na APHA 22nd Edition 2012	2.00-1000 mg/L
		Potassium	3500- K B APHA 22nd Edition 2012	2.00-1000 mg/L
II.	AIR GASES & ATMOSPHERE			
1.	Ambient Air, Fugitive Emission, Monitoring, Suspended Particulate Matter, Gaseous Pollutants	PM10	IS 5182-Part-23-2006	5.0-15000 µg/ m ³
		PM2.5	Guidelines for determination of PM2.5 in ambient air (Gravimetric Method) , NAAQS Monitoring & Analysis Guidelines Volume-I CPCB, May 2011 (SOP-AAQ-21B, 2012)	5.0-5000 µg/ m ³

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		SO ₂	IS 5182- Part -2-2001	4.0-1050 µg/ m ³
		NO ₂	IS 5182- Part -6-2006	9.0-750 µg/ m ³
2.	Ambient Noise Levels (Excluding Vibration)	Noise Level Leq	IS 10399: 1982 IS 4758-1968	-
3.	Emission – Stationary Source/ Stack	PM	IS 11255- Part -1-2009	5.0-20000 mg/Nm ³
		SO ₂	IS 11255- Part -2-2009	5.0-5000 mg/Nm ³
		NO _x	IS 11255- Part -7-2005	5.0-5000 mg/Nm ³
4.	Soil / Sludge	Mineralizable Nitrogen	IS 14684:1999 (Kjeldahl Method) Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 11.January, 2011	0.28-20 %
		Available Phosphorus	IS 6092: Part 3 : 2004 Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 13, January, 2011	0.4- 30 kg/Ha
		Available Potassium	IS 6092 : Part 4 : 1985 Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 14, January, 2011	10 -100 kg/Ha

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		pH	Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 6; January, 2011; IS 2720 (Part 26)- 1987 Reaffirmed 1997	2.00-12.00
		Organic Carbon	Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 9, January, 2011	0.04-2.5%
		Available Sulphur	IS 14685: 1999 Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 15, January, 2011	0.5-50 mg/kg
		Texture	Methods Manual- Ministry of Agriculture, GoI; 4.6.3, Part 1, January, 2011	Qualitative

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