

Laboratory **Sisodia Research Laboratories Pvt. Ltd., 645 A/461, Janki Vihar, Janakpuram, Lucknow, Uttar Pradesh**

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

Certificate Number **TC-6394**

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Validity **12.10.2017 to 11.10.2019**

Last Amended on --

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	Particulate Matter (PM ₁₀)	IS 5182 (Part 23): 2006 (RA 2012)	10 µg/m ³ to 1000 µg/m ³
		Particulate Matter (PM _{2.5})	SOP- SRL/SOP/A/01-05, Issue date 28/07/2017	10 µg/m ³ to 500 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2012)	4 µg/m ³ to 100 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m ³ to 700 µg/m ³
2.	Stack emission / Source emission	Particulate Matter (PM)	IS 11255 (Part 1): 1985 (RA 2014)	1 µg/m ³ to 5000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2): 1985 (RA 2012)	4 µg/m ³ to 500 mg/Nm ³
		Oxides of Nitrogen (NO _x)	IS 11255 (Part 7): 2005 (RA 2012)	2 µg/m ³ to 800 mg/Nm ³
		Carbon Mono Oxide (CO)	IS 13270: 1992 (RA 2014)	0.1% to 10%
		Oxygen (O ₂)	IS 13270: 1992 (RA 2014)	0.2% to 20%
		Carbon Dioxide (CO ₂)	IS 13270: 1992 (RA 2014)	0.2% to 20%
		Temperature	IS 11255 (Part 3): 1985	1 °C to 650 °C
3.	Ambient Noise Levels (Excluding Vibration)	Ambient Noise Level	IS 9989: 1981 (RA 2008)	30 dB(A) to 130 dB(A)
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents and Sewage)	pH	IS 3025 (Part 11): 1983 (RA 2012)	2 to 12
		Total Solids (TS)	IS 3025 (Part 15): 1993 (RA 2014)	10 mg/l to 1000 mg/l

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		Total Dissolve Solids (TDS)	IS 3025 (Part 16): 1984 (RA 2014)	10 mg/l to 1000 mg/l
		Total Suspended Solid (TSS)	IS 3025 (Part 17): 1984 (RA 2012)	10 mg/l to 1000 mg/l
		Chloride (Cl ⁻)	IS 3025 (Part 32): 1988 (RA 2014)	1 mg/l to 1000 mg/l
		Sulphate (SO ₄ ²⁻)	IS 3025 (Part 24): 1986 (RA 2014)	5 mg/l to 150 mg/l
		Nitrate(NO ₃ ⁻)	IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/l to 50 mg/l
		Iron(Fe)	IS 3025 (Part 53): 2003 (RA 2014)	0.075 mg/l to 25 mg/l
		Fluoride (F ⁻)	IS 3025 (Part 60): 2008 (RA 2013)	0.05 mg/l to 10 mg/l
		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (RA 2014)	5 mg/l to 2000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012)	5 mg/l to 9000 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014)	1 mg/l to 200 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2006)	4 °C to 70 °C
2.	Soil	pH	IS 2720 (Part 26): 1987 (RA 2011)	2 to 12
		Electrical Conductivity(EC)	IS 14767 2000 (RA 2016)	1 uS/cm to 40000 uS/cm
		Moisture	IS 2720 (Part 2) (RA 2015)	0.1% to 50%
		Calcium(CaCO ₃)	IS 2720 (Part 23) (RA 2010)	1% to 20%
		Organic Matter	IS 2720 (Part 22) (RA 2015)	0.1% to 20%
		Sulphate(SO ₄ ⁻)	IS 2720 (Part 27) (RA 2006)	1.1 mg/kg to 1000 mg/kg

Mallika Gope
Convener

N. Venkateswaran
Program Director

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		Specific Gravity	IS 2720 (Part 3) (RA 2011)	2 to 4
		Total Soluble Solids	IS 2720 (Part 21) (RA 2016)	0.01% to 50%
III.	WATER			
1.	Ground Water / Surface Water / Drinking Water	pH	IS 3025 (Part 11): 1983 (RA 2012)	4 to 10
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	1 NTU to 1000 NTU
		Total Solids(TS)	IS 3025 (Part 15): 1984 (RA 2014)	5 mg/l to 1000 mg/l
		Total Dissolve Solids(TDS)	IS 3025 (Part 16): 1984 (RA 2014)	5 mg/l to 2000 mg/l
		Total Hardness	IS 3025 (Part 21): 2009 (RA 2014)	1 mg/l to 600 mg/l
		Calcium(Ca)	IS 3025 (Part 40): 1991 (RA 2014)	1 mg/l to 1000 mg/l
		Magnesium(Mg)	IS 3025 (Part 46): 1994 (RA 2014)	0.1 mg/l to 100 mg/l
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2014)	1 mg/l to 600 mg/l
		Chloride (Cl ⁻)	IS 3025 (Part 32): 1988 (RA 2014)	1 mg/l to 1000 mg/l
		Sulphate (SO ₄ ²⁻)	IS 3025 (Part 24): 1986 (RA 2014)	2 mg/l to 200 mg/l
		Nitrate(NO ₃ ⁻)	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 50 mg/l
		Iron (Fe)	IS 3025 (Part 53): 2003 (RA 2009)	0.075 mg/l to 25 mg/l
		Fluoride (F ⁻)	IS 3025 (Part 60): 2008	0.05 mg/l to 10 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986 (RA 2014)	1 mg/l to 10 mg/l
	Electrical Conductivity/ Specific Conductance	IS 3025 (Part 14): 2013 (RA 2013)	1 uS/cm to 50000 uS/cm	

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		Total Suspended Solid (TSS)	IS 3025 (Part 17): 1984 (RA 2012)	5 mg/l to 1000 mg/l
		Fixed Residue	IS 3025 (Part 18): 1984 (RA 2012)	10 mg/l to 1000 mg/l
		Volatile Residue	IS 3025 (Part 18): 1984 (RA 2012)	10 mg/l to 1000 mg/l

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