

Laboratory **Sanguine Testing & Research Laboratory Pvt. Ltd., 209A, Danda Complex, NIT, Faridabad, Haryana**

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

Certificate Number **TC-6326**

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Validity **27.09.2017 to 26.09.2019**

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.	WATER			
1.	Drinking Water Ground Water Surface Water Swimming pool Water	Colour	IS 3025 (P-4)	5 Hazen to 500 Hazen
		pH	IS 3025 (P-11)	1 to 13
		Turbidity	IS 3025 (P-10)	1 NTU to 1000 NTU
		Total Hardness	IS 3025 (P-21)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (P-32)	1 mg/l to 5000 mg/l
		Residual Free Chlorine	IS 3025 (P-26)	0.1 mg/l to 10 mg/l
		Total Dissolved Solid (TDS)	IS 3025 (P-16)	5 mg/l to 10000 mg/l
		Iron	IS 3025 (P-53)	0.1 mg/l to 10 mg/l
		Fluoride	IS 3025 (P-60)	0.1 mg/l to 25 mg/l
		Alkalinity	IS 3025 (P-23)	2.0 mg/l to 1000 mg/l
		Calcium	IS 3025 (P-40)	1 mg/l to 1000 mg/l
		Magnesium	IS 3025 (P-46)	1 mg/l to 1000 mg/l
		Sulphate	IS 3025 (P-24)	1 mg/l to 1000 mg/l
		Sodium	IS 3025 (P-45)	1 mg/l to 100 mg/l
		Potassium	IS 3025 (P-45)	1 mg/l to 100 mg/l
2.	Construction Water	Phosphorous(P/PO <sub>4</sub> )	IS 3025 (P-31)	0.01 mg/l to 100 mg/l
		Silica	IS 3025 (P-35)	1 mg/l to 100 mg/l
		Dissolved Oxygen (DO)	IS 3025 (P-38)	1 mg/l to 15 mg/l
		Biochemical Oxygen Demand ( BOD)	IS 3025 (P-44)	2 mg/l to 1000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (P-58)	5 mg/l to 1000 mg/l
		pH	IS 456 / IS 3025 (P-11)	1 to 13
		Neutralised Value with 0.02 N-H <sub>2</sub> SO <sub>4</sub> (Alkalinity)	IS 456 / IS 3025 (P-23)	0.1 ml to 50 ml

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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
		Neutralised Value with 0.02 N-NaOH (Acidity)	IS 456 / IS 3025 (P-22)	0.1 ml to 25 ml
		Chloride	IS 456 / IS 3025 (P-32)	1 mg/l to 5000 mg/l
		Sulphate	IS 456 / IS 3025 (P-24)	1 mg/l to 1000 mg/l
		Suspended Solid	IS 456 / IS 3025 (P-17)	5 mg/l to 1000 mg/l
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluents / Sewage)</b>	Colour	IS 3025 (P-4)	Qualitative
		pH	IS 3025 (P-11)	1 to 13
		Total Suspended Solid (TSS)	IS 3025 (P-17)	5 mg/l to 10000 mg/l
		Biochemical Oxygen Demand ( BOD)	IS 3025 (P-44)	2 mg/l to 1000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (P-58)	5 mg/l to 25000 mg/l
		Oil & Grease	IS 3025 (P-39)	2 mg/l to 1000 mg/l
		Total Dissolved Solid (TDS)	IS 3025 (P-16)	10 mg/l to 10000 mg/l
		Temperature	IS 3025 (P-9)	1°C to 100°C
	Conductivity	IS 3025 (P-14)	0.1µS/cm to 10000µS/cm	
	Dissolved Oxygen (DO)	IS 3025 (P-38)	1 mg/l to 10 mg/l	
<b>2.</b>	<b>Soil/Sludge</b>	pH	IS 2720 (P-26)	1 to 12
		Organic Matter	IS 2720 (P-22)	0.1% to 20%

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