

Laboratory **Sona Analytical Lab, N-266, Sanjay Nagar, Sector-23, Ghaziabad, Uttar Pradesh**

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

Certificate Number **TC-7662**

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Validity **06.08.2018 to 05.08.2020**

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 / RO Water/ Ground Water/ Borewell Water	Electrical Conductivity	IS 3025 (Part 14)	1 µmhos/cm to 5000 µmhos/cm
		pH	IS 3025 (Part 11)	2 to 12
		Chloride as Cl	IS 3025 (Part 32) (Agentometric Method)	2 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40) (EDTA Titrimetric Method)	2 mg/l to 1000 mg/l
		Magnesium as Mg	APHA (23 rd Edition 2017) 3500-Mg(B)	0.5 mg/l to 1000 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 (EDTA Titrimetric Method)	2 mg/l to 1000 mg/l
		Turbidity	IS 3025 (Part 10):1984 (RA 2012) (Nephelometric Method)	1 NTU to 100 NTU
		Sulphate as SO ₄	APHA 23 rd ED. 2017, 4500 SO ₄ ²⁻ E (Gravimetric Method)	1 mg/l to 1000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16) (Gravimetric Method)	10 mg/l to 2000 mg/l
		Iron as Fe	APHA (23 rd Edition 2017) 3500 Fe-B: (Phenanthroline Method)	0.2 mg/l to 100 mg/l
		Free Residual Chlorine	APHA (23 rd Edition 2017), 4500 Cl-(B) (Iodometric Method)	1 mg/l to 50 mg/l
		Fluoride as F	APHA (23 rd Edition 2017), 4500 F-(D) (SPANDS Method)	0.2 mg/l to 50 mg/l

Mandeep Kumar
Convenor

Anuja Anand
Program Manager

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		Alkalinity	APHA (23 rd Edition 2017), 2320 (B) (Titrimetric Method)	2 mg/l to 500 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34) (Chromotropic Method)	1 mg/l to 100 mg/l
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water	Electrical Conductivity	IS 3025 (Part 14)	1 µmhos/cm to 5000 µmhos/cm
		pH	IS 3025 (Part 11)	2 to 12
		Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)	2 mg/l to 1000 mg/l
		Chemical Oxygen Demand	APHA (23 rd Edition 2017) 5220/C:2012 (Open Reflux Method)	5 mg/l to 50000 mg/l
		Sulphate as SO ₄	APHA (23 rd Edition 2017) 4500 SO ₄ ⁻² (Gravimetric Method)	1 mg/l to 1000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16) (Gravimetric Method)	10 mg/l to 5000 mg/l
		Total Suspended Solids	IS 3025 (Part 17) (Gravimetric Method)	10 mg/l to 5000 mg/l
		Total Iron as Fe	APHA (23 rd Edition 2017) 3500 Fe-B:2012 (Phenanthroline Method)	0.2 mg/l to 100 mg/l
		Oil & Grease	IS 3025 (Part 39) (Gravimetric Method)	4 mg/l to 100 mg/l
		Free Residual Chlorine	IS 3025 (Part 26) (Iodometric Method)	1 mg/l to 50 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34) (Chromotropic Method)	1 mg/l to 100 mg/l
		Temperature	IS 3025 (Part 9)	25°C to 50°C

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III.	ATMOSPHERE POLLUTION			
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23)	10 µg/m ³ to 1000 µg/m ³
		Sulphur dioxide (SO ₂)	IS 5182 (Part 2)	5 µg/m ³ to 1000 µg/m ³
		Nitrogen dioxide (NO ₂)	IS 5182 (Part 6)	5 µg/m ³ to 1000 µg/m ³
2.	Stack Emission	Particulate Matters	IS11255 (Part 1)	1 mg/Nm ³ to 5000 mg/Nm ³

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CHEMICAL TESTING

At Site				
I.	Atmospheric Pollution			
1.	Noise Testing	Ambient Noise Testing (Leq)	IS 1989	30 dB (A) to 130 dB (A)
		Source Noise Testing dB(A)	IS 9000 (Part 21) IS 9876	30 dB (A) to 130 dB (A)

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