

Laboratory **Sunrise Environmental Lab, H.No. 11-10-1/A, Harikrishna Residency,
Flat No. 302, Vijayapuri Colony, R.K. Puram, Hyderabad, Telangana**

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

Certificate Number **TC-7611**

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Validity **25.07.2018 to 24.07.2020**

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.	POLLUTION & ENVIRONMENT			
1.	Waste Water (STP, ETP Treated & Untreated Water)	pH	IS 3025 (Part 11) Electrometric Method	1 to 12
		Electrical Conductivity	IS 3025 (Part 14)	1 µS/cm to 25000 µS/cm
		Total Solids	IS 3025 (Part 15)	5 mg/L to 15000 mg/L
		Total Suspended Solids (TSS)	IS 3025 (Part 17)	5 mg/L to 1000 mg/L
		Total Dissolved Solids (TDS)	IS 3025 (Part 16)	5 mg/L to 12000 mg/L
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	4 mg/L to 8000 mg/L
		Biological Oxygen Demand (BOD) at 27°C for 3 days	IS 3025 (Part 44)	2 mg/L to 4000 mg/L
		Sulphate as SO ₄	IS 3025 (Part 24) Turbidity Method	4 mg/L to 2500 mg/L
		Chloride as Cl	IS 3025 (Part 32) Argentometric Method	2 mg/L to 5000 mg/L
		Oil & Grease	IS 3025 (Part 39) Partition Gravimetric Method	4 mg/L to 200 mg/L
II.	WATER			
1.	Drinking Water, Raw Water, Bore Well Water, RO Processed Water,	Color	IS 3025 (Part 4)	1 Hazen Units to 100 Hazen Units
		Odor	IS 3025 (Part 5)	Agreeable/ disagreeable

Amit Kumar
Convenor

Anuja Anand
Program Manager

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	Ground Water, Surface Water	pH	IS 3025(Part 11) Electrometric Method	4 to 10
		Electrical Conductivity	IS 3025 (Part 14)	1 uS/cm to 10000 uS/cm
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/L to 5000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21)	1 mg/L to 1000 mg/L
		Turbidity	IS 3025 (Part 10)	0.1 NTU to 100 NTU
		Magnesium Hardness as CaCO ₃	IS 3025 (Part 46)	1 mg/L to 1000 mg/L
		Calcium as Ca	IS 3025 (Part 40) EDTA Titrimetric Method	1 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46) Volumetric Method	1 mg/L to 1000 mg/L
		Carbonate Hardness as CaCO ₃	IS 3025 (Part 21)	1 mg/L to 500 mg/L
		Non-Carbonate Hardness as CaCO ₃	IS 3025 (Part 21)	1 mg/L to 500 mg/L
		Bi-Carbonates as HCO ₃	IS 3025 (Part 51)	1 mg/L to 500 mg/L
		Dissolved Oxygen	IS 3025 (Part 38) Azide Modification	1 mg/L to 10 mg/L
		Chloride as Cl	IS 3025 (Part 32) Argentometric Method	1 mg/L to 1000 mg/L
		Sulphate as SO ₄	IS 3025 (Part 24) Turbidity Method	5 mg/L to 400 mg/L
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	1 mg/L to 500 mg/L
		Alkalinity as CaCO ₃ Phenolphthalein	IS 3025 (Part 23)	1 mg/L to 100 mg/L
	Sodium as Na	IS 3025 (Part 45) Flame Photometry Method	1 mg/L to 400 mg/L	
	Potassium as K	IS 3025 (Part 45) Flame Photometry Method	1 mg/L to 200 mg/L	
	Nitrate as NO ₃	APHA 23 rd Edition (4500NO ₃ ,B)	0.1 mg/L to 250 mg/L	

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		Nitrite as NO ₂	IS 3025 (Part 34) Nitrite, Nitrogen	0.1 mg/L to 50 mg/L
		Silica as SiO ₂	IS 3025(Part 35) Molybdosilicate Method	0.1 mg/L to 100 mg/L
		Iron as Fe	IS 3025(Part-53) 1,10 Phenanthalin	0.1 mg/L to 10 mg/L
		Fluoride as F	APHA 23 rd Edition (4500F,B)	0.1 mg/L to 25 mg/L
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Sulphur Dioxide as SO ₂	IS 5182 (Part 2)	4 µg/m ³ to 300 µg/m ³
		Nitrogen Dioxide as NO ₂	IS 5182 (Part 6)	4 µg/m ³ to 300 µg/m ³
		SPM Suspended Particulate matter	IS 5182 (Part 4)	5 µg/m ³ to 5000 µg/m ³
		RPM (PM 10) Particulate matter (Size less than 10 µm)	IS 5182 (Part 23)	5 µg/m ³ to 1000 µg/m ³
		RPM (PM 2.5) Particulate matter (Size less than 2.5 µm)	SEL/SOP/AIR/PM2.5/01 Issue No:01, Issue Date: 01.07.2017	5 µg/m ³ to 500 µg/m ³

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Program Manager