

Laboratory

Laboratory for Environmental and Civil Testing & Research Centre
Pacific School of Engineering, Palsana Road Highway (NH-8),
Sanki, Tal. Palsana, Dist. Surat, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8358

Page 1 of 3

Validity 21.02.2019 to 20.02.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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	Respirable Suspended Particulate Matter (RSPM)	IS 5182 (Part 23)	10 µg/m ³ to 10000 µg/m ³
		Sulphur Dioxide (SO _x)	IS 5182 (Part 02)	3 µg/m ³ to 1500 µg/m ³
		Oxides of Nitrogen (NO _x)	IS 5182 (Part 06)	6 µg/m ³ to 750 µg/m ³
		PM 2.5	PSE/AA/01 (16/02/2018) (Gravimetric Method)	10 µg/m ³ to 250 µg/m ³
2.	Stack Emissions	Particulate Matter (PM)	IS 11255 (Part 1)	5 mg/Nm ³ to 10000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2)	1 mg/Nm ³ to 50000 mg/Nm ³
		Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)	2 mg/Nm ³ to 1000 mg/Nm ³
II. POLLUTION & ENVIRONMENT				
1.	Waste Water/ Effluent/ Sewage	pH	IS 3025 (Part 11)	2 to 12
		Temperature	IS 3025 (Part 09)	5 °C to 50 °C
		Colour	APHA (23 rd Edition) 2120 B	1 Hazen unit to 500 Hazen unit
		Total Solids	IS 3025 (Part 15)	2 mg/L to 50000 mg/L
		Total Dissolved Solids	IS 3025 (Part 16)	2 mg/L to 50000 mg/L
		Total Suspended Solids	IS 3025 (Part 17)	5 mg/L to 5000 mg/L
		Oil and Grease	IS 3025 (Part 39)	5 mg/L to 100 mg/L
		Chloride	IS 3025 (Part 32)	5 mg/L to 10000 mg/L
		Sulphate	APHA (23 rd Edition) 4500 SO ₄ ²⁻ E	5 mg/L to 1000 mg/L
Dissolved Oxygen (DO)	IS 3025 (Part 38)	1 mg/L to 12 mg/L		

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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
		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)	1 mg/L to 50000 mg/L
		Chemical Oxygen Demand (COD)	APHA (23 rd Edition) 5220 B	10 mg/L to 100000 mg/L
		Ammonical Nitrogen	APHA (23 rd Edition) 4500 NH ₃ B & C	1 mg/L to 20000 mg/L
		Nitrite Nitrogen	APHA (23 rd Edition) 4500 NO ₂ ⁻ B	1 mg/L to 100 mg/L
		Nitrate Nitrogen	APHA (23 rd Edition) 4500 NO ₃ ⁻ B	0.1 mg/L to 50 mg/L
		Chromium (as Cr ⁺⁶)	APHA (23 rd Edition) 3030 E & 3500 Cr B	1 mg/L to 1500 mg/L
		Iron (Fe)	APHA (23 rd Edition) 3500 Fe B	0.5 mg/L to 1500 mg/L
II.	WATER			
1.	Surface Water, Ground Water, Drinking Water, Packaged Drinking Water, Construction Water, Swimming Pool Water, Industrial Water, Irrigation Water, Water from Purifiers	pH	IS 3025 (Part 11)	2 to 12
		Temperature	IS 3025 (Part 09)	5 °C to 50 °C
		Colour	APHA (23 rd Edition) 2120 B	1 Hazen Unit to 500 Hazen Unit
		Total Solids	IS 3025 (Part 15)	5 mg/L to 5000 mg/L
		Total Dissolved Solids	IS 3025 (Part 16)	2 mg/L to 5000 mg/L
		Total Suspended Solids	IS 3025 (Part 17)	2 mg/L to 5000 mg/L
		Total Hardness	IS 3025 (Part 21)	2 mg/L to 5000 mg/L
		Oil and Grease	IS 3025 (Part 39)	5 mg/L to 100 mg/L
		Chloride	IS 3025 (Part 32)	5 mg/L to 1000 mg/L
		Sulphate	APHA (23 rd Edition) 4500 SO ₄ ²⁻ E	5 mg/L to 10000 mg/L
		Dissolved Oxygen (DO)	IS 3025 (Part 38)	1 mg/L to 12 mg/L
	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)	1 mg/L to 750 mg/L	

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		Chemical Oxygen Demand (COD)	APHA (23 rd Edition) 5220 B	10 mg/L to 1200 mg/L
		Ammonical Nitrogen	APHA (23 rd Edition) 4500 NH ₃ B & C	1 mg/L to 500 mg/L
		Nitrite Nitrogen	APHA (23 rd Edition) 4500 NO ₂ ⁻ B	1 mg/L to 100 mg/L
		Nitrate Nitrogen	APHA (23 rd Edition) 4500 NO ₃ ⁻ B	0.1 mg/L to 50 mg/L