

Laboratory **Quality Control Laboratory of Vadodara Enviro Channel Limited, Plot No. 304/1, 317 & 318, At & Post Dhanora, Vadodara, Gujarat**

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

Certificate Number **TC-7158 (in lieu of T-3875)**

Page 1 of 3

Validity **01.04.2018 to 31.03.2020**

Last Amended on 13.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

CHEMICAL TESTING

I.	POLLUTION & ENVIRONMENT			
1.	Wastewater	pH	APHA 4500-H ⁺ B 22 nd Edition (Year 2012), Electrometric Method	2.0 to 13.5
		Chemical Oxygen Demand (COD)	APHA 5220 B 22 nd Edition (Year-2012), Open Reflux Method - Followed by Titrimetric Method	10 mg/L to 30,000 mg/L
		Biological Oxygen Demand (BOD) at 27°C For 3 days	IS 3025 (Part 44): 1993 (RA 1999) (1 st Revision) BOD 3- Days at 27 °C	10 mg/L to 10,000 mg/L
		Ammonical Nitrogen	APHA 4500 NH ₃ .C 22 nd Edition (Year-2012), Titrimetric Method	0.5 mg/L to 500 mg/L
		Color	APHA 2120 C 22 nd Edition (Year-2012), Spectrophotometric-Single Wavelength Method	5.0 Pt. Co. Scale to 1000 Pt. Co. Scale
		Chloride	APHA 4500 Cl ⁻ B 22 nd Edition (Year-2012), Argentometric method	2 mg/L to 20,000 mg/L
		Total Dissolved Solids (TDS) at 180 °C	APHA 2540 C 22 nd Edition (Year-2012)	16 mg/L to 60,000 mg/L
		Total Suspended Solids (TSS) at 103 to 105 °C	APHA 2540 D 22 nd Edition (Year-2012)	10 mg/L to 1000 mg/L
		Total Hardness	APHA 2340 C 22 nd Edition (Year-2012), EDTA titrimetric method	10.0 mg/L to 5000 mg/L as CaCO ₃

Sandeep Singh Tomar
Convenor

N. Venkateswaran
Program Director

Laboratory **Quality Control Laboratory of Vadodara Enviro Channel Limited, Plot No. 304/1, 317 & 318, At & Post Dhanora, Vadodara, Gujarat**

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

Certificate Number **TC-7158 (in lieu of T-3875)**

Page 2 of 3

Validity **01.04.2018 to 31.03.2020**

Last Amended on 13.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alkalinity (Phenolphthalein)	APHA 2320 B 22 nd Edition (Year-2012), Titration Method	5.0 to 2500 mg/L as CaCO ₃
		Silica	APHA 4500 SiO ₂ C 22 nd Edition (Year-2012), Molybdosilicate Method	0.05 mg/L to 10.0 mg/L
		Phenol	APHA 5530 D 22 nd Edition (Year-2012), Direct Photometric Method	0.05 mg/L to 20.0 mg/L
		Lead	APHA 3111 B 22 nd Edition (Year-2012) by AAS	0.9 mg/L to 50 mg/L
		Total Chromium	APHA 3111 B 22 nd Edition (Year-2012) by AAS	1.0 mg/L to 20.0 mg/L
		Nickel	APHA 3111 B 22 nd Edition (Year-2012) by AAS	1.0 mg/L to 50 mg/L
		Zinc	APHA 3111 B 22 nd Edition (Year-2012) by AAS	0.4 mg/L to 10.0 mg/L
		Copper	APHA 3111 B 22 nd Edition (Year-2012) by AAS	1.0 mg/L to 20.0 mg/L
		Cadmium	APHA 3111 B 22 nd Edition (Year-2012) by AAS	0.5 mg/L to 2.0 mg/L
		Dissolve Oxygen (DO)	APHA 22 nd Edition 4500 O-C	0.5 mg/L to 10 mg/L
		Conductivity	APHA 22 nd Edition 2510 B (Lab method) self- contained conductivity instrument	2 µS/cm to 19 mS/cm

Laboratory **Quality Control Laboratory of Vadodara Enviro Channel Limited, Plot No. 304/1, 317 & 318, At & Post Dhanora, Vadodara, Gujarat**

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

Certificate Number **TC-7158 (in lieu of T-3875)**

Page 3 of 3

Validity **01.04.2018 to 31.03.2020**

Last Amended on 13.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphates	APHA 22 nd Edition 4500 SO ₄ ²⁻ E Turbidimetric method	1.0 mg/L to 5000 mg/L
		Iron	APHA 22 nd Edition 3500 Fe – B Phenanthroline method	0.1 mg/L to 50 mg/L

Sandeep Singh Tomar
Convenor

N. Venkateswaran
Program Director