

Laboratory Dell Environmental Monitoring Centre Pvt. Ltd., RZ-4A, Sitapuri, Pankha Road, Uttam Nagar, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6723

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Validity 31.01.2019 to 30.01.2021

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
<u>CHEMICAL TESTING</u>				
I.	WATER			
1.	Water (Raw water, Bore Well Water, Swimming Pool Water & Surface Water)	pH	IS 3025 (Part-11), 1983 RA 2006	2 to 12
		Turbidity	IS 3025 (Part- 10),1984 RA 2006	1 NTU to 500 NTU
		Conductivity at 25°C	IS 3025 (Part-14), 1998	2 µS/cm to 10000 µS/cm
		Temperature	IS 3025 (Part-9),1984 RA 2002	10°C to 60°C
		Total Dissolved Solids	IS 3025 (Part-16),1984 RA 2006	5 mg/l to 7000 mg/l
		Total Solids	IS 3025(Part 15): 1984, RA 2009, Amnd.1 (Gravimetric Method)	5 mg/l to 1000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part- 21), 2009 (EDTA Method)	1 mg/l to 2500 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part-23),1986 RA 2009	2 mg/l to 500mg/l
		Acidity	IS 3025 (Part-22):1986, RA 2009 (Indicator and Titration Method)	5.0 mg/l to 500 mg/L
		Chloride as Cl	IS 3025 (Part- 32),1988 RA 2009 (Argent metric Method)	1 mg/l to 3000 mg/l
		Nitrate as No ₃	APHA 4500-No2 ,B , 23 rd Ed. 2017	0.01 mg/l to 2 mg/l
	Calcium as Ca	IS 3025 (Part-40),1991 RA.2009, Method-5 (EDTA Method)	1 mg/l to 1500 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
		Magnesium as Mg	IS 3025 (Part-46),1994 RA 2009 By Calculation	1 mg/l to 1500 mg/l
		Silica as SiO ₂	APHA 4500-SiO ₂ ,D, 23 rd Ed. 2017	0.1 mg/l to 50 mg/L
		Dissolved Oxygen	APHA 4500-O, B APHA, 23 rd Ed. 2017	0.5 mg/l to 8 mg/L
	Water for Construction	pH	IS 3025 (Part-11) 1983	4 to 12
		Limit Of Acidity (To Neutralized 100 ml of water)	IS 3025 (Part-22) 1983	0.1 ml to 10ml
		Limit Of Alkalinity (To Neutralized 100 ml of water)	IS 3025 (Part-23) 1983	0.1 ml to 100ml
		Inorganic Solid	IS 3025 (Part. 18) 1984	50 mg/l to 3000 mg/l
		Organic Solids	IS 3025 (Part. 18) 1984	50 mg/l to 200 mg/l
		Chloride as Cl	IS 3025 (Part. 32) 1988	5 mg/l to 2000 mg/l
		Total Suspended Solid	IS 3025 (Part. 17) 1984	5 mg/l to 2000 mg/l
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water/ Treated Effluent	pH	APHA 4500 H -B, 23 rd ED 2017	2 to 13.0
		Conductivity	APHA 2510-B, 23 rd ED 2017	1 to 40000 µmhos/cm
		Temperature °C	IS 3025(Part- 9):1984, 23 rd ED 2017	Ambient to 50 °C
		Total Suspended Solids	APHA 2540-D, 23 rd ED 2017	10 mg/l to 5000 mg/l
		Total Dissolved Solids	APHA 2540 C, 23 rd ED 2017	10 mg/l to 15000 mg/l
		Total Solids	APHA 2540 B, 23 rd ED 2017	10 mg/l to 20000 mg/l
		Chemical Oxygen Demand (COD)	APHA 5220 B, 23 rd ED 2017	10 mg/l to 90000 mg/l

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		Bio-Chemical Oxygen Demand BOD) at 25 °C or 27 °C	APHA 5210 B, 23 rd Ed.2017 IS 3025 (Part-44)	5 mg/l to 60000 mg/l
		Oil & Grease	APHA 5520 B, 23 rd ED 2017 (Gravimetric Method)	5 mg/l to 200 mg/l
III.	ATMOSPHERE POLLUTION			
1.	Ambient Air Monitoring	Particulate Matter (PM ₁₀)	IS 5182 (Part-23): 2006 (RA 2012)	10 µgm/m ³ to 1000 µgm/m ³
		Particulate Matter PM _{2.5}	Lab SOP No. DEMC/AIR/SOP/11:2016 Gravimetric Method based on CPCB Manual Volume-1,May 2011/FEM,40 CFR,Part-50, Appendix-L USEPA, Candidate Method-I, 1998:2016	10 µgm/m ³ to 600 µgm/m ³
		Ammonia	APHA-AIR 3 rd Ed. 1989, Method No-4500	5 µgm/m ³ to 500 µgm/m ³
	Stack Emission	Particulate Matter	IS 11255 (Part-1)-1985, RA 2012	5 µgm/m ³ to 1000 mg/m ³
		Sulphur Dioxide as SO ₂	IS 11255 (Part-2)-1985, RA 2003	3 µgm/m ³ to 500 mg/m ³

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CHEMICAL TESTING

AT SITE				
I.	NOISE			
1.	Noise Testing	Ambient Noise (A)	Lab SOP No. DEMC/AIR/SOP/12-2016	34 dB to 130 dB
		Source Noise	Lab SOP No. DEMC/AIR/SOP/12-2016,	34 dB to 130 dB