

Laboratory

Sadekar Enviro Engineers Pvt. Ltd. (Laboratory Division), B-306/307,
Plot No. 61, Patel Estate, Old Betim Road, Bardez, Porvorim, Panaji,
Goa

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7424 (in lieu of T-2190)

Page 1 of 10

Validity 30.06.2018 to 29.06.2020

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.	Surface Water & Ground Water	pH at 25°C	APHA 23 rd Edn. 2017, 4500-H ⁺ B IS 3025 (Part 11):1983 (RA2012)	2 to 12
		Total Dissolved Solids	APHA 23 rd Edn. 2017, 2540-C IS 3025 (Part 16):1984 (RA2012)	5 mg/l to 40000 mg/l
		Chloride as Cl	APHA 23 rd Edn. 2017, 4500-Cl B IS 3025 (Part 32) :1986 (RA 2014)	10 mg/l to 20000 mg/l
		Total Hardness as CaCO ₃	APHA 23 rd Edn. 2017, 2340-C IS 3025 (Part 21): 2009 (RA2014)	2 mg/l to 10000 mg/l
		Sulphate as SO ₄	APHA 23 rd Edn. 2017, 4500-SO ₄ -E IS 3025 (Part 24): 1986 (RA2014)	5 mg/l to 5000 mg/l
		Sulfide as S ₂	APHA 23 rd Edn. 2017, 4500-S ₂ -F IS 3025 (Part 29): 1986 (RA2014)	2 mg/l to 50 mg/l
		Nitrate as NO ₃	APHA 23 rd Edn. 2017, 4500-NO ₃ -B IS 3025 (Part 34): 1988 (RA2014)	1 mg/l to 100 mg/l

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Page 2 of 10

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		Nitrite as NO ₂	APHA 23 rd Edn. 2017, 4500-NO ₂ -B	0.05 mg/l to 10 mg/l
		Phosphorus as PO ₄	APHA 23 rd Edn. 2017, 4500-P-C IS 3025 (Part 31): 1988 (RA2014)	1 mg/l to 1000 mg/l
		Total Suspended Solids	APHA 23 rd Edn. 2017, 2540-D	1 mg/l to 5000 mg/l
		Phenolic Compounds as C ₆ H ₅ OH	APHA 23 rd Edn. 2017, 5530 B-C IS 3025 (Part 43): 1992 (RA2014)	0.02 mg/l to 1.0 mg/l
		Fluoride as F	APHA 23 rd Edn. 2017, 4500 F-D	0.1 mg/l to 50 mg/l
		Turbidity	APHA 23 rd Edn. 2017, 2130-B IS 3025 (Part 5) :1983 (RA 2012)	0.05 NTU to 1000 NTU
		Conductivity at 25°C	APHA 23 rd Edn. 2017, 2510-B	1 µS/cm to 40000 µS/cm
		Ammonia (Total as NH ₃ -N)	APHA 23 rd Edn. 2017, 4500 NH ₃ -B-C IS 3025 (Part 34) :1988 (RA2014)	0.5 mg/l to 100 mg/l
		Total Alkalinity as CaCO ₃	APHA 23 rd Edn. 2017, 2320-B IS 3025 (Part 23) :1986 (RA2014)	1 mg/l to 5000 mg/l
		Free Residual Chlorine	APHA 23 rd Edn. 2017, 4500-CI-C IS 3025 (Part 26) :1986 (RA2014)	0.2 mg/l to 50 mg/l
		Calcium as Ca	APHA 23 rd Edn. 2017, 3500 Ca B	1 mg/l to 5000 mg/l

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Page 3 of 10

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		Magnesium as Mg	APHA 23 rd Edn. 2017, 3500 Mg B	1 mg/l to 5000 mg/l
		Cadmium as Cd	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Lead as Pb	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Zinc as Zn	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 100 mg/l
		Arsenic as As	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Copper as Cu	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Chromium as Cr	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Iron as Fe	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Nickel as Ni	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Mercury as Hg	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.001 mg/l to 1.00 mg/l
		Manganese as Mn	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
		Selenium as Se	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.00 mg/l
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water	pH	APHA 23 rd Edn. 2017, 4500-H+B IS 3025 (Part 11) :1983 (RA2012)	2 to 12

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Page 4 of 10

Validity 30.06.2018 to 29.06.2020

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		Total Dissolved Solids	APHA 23 rd Edn. 2017, 2540-C IS 3025 (Part 16) :1984 (RA2012)	5 mg/l to 40000 mg/l
		Chloride as Cl	APHA 23 rd Edn.2017, 4500-Cl-B IS 3025 (Part 32) :1986 (RA2014)	10 mg/l to 20000 mg/l
		Total Hardness as CaCO ₃	APHA 23 rd Edn. 2017, 2340-C IS 3025 (Part 21) :2009 (RA2014)	2 mg/l to 10000 mg/l
		Sulphate as SO ₄	APHA 23 rd Edn. 2017, 4500-SO ₄ -E IS 3025 (Part 24) :1986 (RA2012)	5 mg/l to 5000 mg/l
		Sulfide as S ₂	APHA 23 rd Edn. 2017, 4500-S ₂ -F IS 3025 (Part 29) :1986 (RA2014)	2 mg/l to 50 mg/l
		Phosphorus as PO ₄	APHA 23 rd Edn. 2017, 4500-P-C IS 3025 (Part 31) :1988 (RA2014)	1 mg/l to 1000 mg/l
		Chemical Oxygen Demand	APHA 23 rd Edn. 2017, 5220-B IS 3025 (Part 58) : 2012	4 mg/l to 50000 mg/l
		Biological Oxygen Demand (at 27°C for 3 days)	IS 3025 (Part 44) :1993 (RA2014)	2 mg/l to 15000 mg/l
		Total Suspended Solids	APHA 23 rd Edn. 2017, 2540-D IS 3025 (Part 15) :1984 (RA2009)	1 mg/l to 5000 mg/l
		Oil and Grease	APHA 23 rd Edn. 2017, 5520-O&G IS 3025 (Part 39) :1991 (RA2014)	1 mg/l to 1000 mg/l

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Page 5 of 10

Validity 30.06.2018 to 29.06.2020

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		Phenolic Compounds as C ₆ H ₅ OH	APHA 23 rd Edn. 2017, 5530 B-C IS 3025 (Part 43) :1992 (RA2014)	0.02 mg/l to 100 mg/l
		Fluoride as F	APHA 23 rd Edn. 2017, 4500 F-D	0.1 mg/l to 50 mg/l
		Turbidity	APHA 23 rd Edn. 2017, 2130-B IS 3025 (Part 5) : 1983 (RA 2012)	0.5 NTU to 1000 NTU
		Conductivity at 25°C	APHA 23 rd Edn. 2017, 2510-B IS 3025 (Part 14) : 2013	1 µS/cm to 40000 µS/cm
		Ammonia (Total as NH ₃ -N)	APHA 23 rd Edn. 2017, 4500 NH ₃ -B-C IS 3025 (Part 34):1988 (RA2014)	0.5 mg/l to 1500 mg/l
		Total Alkalinity as CaCO ₃	APHA 23 rd Edn. 2017, 2320-B IS 3025 (Part 23) :1986 (RA2014)	1 mg/l to 10000 mg/l
		Free Residual Chlorine	APHA 23 rd Edn. 2017, 4500-Cl ₂ C IS 3025 (Part 26):1986 (RA2014)	1 mg/l to 50 mg/l
		Cadmium as Cd	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 100.0 mg/l
		Lead as Pb	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Zinc as Zn	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Arsenic as As	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Copper as Cu	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l

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Page 6 of 10

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		Chromium as Cr	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Calcium as Ca	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	1 mg/l to 5000 mg/l
		Iron as Fe	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Nickel as Ni	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Mercury as Hg	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.001 mg/l to 1.0 mg/l
		Magnesium as Mg	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	1 mg/l to 5000 mg/l
		Manganese as Mn	IS 3025 (Part 2):2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 50.0 mg/l
		Selenium as Se	IS 3025 (Part 2): 2004 (RA 2014) APHA 23 rd Edn. 2017, 3120 B	0.01 mg/l to 5.0 mg/l
2.	Wastes (Solid/Sludge/ Sediment/Slurry)	Aluminium as Al	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	50 mg/kg to 1000 mg/kg
		Arsenic as As	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Copper as Cu	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 1000 mg/kg
		Chromium as Cr	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	4 mg/kg to 1000 mg/kg
		Calcium as Ca	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Cadmium as Cd	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 200 mg/kg
		Iron as Fe	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 10000 mg/kg
		Lead as Pb	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 200 mg/kg

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Page 7 of 10

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		Nickel as Ni	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Mercury as Hg	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Magnesium as Mg	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Manganese as Mn	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	1 mg/kg to 1000 mg/kg
		Selenium as Se	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Zinc as Zn	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 1000 mg/kg
3.	Soil	pH	IS 2720 (Part 26):1987 (RA 2016)	1 to 14
		Electrical Conductivity	IS 14767 : 2000	1 μ S/cm to 2000 μ S/cm
		Organic Matter	IS 2720 (Part 22) :1972 (RA 2015)	1% to 10 %
		Moisture Content	IS 2720 (Part 2) :1973 (RA 2015)	0.1% to 20 %
		Exchangeable Calcium as Ca	SOP No. SEE/LD/SOP-SA/02 Issue No. 03 Issue Date 27/12/2017	20 mg/kg to 1000 mg/kg
		Exchangeable Magnesium as Mg	SOP No. SEE/LD/SOP-SA/23 Issue No. 03 Issue Date 27/12/2017	20 mg/kg to 1000 mg/kg
		Available Chloride as Cl	SOP No. SEE/LD/SOP-SA/11 Issue No. 03 Issue Date 27/12/2017	20 mg/kg to 5000 mg/kg
		Available Sulphate as SO ₄	SOP No. SEE/LD/SOP-SA/16 Issue No. 03 Issue Date 27/12/2017	20 mg/kg to 1000 mg/kg

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Page 8 of 10

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		Available Phosphorus	SOP No. SEE/LD/SOP-SA/05 Issue No. 03 Issue Date 27/12/2017	20 mg/kg to 100 mg/kg
		Aluminium as Al	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	50 mg/kg to 1000 mg/kg
		Arsenic as As	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Copper as Cu	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 1000 mg/kg
		Chromium as Cr	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	4 mg/kg to 1000 mg/kg
		Calcium as Ca	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Cadmium as Cd	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 200 mg/kg
		Iron as Fe	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 10000 mg/kg
		Lead as Pb	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 200 mg/kg
		Nickel as Ni	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Mercury as Hg	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Magnesium as Mg	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	20 mg/kg to 1000 mg/kg
		Manganese as Mn	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	1 mg/kg to 1000 mg/kg
		Selenium as Se	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	0.02 mg/kg to 10 mg/kg
		Zinc as Zn	EPA-3050-B-1996 and EPA 6010D-2014, ICP-OES Method	2 mg/kg to 1000 mg/kg

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Page 9 of 10

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III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	PM ₁₀	IS 5182 (Part 23): 2006, (RA 2012)	5 µg/m ³ to 1000 µg/m ³
		PM _{2.5}	SEE/LD/SOP-AA-04, Issue No. 03, Date 27/12/2017	5 µg/m ³ to 1000 µg/m ³
		Sulphur dioxide SO ₂	IS 5182 (Part 2): 2001, (RA 2012)	3 µg/m ³ to 1000 µg/m ³
		Nitrogen dioxide (NO _x)	IS 5182 (Part 06) Method B: 2006 (RA 2012)	6 µg/m ³ to 420 µg/m ³
		Ammonia (NH ₃)	Method No.401 Based on Methods of Air Sampling and analysis-3 rd edition by J P Lodge	20 µg/m ³ to 700 µg/m ³
		Carbon monoxide (CO)	IS 5182 (Part 10):1999, (RA 2003)	0.2 mg/m ³ to 20 mg/m ³
		Lead (as Pb)	IS 5182 (Part 22): 2004 (RA 2014)	0.10 µg/m ³ to 10 µg/m ³
		Benzene (C ₆ H ₆)	IS 5182 (Part 11): 2006 (RA 2012)	1 µg/m ³ to 500 µg/m ³
		Arsenic (as As)	SEE/LD/SOP-AA-09, Issue No. 03, Date 27/12/2017	5 ng/m ³ to 100 ng/m ³
		Nickel (as Ni)	SEE/LD/SOP-AA-09, Issue No. 03, Date 27/12/2017	5 ng/m ³ to 100 ng/m ³
		Ozone (O ₃)	Method No.411; Based on Methods of Air Sampling and analysis-3 rd edition by J P Lodge	20 µg/m ³ to 1000 µg/m ³
	Benzo(α)Pyrene	IS 5182 (Part 12): 2004 (RA 2014)	2 ng/m ³ to 500 ng/m ³	
2.	Ambient Noise Level	Ambient Noise	IS:9989-1981 (RA 2001)	30 dB (A) to 134 dB (A)

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Page 10 of 10

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3.	Stack Emission	Particulate matter	IS 11255 (Part 1)-1985 (RA 2014)	5 mg/Nm ³ to 5000 mg/Nm ³
		Ammonia (NH ₃)	IS 11255 (Part 6) 1999 (RA 2014)	5 mg/Nm ³ to 500 mg/Nm ³
		Oxides of Nitrogen (NO _x)	IS 11255 (Part 7)-2005 (RA 2012)	2 mg/Nm ³ to 400 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2)-1985 (RA 2014)	3 mg/Nm ³ to 500 mg/Nm ³
		Carbon monoxide	EPA Method 10-1996	1.1 mg/Nm ³ to 5720 mg/Nm ³
		Carbon dioxide (CO ₂)	EPA Method 3A-1989	0.2% to 20 %
		Oxygen (O ₂)	EPA Method 3A-1989	0.2% to 25 %