

Laboratory

S. S. Environics (India) Pvt. Ltd. (Environmental Laboratory), Plot No. 361/2314 "Sustenance Tower", At Patrapada, P.O. Dumduma, District Khurda, Bhubaneswar, Orrisa

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8560

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Validity 05.07.2019 to 04.07.2021

Last Amended on 28.08.2019

"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
I.	ATMOSPHERIC POLLUTION		
1.	Ambient Air	PM 10	IS 5182 (Part 23): 2006 (RA 2017)
		PM 2.5	SSEPL/SOP/AAQ/01, 20/11/2017
		Oxides of Nitrogen	IS 5182 (Part 6): 2006 (RA 2017)
		Sulfur Dioxide	IS 5182 (Part 2): 2001 (RA 2017)
		Carbon Monoxide	SSEPL/SOP/AAQ/02, 20/11/2017
		Ammonia	SSEPL/SOP/AAQ/03, 20/11/2017
		Ozone	SSEPL/SOP/AAQ/04, 20/11/2017
		Lead	SSEPL/SOP/AAQ/05, 20/11/2017
		Arsenic	
		Nickel	
2.	Stack Emission	Particulate Matter	IS 11255 (Part 1): 1985 (RA 2014)
		Velocity	IS 11255 (Part 3): 2008 (RA 2018)
		NO ₂	IS 11255 (Part 7): 2005 (RA 2017)
		CO	SSEPL/SOP/ST/01, 20/11/2017
		SO ₂	IS 11255 (Part 2): 1985 (RA 2014)
II.	WATER		
1.	Water (Potable & Domestic)	pH	APHA (23rd Edition), 2017 SM 4500-H ⁺ B
			IS 3025 (Part 11): 1983 (RA 2017)
		Colour	APHA (23rd Edition), 2017 SM 2120 B
			IS 3025 (Part 4): 1983 (RA 2017)
		Turbidity	APHA (23rd Edition), 2017, SM 2130 B
			IS 3025 (Part 10): 1983 (RA 2017)
		TSS	APHA (23rd Edition), 2017, SM 2540 D
			IS 3025 (Part 17): 1984 (RA 2017)
		TDS	APHA (23rd Edition), 2017, SM 2540 C
			IS 3025 (Part 16): 1984 (RA 2017)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
		Conductivity	APHA (23rd Edition), 2017, SM 2510-B
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2019)
		Dissolved Oxygen	APHA (23rd Edition), 2017, SM 4500-O, B, C
			IS 3025 (Part 38): 1989 (RA 2019)
		BOD	APHA (23rd Edition), 2017, SM 5210-B
			IS 3025 (Part 44): 1993 (RA 2019)
		COD	APHA (23rd Edition), 2017, SM 5220 B
			IS 3025 (Part 58): 2006 (RA 2017)
		Alkalinity	APHA (23rd Edition), 2017, SM 2320 B
			IS 3025 (Part 23): 1986 (RA 2019)
		Total Hardness	APHA (23rd Edition), 2017, SM 2340 C
			IS 3025 (Part 21): 2009 (RA 2019)
		Chloride	APHA (23rd Edition), 2017, 4500 Cl ⁻ B
			IS 3025 (Part 32): 1986 (RA 2019)
		Hexavalent Chromium as Cr ⁺⁶	APHA (23rd Edition), 2017 SM 3500 Cr B
			IS 3025 (Part 52): 2003 (RA 2019)
		Phenolic Compounds as C ₆ H ₅ OH	APHA (23rd Edition), 2017, SM 5530 D
		Cyanide as CN	APHA (23rd Edition), 2017, SM 4500-CN C, E
			IS 3025 (Part 27): 1986 (RA 2019)
		Nitrate as NO ₃	APHA (23rd Edition), 2017, SM 4500-NO ₃ ⁻ B
			IS 3025 (Part 34): 1988 (RA 2019)
		Ammonical Nitrogen	APHA (23rd Edition), 2017, SM 4500-NH ₃ F
		Nitrite	APHA (23rd Edition), 2017, SM 4500-NO ₂ B
			IS 3025 (Part 34): 1988 (RA 2019)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
		Free Ammonia	IS 3025 (Part 34): 1988 (RA 2019)
		Dissolved Phosphate	APHA (23rd Edition), 2017, SM 4500-P D
		Sulphide	APHA (23rd Edition), 2017, SM 4500-S ₂ F
		Sulphate	APHA (23rd Edition), 2017, 4500 SO ₄ ²⁻ E
			IS 3025 (Part 24): 1986 (RA 2019)
		Fluoride	APHA (23rd Edition), 2017, SM 4500 B, C
		Lead	APHA (23rd Edition), 2017 3120 B
		Arsenic	APHA (23rd Edition), 2017 3120 B
		Copper	APHA (23rd Edition), 2017 3120 B
		Iron	APHA (23rd Edition), 2017 3120 B
		Aluminium	APHA (23rd Edition), 2017 3120 B
		Chromium (Total)	APHA (23rd Edition), 2017 3120 B
		Calcium	APHA (23rd Edition), 2017 3500 Ca B
			IS 3025 (Part 40): 1991 (RA 2019)
		Magnesium (as Mg)	APHA (23rd Edition), 2017 SM 3500
		Zinc	APHA (23rd Edition), 2017 3120 B
		Cadmium	APHA (23rd Edition), 2017 3120 B
		Selenium	APHA (23rd Edition), 2017 3120 B
		Manganese (as Mn)	APHA (23rd Edition), 2017 3120 B
		Mercury (as Hg)	APHA (23rd Edition), 2017 3120 B
		Boron (as B)	APHA (23rd Edition), 2017 3120 B
		Sodium (as Na)	APHA (23rd Edition), 2017 3120 B
		Potassium (as K)	APHA (23rd Edition), 2017 3120 B
		Nickel (as Ni)	APHA (23rd Edition), 2017 3120 B
		Silver (as Ag)	APHA (23rd Edition), 2017 3120 B
		Barium (as Ba)	APHA (23rd Edition), 2017 3120 B

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
III.	POLLUTION & ENVIRONMENT		
1.	Waste Water	pH	APHA (23rd Edition), 2017, SM 4500-H ⁺ B IS 3025 (Part 11): 1983 (RA 2017)
		Colour	APHA (23rd Edition), 2017, SM 2120 B IS 3025 (Part 4): 1983 (RA 2017)
		TSS	APHA (23rd Edition), 2017, SM 2540 D IS 3025 (Part 17): 1984 (RA 2017)
		TDS	APHA (23rd Edition), 2017, SM 2540 C IS 3025 (Part 16): 1984 (RA 2017)
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2019)
		Dissolved Oxygen	APHA (23rd Edition), 2017, (4500-O, B, C) IS 3025 (Part 38): 1989 (RA 2019)
		BOD	APHA (23rd Edition), 2017, SM 5210-B IS 3025 (Part 44): 1993 (RA 2019)
		COD	APHA (23rd Edition), 2017, SM 5220 B IS 3025 (Part 58): 2006 (RA 2017)
		Chloride	APHA (23rd Edition), 2017, 4500 Cl ⁻ B IS 3025 (Part 32): 1986 (RA 2019)
		Hexavalent Chromium as Cr ⁺⁶	APHA (23rd Edition), 2017, SM 3500 Cr B IS 3025 (Part 52): 2003 (RA 2019)
		Phenolic Compounds as C ₆ H ₅ OH	APHA (23rd Edition), 2017, SM 5530D
		Nitrate as NO ₃	APHA (23rd Edition), 2017, SM 4500-NO ₃ ⁻ B IS 3025 (Part 34): 1988 (RA 2019)
		Ammonical Nitrogen	APHA (23rd Edition), 2017, SM 4500-NH ₃ F

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
		Total Kjeldahl Nitrogen	APHA (23rd Edition), 2017, SM 4500-Norg B
		Total Nitrogen	IS 3025 (Part 34): 1988 (RA 2019)
		Free Ammonia	IS 3025 (Part 34): 1988 (RA 2019)
		Dissolved Phosphate	APHA (23rd Edition), 2017, SM 4500-P D
		Sulphide	APHA (23rd Edition), 2017, SM 4500-S ₂ F
		Sulphate	APHA (23rd Edition), 2017, 4500 SO ₄ ²⁻ E
			IS 3025 (Part 24): 1986 (RA 2019)
		Fluoride	APHA (23rd Edition), 2017, 4500 B, C
		Lead	APHA (23rd Edition), 2017 3120 B
		Arsenic	APHA (23rd Edition), 2017 3120 B
		Copper	APHA (23rd Edition), 2017 3120 B
		Iron	APHA (23rd Edition), 2017 3120 B
		Aluminium	APHA (23rd Edition), 2017 3120 B
		Chromium (Total)	APHA (23rd Edition), 2017 3120 B
		Zinc	APHA (23rd Edition), 2017 3120 B
		Mercury	APHA (23rd Edition), 2017 3120 B
		Selenium	APHA (23rd Edition), 2017 3120 B
		Nickel	APHA (23rd Edition), 2017 3120 B
		Manganese	APHA (23rd Edition), 2017 3120 B
		Calcium	APHA (23rd Edition), 2017 3500 Ca B
			IS 3025 (Part 40): 1991 (RA 2019)
		Magnesium (as Mg)	APHA (23rd Edition), 2017 3500 Mg