

Laboratory	Sky Lab Analytical Laboratory (Environmental Laboratory), Chintamani Smruti Apt., 1st Floor, Parnaka, Kalyan (W), Dist. Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	15.09.2014
Certificate Number	T-2269	Valid Until	14.09.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. AIR, GASES & ATMOSPHERE				
1.	Ambient Air	Suspended Particulate Matter	IS 5182 (Part 4): 1999	25 µg/m ³ to 1000 µg/m ³
		PM 2.5	SAL/SOP/02-NAAQS Monitoring & analysis (CPCB Guidelines Vol.1)	10 µg/m ³ to 100 µg/m ³
		PM 10	IS 5182 : 2006 (Part 23)	20 µg/m ³ to 500 µg/m ³
		Sulphur dioxide	IS 5182 : 2001 (Part 2)	4 µg/m ³ to 1050 µg/m ³
		Nitrogen Oxides	IS 5182 : 2006 (Part 6)	6 µg/m ³ to 750 µg/m ³
		Ammonia	APHA 3 rd Edition 42604-01-72 T Method - 401	20 µg/m ³ to 700 µg/m ³
		2.	Stack Emission Monitoring	Total particulate matter
Nitrogen Oxide	IS 11255 : 2005 (Part 7)			2 mg/Nm ³ to 400 mg/Nm ³
Sulfur Dioxide	IS 11255 : 1985 (Part II)			2 mg/Nm ³ to 1000 mg/Nm ³
3.	Fugitive Emission Monitoring	Suspended particulate matter	IS 5182 : 1999 (Part 4)	20 µg/m ³ to 300 µg/m ³
		PM 10	IS 5182 : 2006 (Part 23)	10 µg/m ³ to 200 µg/m ³

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II. NOISE MONITORING (EXCLUDING VIBRATION)				
1.	Ambient & Work Zone Monitoring	Noise Level	IS 9989 : 1981 (RA 2001)	30 dB(A) to 130 dB(A)
III. WATER				
1.	Drinking water, Swimming pool water, Sea water, Construction water	Colour	APHA 22 nd Ed., 2120 B	5 Hazen Units to 20 Hazen Units
		Odour	APHA 22 nd Ed., 2150 B	NA
		Turbidity	APHA 22 nd Ed., 2130 B	1 NTU to 10 NTU
		pH	APHA 22 nd Ed., 4500-H+B	0 to 14
		Total Hardness	APHA 22 nd Ed., 2340 C	10 mg/L to 1000 mg/L
		Sulphate	APHA 22 nd Ed., 4500- SO ₄ ²⁻ E	5 mg/L to 40 mg/L
		Chloride	APHA 22 nd Ed., 4500 Cl-B	10 mg/L to 600 mg/L >600 mg/L
		Fluoride	APHA 22 nd Ed., 4500 F-D	0.1 mg/L to 2.0 mg/L
		Total Dissolved Solid	APHA 22 nd Ed., 2540 C	1 mg/L to 2000 mg/L
	Residual Chlorine	APHA 22 nd Ed., 4500 Cl-B	0.1 mg/L to 5.0 mg/L	

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	Drinking water, Swimming pool water, Sea water, Construction water	Phosphate	APHA 22 nd Ed., 4500 P-E	0.1 mg/L to 5 mg/L
		Alkalinity	APHA 22 nd Ed., 2310 B	10 mg/L to 300 mg/L
		Hexavalent Chromium	APHA 22 nd Ed., 3500 Cr-B	10 µg/L to 50 µg/L
		Total Chromium	APHA 22 nd Ed., 3500 Cr-B	20 µg/L to 100 µg/L
		Boron	APHA 22 nd Ed., 4500 B - C	0.5 mg/L to 5 mg/L
		Iron	APHA 22 nd Ed., 3500 Fe B	0.05 mg/L to 1 mg/L
		Calcium	APHA 22 nd Ed., 3500 Ca B	5 mg/L to 200 mg/L
		Magnesium	By Calculation	0.2 mg/L to 30 mg/L
		Conductivity	APHA 22 nd Ed., 2510 - B	0.01 mS/cm to 0.2 mS/cm
		Bio Chemical Oxygen Demand (BOD)	APHA 22 nd Ed., 5210-D BIS : 3025 (Part 44): 1993	2 mg/L to 25 mg/L
		Chemical Oxygen Demand (COD)	APHA 22 nd Ed., 5220-B	4 mg/L to 100 mg/L >500 mg/L
		Total suspended solids	APHA 22 nd Ed., 2540 D	5 mg/L to 50 mg/L

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	Drinking water, Swimming pool water, Sea water, Construction water	Acidity as CaCO ₃	APHA 22 nd Ed., Titrimetric method 2310 B	5 mg/L to 500 mg/L
		Dissolve Oxygen	APHA 22 nd Ed., Azide Modification 4500 O-B	1.0 mg/L to 8.0 mg/L
		Ammonical Nitrogen	APHA 22 nd Ed., 2012, 4500-NH3-F	0.05 mg/L to 5 mg/L
		Copper	APHA 22 nd Ed., 2012, 3111B	0.01 mg/L to 2 mg/L
		Zinc	APHA 22 nd Ed., 2012 3030 D, 3111B	0.1 mg/L to 15 mg/L
		Nickel	APHA 22 nd Ed., 3030D, 3111B	0.05 mg/L to 5 mg/L
		Nitrate	APHA 22 nd Ed., 2012 4500 NO ₃ -B-	1 mg/L to 100 mg/L
		Nitrite	APHA 22 nd Ed., 2012 4500 NO ₂ -B-	0.02 mg/L to 10 mg/L
		Cadmium	APHA 22 nd Ed., 2012 - 3111B	0.01 mg/L to 0.2 mg/L
		Arsenic	APHA 22 nd Ed., 2012 - 3114 C Hydride generation	5 µg/L to 100 µg/L

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	Drinking water, Swimming pool water, Sea water, Construction water	Mercury	APHA 22 nd Ed., 2012 - 3112B Hydride generation	0.5 µg/L to 1 µg/L
		Sodium	APHA 22 nd Ed., 2012 3500 Na-B	0.5 mg/L to 50 mg/L
		Potassium	APHA 22 nd Ed., 2012 3500 K-B	0.5 mg/L to 25 mg/L
2.	Waste Water	Colour	APHA 22 nd Ed., 2120 B	1 Hazen Units to 100 Hazen Units
		Odour	APHA 22 nd Ed., 2150 B	NA
		Turbidity	APHA 22 nd Ed., 2130 B	1 NTU to 1000 NTU
		pH	APHA 22 nd Ed., 4500-H+B	0 to 14
		Total Hardness	APHA 22 nd Ed., 2340 C	10 mg/L to 1000 mg/L
		Sulphate	APHA 22 nd Ed., 4500- SO ₄ ²⁻ E	0.5 mg/L to 40 mg/L >40 mg/L
		Chloride	APHA 22 nd Ed., 4500 Cl-B	0.5 mg/L to 600 mg/L >600 mg/L
		Fluoride	APHA 22 nd Ed., 4500 F-D	0.1 mg/L to 5.0 mg/L
		Total Dissolved Solid	APHA 22 nd Ed., 2540 C	1 mg/L to 10000 mg/L

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	Waste Water	Residual Chlorine	APHA 22 nd Ed., 4500 Cl-B	0.1 mg/L to 5.0 mg/L
		Phosphate	APHA 22 nd Ed., 4500 P-E	0.1 mg/L to 20 mg/L
		Alkalinity	APHA 22 nd Ed., 2310 B	10 mg/L to 300 mg/L
		Hexavalent Chromium	APHA 22 nd Ed., 3500 Cr-B	100 µg/L to 10000 µg/L
		Total Chromium	APHA 22 nd Ed., 3500 Cr-B	100 µg/L to 10000 µg/L
		Boron	APHA 22 nd Ed., 4500 B - C	0.1 mg/L to 10 mg/L
		Iron	APHA 22 nd Ed., 3500 Fe B	0.05 mg/L to 100 mg/L
		Calcium	APHA 22 nd Ed., 3500 Ca B	5 mg/L to 1000 mg/L
		Magnesium	By Calculation	2 mg/L to 500 mg/L
		Conductivity	APHA 22 nd Ed., 2510 - B	0.001 mS/cm to 1000 mS/cm
		Bio Chemical Oxygen Demand (BOD)	APHA 22 nd Ed., 5210-D BIS : 3025 (Part 44): 1993	5 mg/L to 4000 mg/L
		Chemical Oxygen Demand (COD)	APHA 22 nd Ed., 5220-B	2 mg/L to 500 mg/L >500 mg/L
		Oil & Grease	APHA 22 nd Ed., 5520-B	50 mg/L to 2000 mg/L

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	Waste Water	Total suspended solids	APHA 22 nd Ed., 2540 D	5 mg/L to 1000 mg/L
		Acidity as CaCO ₃	APHA 22 nd Ed., Titrimetric method 2310 B	5 mg/L to 500 mg/L
		Dissolve Oxygen	APHA 22 nd Ed., Azide Modification 4500 O-B	1.0 mg/L to 15.0 mg/L
		Ammonical Nitrogen	APHA 22 nd Ed., 2012, 4500-NH3-F	0.5 mg/L to 100 mg/L
		Copper	APHA 22 nd Ed., 2012, 3111B	0.1 mg/L to 15 mg/L
		Zinc	APHA 22 nd Ed., 2012 3030 D, 3111B	0.1 mg/L to 25 mg/L
		Nickel	APHA 22 nd Ed., 3030D, 3111B	0.2 mg/L to 10 mg/L
		Nitrate	APHA 22 nd Ed., 2012 4500 NO ₃ -B-	0.1 mg/L to 100 mg/L
		Nitrite	APHA 22 nd Ed., 2012 4500 NO ₂ -B-	0.02 mg/L to 50 mg/L
		Lead	APHA 22 nd Ed., 2012 - 3111B	1.0 mg/L to 100 mg/L
		Cadmium	APHA 22 nd Ed., 2012 - 3111B	0.01 mg/L to 20 mg/L

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	Waste Water	Arsenic	APHA 22 nd Ed., 2012 - 3114 C Hydride generation	5 µg/L to 100 µg/L
		Mercury	APHA 22 nd Ed., 2012 - 3112B Hydride generation	1 µg/L to 100 µg/L
		Sodium	APHA 22 nd Ed., 2012 3500 Na-B	0.5 mg/L to 400 mg/L
		Potassium	APHA 22 nd Ed., 2012 3500 K-B	0.5 mg/L to 400 mg/L

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