Laboratory	**Accurate Analysers Pvt. Ltd., F-20, MIDC, Ambad, Nashik, Maharashtra**	
Accreditation Standard	**ISO/IEC 17025: 2005**	
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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

CHEMICAL TESTING

I.	**ATMOSPHERIC POLLUTION**			
1.	**Ambient Air Monitoring**	Particulate Matter ($PM_{2.5}$)	USEPA-40CFR-Part 50-53, Appendix-L (FRM/FEM Candidate Methods) Lab SOP/QC/A10 (Issue Date 21.09.2017)	15 µg/m3 to 1000 µg/m^3
		Particulate Matter (PM_{10})	IS 5182(Part 23): 2006 Cyclonic Flow Tech.	10 µg/m3 to 1000 µg/m^3
		Sulphur Dioxide	IS 5182 (Part 2): 2001 Colorimetric Method, Modified West & Geake Method	25 µg/m3 to 1050 µg /m^3
		Oxide of Nitrogen	IS 5182(Part 6): 2006 Colorimetric Method	6 µg/m3 to 420 µg/m^3
		Ozone	Lab SOP/QC/A 09 (Issue Date 21.09.2017)	10 µg/m^3 to 400 µg/m^3
		Ammonia	Lab SOP/QC/A08, Indo Phenol Method (Issue Date 21.09.2017)	10 µg/m^3 to 400 µg/m^3
2.	**Stack Emission Monitoring**	Particulate Matter (PM) (except incinerators, Boilers & DG Sets.)	IS11255 (Part 1): 1985 Gravimetric Method	10 mg/Nm3 to 1000 mg/Nm^3
		Sulphur Dioxide	IS 11255 (Part 2):1985, Titrimetric IPA Thorine	5 mg/Nm3 to 500 mg/Nm^3
		Oxides of Nitrogen	IS 11255 (Part 7):2005, PDSA Colorimetric	2 mg/Nm3 to 400 mg/Nm^3
II.	**POLLUTION & ENVIRONMENT**			
1.	**Waste Water / Effluent /Sewage**	Biochemical Oxygen Demand 3 days @ 27°C	IS 3025 (Part 44) :1993, Iodometric Method, 3 days at 27^0C	5 mg/L to 3000 mg/L

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		Chemical Oxygen Demand	IS 3025 (Part 58): 2006, Open Reflux Method	05 mg/L to 5000 mg/L
		Chloride as Cl^-	APHA, 23rd Ed., 2017 4500-Cl, B, 4-75 IS 3025 (Part 32) :1988 Argentometric Method	5 mg/L to 5000 mg/L
		Dissolved Oxygen	APHA, 23rd Ed., 2017, 4500-O, B & C, 4-144 & 4-146, IS 3025 (Part 38) :1989, Winkler Method	0.5 mg/L to 12 mg/L
		pH	APHA, 23rd Ed., 2017 4500-H^+, B-4-95 , IS 3025(Part 11) 1983, Electrometric Method	3 to 12
		Oil & Grease	APHA, 23rd Ed., 2017, 5520-B,, 5-42 Liquid-liquid Partition Gravimetric Method, IS 3025 (Part 39) :1991 Partition Gravimetric Method & Partition Gravimetric Method	4.5 mg/L to 100 mg/L
		Sulphate (as SO_4^{2-})	APHA, 23rd Ed., 2017, 4500-SO_4, E-4-499, IS 3025 (Part 24) :1986, RA 2009 Turbidity Method	3 mg/L to 3000 mg/L
		Total Dissolved Solids	APHA, 23rd Ed., 2017 2540-C-2-69 , IS 3025 (Part 16) : 1984, Gravimetric Method	5 mg/L to 10000 mg/L
		Total Suspended Solids	APHA, 23rd Ed., 2017 2540 D-2-70, IS 3025 (Part 17):1984 Gravimetric Method	5 mg/L to 1000 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
		Total Acidity as Calcium carbonate	APHA, 23rd Ed., 2017, 2310-B-2-34 , IS 3025 (Part 22):1986, Titration Method	0.5 mg/L to 500 mg/L
		Total Alkalinity as Calcium carbonate	APHA, 23rd Ed., 2017, 2320-B-2-37 , IS 3025 (Part 23):1986, Titration Method (Amendment No.1 September 2000)	0.5 mg/L to 500 mg/L
III.	**WATER**			
1.	**Surface water/ ground & Borewell water**	Biochemical Oxygen Demand 3 days @ 27°C	IS 3025 (Part 44) :1993, Iodometric Method, 3 days at 27^0C	5 mg/L to 3000 mg/L
		Chemical Oxygen Demand	APHA, 23rd Ed., 2017, 5220-B , 5-18 Open Reflux Method, IS 3025 (Part 58): 2006 ,Open Reflux Method	05 mg/L to 5000 mg/L
		Chloride as Cl^-	APHA, 23rd Ed., 2017 4500-Cl, B, 4-75 , IS 3025 (Part 32) :1988 Argentometric Method	5 mg/L to 5000 mg/L
		Dissolved Oxygen	APHA, 23rd Ed., 2017, 4500-O, B & C, 4-144 & 4-146 , IS 3025 (Part 38) :1989, Winkler Method	0.5 mg/L to 12 mg/L
		pH	APHA, 23rd Ed., 2017 4500-H^+, B-4-95 , IS 3025(Part 11) 1983, Electrometric Method	3 to 12
		Oil & Grease	APHA, 23rd Ed., 2017, 5520-B,, 5-42 Liquid-liquid Partition Gravimetric Method,	4.5 mg/L to 100 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
			IS 3025 (Part 39) :1991 Partition Gravimetric Method & Partition Gravimetric Method	
		Sulphate (as SO_4^{2-})	APHA, 23rd Ed., 2017, 4500-SO_4, E-4-499, IS 3025 (Part 24) :1986, RA 2009 Turbidity Method	3 mg/L to 3000 mg/L
		Total Dissolved Solids	APHA, 23rd Ed., 2017 2540-C-2-69, IS 3025 (Part 16) : 1984, Gravimetric Method	5 mg/L to 10000 mg/L
		Total Suspended Solids	APHA, 23rd Ed., 2017 2540 D-2-70, IS 3025 (Part 17):1984 Gravimetric Method	5 mg/L to 1000 mg/L
		Total Acidity as Calcium carbonate	APHA, 23rd Ed., 2017, 2310-B-2-34, IS 3025 (Part 22):1986, Titration Method	0.5 mg/L to 500 mg/L
		Total Alkalinity as Calcium carbonate	APHA, 23rd Ed., 2017, 2320-B-2-37, IS 3025 (Part 23):1986, Titration Method (Amendment No.1 September 2000)	0.5 mg/L to 500 mg/L
2.	**Drinking water & Borewell water**	Chloride as Cl^-	APHA, 23rd Ed., 2017 4500-Cl, B, 4-75 , IS 3025 (Part 32) :1988 Argentometric Method	5 mg/L to 250 mg/L
		pH	APHA, 23rd Ed., 2017 4500-H^+, B-4-95, IS 3025(Part 11) 1983, Electrometric Method	3 to 12

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		Mineral oil	APHA, 23rd Ed., 2017, 5520-B,, 5-42 Liquid-liquid Partition Gravimetric Method, IS 3025 (Part 39) :1991 Partition Gravimetric Method & CPCB Guidelines Partition Gravimetric Method	0.5 mg/L to 10 mg/L
		Sulphate (as SO_4^{2-})	APHA, 23rd Ed., 2017, 4500-SO_4, E-4-499, IS 3025 (Part 24) :1986, RA 2009 Turbidity Method	3 mg/L to 200 mg/L
		Total Dissolved Solids	APHA, 23rd Ed., 2017 2540-C-2-69 , IS 3025 (Part 16) : 1984, Gravimetric Method	5 mg/L to 500 mg/L
		Total Suspended Solids	APHA, 23rd Ed., 2017 2540 D-2-70, IS 3025 (Part 17):1984 Gravimetric Method	5 mg/L to 500 mg/L
		Total Acidity as Calcium carbonate	APHA, 23rd Ed., 2017, 2310-B-2-34 , IS 3025 (Part 22):1986, Titration Method	0.5 mg/L to 500 mg/L
		Total Alkalinity as Calcium carbonate	APHA, 23rd Ed., 2017, 2320-B-2-37, IS 3025 (Part 23):1986, Titration Method (Amendment No.1 September 2000)	0.5 mg/L to 500 mg/L

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