Laboratory	ENVIPRO Laboratories, 2nd Floor, Sy. No. 63/4, Site No. 5, P&T Layout Road, Ashwath Nagar, Srigandhada Kaval, Sunkadakatte, Bangalore, Karnataka	
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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test	-	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

Ι.	WATER			
1.	Surface Water, Ground Water,	рН	IS:3025(Part-11) Electrometric Method	2 to 12
	Industrial Water, Drinking Water, Irrigation Water, Water From	Colour	IS:3025(Part-04) Platinum Cobalt (Visual Comparison Method)	1 Hazen to 15 Hazen
	Purifiers & Swimming Pool Water	Electrical Conductivity Total Dissolved Solids	IS:3025(Part-14) IS:3025(Part-16) (Gravimetric Method)	1 μS/cm to 40000 μS/cm 20 mg/l to 10000 mg/l
		Turbidity	IS:3025(Part-10) (Nephelometric Method)	0.1 NTU to 100 NTU
		Total Hardness as CaCo₃	IS:3025(Part-21) (EDTA Method) APHA 2340 C (EDTA Titrimetric Method)	2 mg/l to 25000 mg/l
		Calcium as Ca ²⁺	IS:3025 (Part-40) (EDTA Titrimetric Method) APHA 3500-Ca B (EDTA Titrimetric Method)	1 mg/l to 10000 mg/l
		Magnesium as Mg ²⁺	APHA 3500-Mg B Calculation Method	1 mg/l to 10000 mg/l
		Chloride as Cl	IS:3025(Part-32) (Argentometric Method)	1 mg/l to 25000 mg/l
		Total Alkalinity as CaCo ₃	IS:3025(Part-23) (Indicator Method)	2 mg/l to 5000 mg/l
		Sulphate as SO ₄	IS:3025(Part-24) (Turbidity Method)	1 mg/l to 1000 mg/l
		Fluoride as F	APHA 4500- F ⁻ D (SPADNS Method)	0.1 mg/l to 10 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrate Nitrogen as NO ₃	IS:3025(Part-34) (Chromotropic Acid Method)	0.05 mg/l to 50 mg/l
		Carbonate as CO ₃	IS:3025(Part-51) (Titrimetric Method)	0 to 5000 mg/l
		Bicarbonate HCO ₃	IS:3025(Part-51) (Titrimetric Method)	2 mg/l to 5000 mg/l
		Dissolved Oxygen	IS:3025(Part-38) (Winkler Method)	0 to 10 mg/l
		Potassium as K	APHA 3500-K B (Flame Photometric Method)	1 mg/l to 1000 mg/l
		Sodium as Na	APHA 3500-Na (Flame Emission Photometric Method)	1 mg/l to 1000 mg/l
		Residual Free Chlorine	IS:3025(Part-26) (Iodometric Method)	0.1 mg/l to 50 mg/l
		Oil & Grease	IS:3025(Part-39) (Partition Gravimetric Method)	1 mg/l to 100 mg/l
		Total Iron	IS:3025(Part-53) (Phenonthraline Method)	0.1 mg/l to 10 mg/l
II.	POLLUTION & ENVI	RONMENT		
1.	Waste Water (Sewage/ Effluent)	рН	IS:3025(Part-11) (Electrometric Method)	1 to 14
		Turbidity	IS:3025(Part-10) (Nephelometric Method)	0.1 NTU to 1000 NTU
		Residual Free Chlorine	IS:3025(Part-26) Iodometric Method	0.1 mg/l to 50 mg/l
		Total Suspended Solids	IS:3025(Part-17) (Gravimetric Method)	2 mg/l to 200000 mg/l

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		Oil & Grease	IS:3025(Part-39) (Gravimetric Method)	1 mg/l to 100 mg/l
		Total Dissolved Solids	IS:3025(Part-16) (Gravimetric Method)	20 mg/l to 10000 mg/l
		Chemical Oxygen Demand	IS:3025(Part-58)	4 mg/l to 10000 mg/l
		Biochemical Oxygen Demand (3 days) 27°C	IS:3025(Part-44)	1 mg/l to 15000 mg/l
		Chloride as Cl	IS:3025(Part-32) (Argentometric Method)	0.5 mg/l to 10000 mg/l
		Total Alkalinity as CaCo ₃	IS:3025(Part-23) (Indicator Method)	2 mg/l to 5000 mg/l
		Ammonical Nitrogen	IS:3025(Part-34) (Titrimetric Method)	1 mg/l to 500 mg/l
		Nitrate Nitrogen as NO ₃	IS:3025(Part-34) (Chromotropic Acid Method)	1 mg/l to 1000 mg/l
		Nitrite nitrogen as NO ₂	IS:3025(Part-34) (Spectrophotometric Method)	0.01 mg/l to 50 mg/l
		Electrical conductivity @ 25° C	IS:3025(Part-14) (Instrumental Method)	1 μS/cm to 100000 μS/cm
		Fluoride as F	APHA 4500- F ⁻ D (SPADNS Method)	0.1 mg/l to 10 mg/l
		Calcium as Ca ²⁺	IS:3025(Part-40) (EDTA Titrimetric Method) APHA 3500-Ca B (EDTA Titrimetric Method)	1 mg/l to 10000 mg/l
		Magnesium as Mg ²⁺	APHA 3500-Mg B Calculation Method	1 mg/l to 10000 mg/l
		Total Hardness as CaCo ₃	IS:3025(Part-21) (EDTA Method) APHA 2340-C (EDTA Titrimetric Method)	2 mg/l to 25000 mg/l

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		Potassium as K	APHA 3500-K B. (Flame Photometric Method)	1mg/l to 1000 mg/l
		Sodium as Na	APHA 3500-Na B. (Flame Emission Photometric Method)	1 mg/l to 1000 mg/l
		Sulphate as SO ₄	IS:3025(Part-24) (Turbidity Method)	1 mg/l to 1000 mg/l
		Total Solids	IS:3025(Part-15) (Gravimetric Method)	20 mg/l to 5000 mg/l
		Dissolved Oxygen	IS:3025(Part-38) (Winkler Method)	0 to 7 mg/l
2.	Soil	рН @ 25 ⁰ С	IS:2720(Part-26) (Electrometric Method)	1 to 14
		Electrical Conductivity	IS:14767 (Instrumental method)	1 μS/cm to 40000 μS/cm
		Sodium	EPL/TP/SQ/03, Issue No. 02 Dt. 01.04.2017	10 mg/kg to 5000 mg/kg
		Potassium	EPL/TP/SQ/04, Issue No. 02 Dt. 01.04.2017	10 mg/kg to 5000 mg/kg
		Total Soluble Solids	IS:2720(Part-21) (Gravimetric Method)	0 to 10 % w/w
		Organic Matter	IS:2720(Part-22) Section I	0.1 % w/w to 10 % w/w
		Water content	IS:2720(Part-2) Section I (Oven Drying Method)	0.1 % w/w to 10 % w/w
III.	ATMOSPHERIC PO	LUTION		
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS-5182(Part-23) (Gravimetric Method)	5 μg/m ³ to 5000 μg/m ³
		Particulate Matter (PM _{2.5})	EPL/TP/AQ/02 , Issue No. 01 Dt. 01.04.2017	5 μg/m ³ to 1000 μg/m ³
		Sulphur Dioxide	IS-5182(Part-2)	1 µg/m ³ to 100 µg/m ³
		Oxides of Nitrogen	IS-5182(Part-6)	1 μg/m ³ to 100 μg/m ³

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		Ammonia	EPL/TP/AQ/05, Issue No. 01 Dt. 01.04.2017	1 μg/m ³ to 1000 μg/m ³
2.	Stack Emission	Particulate Matter	IS:11255 (Part-1) (Gravimetric Method)	5 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur Dioxide	IS:11255 (Part-2)	3 mg/Nm ³ to 500 mg/Nm ³
3.	Ambient Noise Level	Equivalent Noise level L _{eq} , L _{min} , & L _{Max}	EPL/NL/TP/01, Issue No. 01 Dt. 01.04.2017	30 dB(A) to 130 dB(A)

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however <u>does not fully cover</u> the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.