

Laboratory Shreeji Aqua Treatment Pvt. Ltd., 1 & 4, Shreeji Terrace Apartment,  
Plot No. 53, Purna Nagar, Chikhali, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7042

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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
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#### BIOLOGICAL TESTING

I.	WATER			
1.	Surface Water, Ground Water, Drinking Water, Packaged Drinking Water, Construction Water, Swimming Pool water, Irrigation Water	Total Coliform	APHA, 9221-B, 22 <sup>nd</sup> Edi., (2012), IS 1621: 1981 RA 1996	1.8 MPN/100ml to 1600 MPN/100ml 2.0 MPN/100ml to 1600 MPN/100ml
		<i>E. Coli</i>	APHA- 9221- F Proposed 22 <sup>nd</sup> Edi., (2012)	1.8 MPN/100ml to 1600 MPN/100ml
			IS 1622:1981 RA 1996	2 MPN/100ml to 1600 MPN/100ml
		Faecal Coliform	APHA, 9221-B,E,22 <sup>nd</sup> Edi., (2012)	1.8 MPN/100ml to 1600 MPN/100ml
			IS 1622: 1981 RA 1996	2 MPN/100ml to 1600 MPN/100ml

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

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
1	Waste Water (Effluent/Sewage)	pH	APHA, 4500-H <sup>+</sup> B, 23 <sup>rd</sup> Edition., (2017), (Electrometric Method)	2.0 to 12
		Electrical Conductivity	APHA, 2510 B, 23 <sup>rd</sup> Edition., (2017), (Laboratory Method)	1 µs to 200ms
		Turbidity	APHA, 2130 B, 23 <sup>rd</sup> Edition., (2017), (Nephelometric Method)	1 NTU to 100 NTU 101 NTU to 2000NTU
		Total Suspended Solid	APHA, 2540 D, 23 <sup>rd</sup> Edition., (2017), (Gravimetric Analysis)	2 mg/L to 5000 mg/L
		Total Dissolved Solid	APHA, 2540 C, 23 <sup>rd</sup> Edition., (2017), (Gravimetric Analysis)	2 mg/L to 100 mg/L 101 mg/L to 1000 mg/L 1001 mg/L to 100000 mg/L
		Chemical Oxygen Demand	APHA, 5220 C, 23 <sup>rd</sup> Edition., (2017), (Closed Reflux Titrimetric Method)	3.00 mg/L to 600 mg/L 601 mg/L to 475000 mg/L
		Biological Oxygen Demand (27°C for 3 days)	IS, 3025, (Part-44), 1993, (Titrimetric Method) RA 2003	2 mg/L to 25000 mg/L
		Sulphate	APHA, 4500-SO <sub>4</sub> <sup>2-</sup> E, 23 <sup>rd</sup> Edition., (2017), (Turbidimetric Method)	1 mg/L to 10.00 mg/L 11 mg/L to 500 mg/L
		Chloride	APHA, 4500-Cl-B, 23 <sup>rd</sup> Edition., (2017), (Argentometric Method)	4 mg/L to 100 mg/L 101 mg/L to 500 mg/L

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		Oil & grease	APHA, 5520 B, 23 <sup>rd</sup> Edition., (2017), (Liquid-Liquid, partition gravimetric Method)	2 mg/L to 2000 mg/L 501 mg/L to 10000 mg/L
		Total Hardness	APHA, 2340-C, 23 <sup>rd</sup> Edition., (2017), (EDTA Titrimetric Method)	2 mg/L to 100 mg/L 101 mg/L to 1000 mg/L
		Calcium	APHA, 3500-Ca-B, 23 <sup>rd</sup> Edition., (2017), (EDTA Titrimetric Method)	2 mg/L to 100 mg/L 101 mg/L to 1000 mg/L
		Magnesium	APHA, 3500-Mg-B, 23 <sup>rd</sup> Edition., (2017), (Calculation Method)	2 mg/L to 100 mg/L 101 mg/L to 1000 mg/L
		Nitrate	APHA, 4500 NO <sub>3</sub> -B, 23 <sup>rd</sup> Edition., (2017), UV Spectrophotometric Screening Method	0.01 mg/L to 11.0 mg/L
		Nitrite	APHA, 4500 NO <sub>2</sub> -B, 23 <sup>rd</sup> Edition., (2017), Calorimetric Method	0.01 mg/L to 50 mg/L 51 mg/L to 100 mg/L
		Phosphate	APHA, 4500 P-D, 23 <sup>rd</sup> Edition., (2017), Stannous Chloride Method	0.5 mg/L to 50 mg/L 51 mg/L to 100 mg/L
		Ammonical Nitrogen	APHA, 4500 NH <sub>3</sub> -C, 23 <sup>rd</sup> Edition., (2017), Titrimetric Method	1 mg/L to 50 mg/L 51 mg/L to 100 mg/L
		Acidity	IS 3025, (Part-22), 1986, Titrimetric Method RA 2003	10 mg/L to 500 mg/L 501 mg/L to 10000 mg/L
		Alkalinity	IS 3025, (Part-23), 1986, Titrimetric Method RA 2003	10 mg/L to 500 mg/L 501 mg/L to 10000 mg/L
		Silica	APHA, 4500-SiO <sub>2</sub> -C, 23 <sup>rd</sup> Edition., (2017), Molybdosilicate Method	1 mg/L to 25 mg/L

Sandeep Singh Tomar  
Convenor

N. Venkateswaran  
Program Director

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		Phenol	APHA,5530-D, 23 <sup>rd</sup> Edition., (2017), Direct Photometric Method	10 mg/L to 50 mg/L 51 mg/L to 250 mg/L
		Hexavalent Chromium	APHA, 3500-Cr-B, 23 <sup>rd</sup> Edition., (2017), Colorimetric Method	0.4 mg/L to 100 mg/L
		Calcium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500mg/L
		Magnesium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Sodium	APHA,3500-Na-B, 23 <sup>rd</sup> Edition., (2017), Flame Emission photometric Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
			APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Potassium	APHA,3500-K-B, 23 <sup>rd</sup> Edition., (2017), Flame Emission photometric Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
			APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Iron	APHA,3500-Fe-B, 23 <sup>rd</sup> Edition., (2017), Phenanthroline Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
		Iron	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Copper	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L

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		Nickel	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Zinc	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Lead	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Manganese	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Aluminium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Cobalt	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Chromium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Boron	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Cadmium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
<b>II.</b>	<b>WATER</b>			
1.	<b>Surface Water, Ground Water, Drinking Water, Packaged Drinking Water, Construction</b>	pH	22 <sup>nd</sup> Edi. APHA 4500-H <sup>+</sup> B published in 2012 (Electrometric Method)	2 to 12
		E. Conductivity	22 <sup>nd</sup> Edi. APHA 2510 B published in 2012 (Laboratory Method)	1 µs to 200 ms

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	Water, Swimming Pool water, Irrigation Water	TDS	22 <sup>nd</sup> Edi. APHA 2540 C published in 2012 (Gravimetric Analysis)	2 mg/L to 100 mg/L 101 mg/L to 1000 mg/L
		Sulphate	22 <sup>nd</sup> Edi. APHA 4500-SO <sub>4</sub> <sup>2-</sup> E published in 2012 (Turbidimetric Method)	0.1 mg/L to 40 mg/L 41 mg/L to 500 mg/L
		Chloride	22 <sup>nd</sup> Edi. APHA 4500-Cl <sup>-</sup> B published in 2012 (Argentometric Method)	1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
		Total Hardness	22 <sup>nd</sup> Edi. APHA 2340 C published in 2012 (EDTA Titrimetric Method)	2 mg/L to 50 mg/L 51 mg/L to 500 mg/L 501 mg/L to 1000 mg/L
		Calcium	APHA, 3500-Ca-B, 23 <sup>rd</sup> Edition., (2017), (EDTA Titrimetric Method)	1 mg/L to 50 mg/L 51 mg/L to 500 mg/L 501 mg/L to 1000 mg/L
		Magnesium	APHA, 3500-Mg-B, 23 <sup>rd</sup> Edition., (2017), (Calculation Method)	2 mg/L to 50 mg/L 51 mg/L to 500 mg/L 501 mg/L to 1000 mg/L
		Nitrate	APHA, 4500 NO <sub>3</sub> -B, 23 <sup>rd</sup> Edition., (2017), UV Spectrophotometric Screening Method	0.01 mg/L to 11.00 mg/L
		Residual Chlorine	APHA, 4500-Cl-B, 23 <sup>rd</sup> Edition., (2017), Idometric Method I	1.0 mg/L to 50 mg/L 51 mg/L to 100 mg/L
		Turbidity	APHA, 2130 B, 23 <sup>rd</sup> Edition., (2017), (Nephelometric Method)	0.1 NTU to 100 NTU 101 NTU to 2000 NTU
		Phenol	APHA, 5530-D, 23 <sup>rd</sup> Edition., (2017), Direct Photometric Method	10 µg/L to 50 mg/L 51 mg/L to 250 mg/L

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		Silica	APHA,4500-SiO <sub>2</sub> -C, 23 <sup>rd</sup> Edition., (2017), Molybdosilicate Method	0.4 mg/L to 25 mg/L
		Acidity	IS 3025, (Part-2),1986, Titrimetric Method RA 2003	10 mg/L to 500 mg/L 501 mg/L to 10000 mg/L
		Alkalinity	IS 3025, (Part-3),1986, Titrimetric Method RA 2003	10 mg/L to 500 mg/L 501 mg/L to 10000 mg/L
		Hexachromium	APHA, 3500-Cr-B, 23 <sup>rd</sup> Edition., (2017), Colorimetric Method	0.4 mg/L to 100 mg/L
		Sodium	APHA,3500-Na-B, 23 <sup>rd</sup> Edition., (2017), Flame Emission photometric Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
			APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Potassium	APHA,3500-K-B, 23 <sup>rd</sup> Edition., (2017), Flame Emission photometric Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
			APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Iron	APHA,3500-Fe-B, 23 <sup>rd</sup> Edition., (2017), Phenanthroline Method	0.1 mg/L to 100 mg/L 101 mg/L to 500 mg/L
			APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Copper	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L

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		Zinc	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Nickel	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Lead	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Manganese	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Aluminum	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Cobalt	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017),	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Chromium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Boron	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
		Cadmium	APHA,3120-B, 3030-F, 23 <sup>rd</sup> Edition., (2017), ICP Method	10 µg/L to 100 mg/L 101 mg/L to 500 mg/L
<b>III.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1</b>	<b>Ambient Air</b>	Sulphur Dioxide	IS 5182,(part-2),(2001), Calorimetric Method (RA 2017)	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Oxide of Nitrogen	IS 5182,(part-6),(2006), Calorimetric Method (RA 2017)	5 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Particulate Matter PM 10	IS, 5182,(part-23),(2006), Gravimetric Method (RA 2017)	50 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup> 501 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>



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		Particulate Matter PM 2.5	SOP/SATPL/LAB-AAI/04, Rev.-1,(2016)	50 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Ozone	IS, 5182,(part-9),(1974), Spectrophotometric Method (RA 2014)	10 µg/m <sup>3</sup> to 50 µg/m <sup>3</sup>
		Ammonia	APHA AIR 401, 3 <sup>rd</sup> Edn,(1988) Indophnol Method	20 µg/m <sup>3</sup> to 700 µg/m <sup>3</sup>
2.	Stack Emmision	Sulphur Dioxide	IS, 11255,(part-2), (1985), IPA Thorin Titration Method RA 2014	5 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
		Oxide Of Nitrogen	IS, 11255,(part-7), (2005), Calometric Method RA 2017	5 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
		Particulate Matter	IS, 11255,(part-1), (1985), Gravimetric Method RA 2014 µg/m <sup>3</sup>	40 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup> 501 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Ammonia	IS, 11255,(part-6), (1985), Titration Method RA 2017	0.034 mg/Nm <sup>3</sup> to 5 mg/Nm <sup>3</sup>
3.	Ambient Noise	Noise	IS 9989:1981, RA 2008	35 to 130 dB

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