

Laboratory **Regional Laboratory, M P Pollution Control Board, Scheme No. 78, C Part-II, Plot No. 1, Vijay Nagar, Indore, Madhya Pradesh**

Accreditation Standard **ISO/IEC 17025: 2017**

Certificate Number **TC-6137**

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Validity **26.06.2019 to 25.06.2021**

Last Amended on **05.07.2019**

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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**CHEMICAL TESTING**

I.	<b>POLLUTION &amp; ENVIRONMENT</b>			
1.	<b>Waste Water (Effluents/ Sewage)</b>	pH	APHA, 23 <sup>rd</sup> Edition 2017 Electrometric Method 4500-H <sup>+</sup> B	1 to 12
		Total Solids	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540B	10 mg/L to 10000 mg/L
		Total Dissolved Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540C	10 mg/L to 10000 mg/L
		Total Suspended Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540D	5 mg/L to 1000 mg/L
		Chloride as Cl	APHA, 23 <sup>rd</sup> Edition 2017 Argentometric Method 4500-Cl <sup>-</sup> B	5 mg/L to 5000 mg/L
		Sulphate as SO <sub>4</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Turbidimetric Method 4500E	1 mg/L to 1000 mg/L
		Chlorine (Residual)	APHA, 23 <sup>rd</sup> Edition 2017 Iodometric Method, 4500 Cl B	1 mg/L to 5 mg/L
		Potassium as K	APHA, 23 <sup>rd</sup> Edition 2017 Flame –photometer Method 3500 K B	1 mg/L to 100 mg/L
		Biochemical Oxygen Demand (BOD) 3 days 27 °C	IS 3025 (Part 44): 1993 (RA 2003)	2 mg/L to 5000 mg/L
		Chemical Oxygen Demand (COD)	APHA, 23 <sup>rd</sup> Edition 2017, Open Reflux Method, 5220 B	5 mg/L to 10000 mg/L

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		Oil & Grease	APHA, 23 <sup>rd</sup> Edition 2017, Gravimetric Method 5520B	10 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen as N	APHA, 23 <sup>rd</sup> Edition 2017, 4500-Norg-B	1 mg/L to 100 mg/L
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking Water</b>	pH	APHA, 23 <sup>rd</sup> Edition 2017 Electrometric Method 4500-H <sup>+</sup> B	6.5 to 8.5
		Total Solids	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540B	01 mg/L to 2000 mg/L
		Total Dissolved Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540 C	01 mg/L to 2000 mg/L
		Total Suspended Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540D	1 mg/L to 100 mg/L
		Specific Conductance	APHA, 23 <sup>rd</sup> Edition 2017 by Conductivity meter, 2510 B	1 µmho/cm to 3000 µmho/cm
		Turbidity	APHA, 23 <sup>rd</sup> Edition 2017 Nephelometric Method, 2130 B	0.1 NTU to 10 NTU
		Alkalinity as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Titrimetric Method 2320 B	1 mg/L to 1000 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 2340 C	1 mg/L to 1000 mg/L
		Calcium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 3500 CaB	1 mg/L to 500 mg/L
		Magnesium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Calculation Method 3500-Mg B	2 mg/L to 500 mg/L
		Chloride as Cl	APHA, 23 <sup>rd</sup> Edition 2017 Argentometric Method	1 mg/L to 1000 mg/L

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			4500-Cl <sup>-</sup> B	
		Sulphate as SO <sub>4</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Turbidimetric Method 4500-SO <sub>4</sub> <sup>2-</sup> E	1 mg/l to 400 mg/L
		Chlorine (Residual)	APHA, 23 <sup>rd</sup> Edition 2017 Iodometric Method, 4500 Cl B	0.2 mg/L to 4 mg/L
		Phosphate as PO <sub>4</sub> -P	APHA, 23 <sup>rd</sup> Edition 2017, Stannous chloride method ,4500PD	0.01 mg/L to 1 mg/L
		Nitrogen Nitrate as NO <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 UV Spectrophotometric Method. 4500-NO <sub>3</sub> B,	0.01 mg/L to 50 mg/L
		Nitrogen Nitrite as NO <sub>2</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Colorimetric Method 4500-NO <sub>2</sub> B	0.01 mg/l to 1 mg/L
		Boron as B	APHA, 23 <sup>rd</sup> Edition 2017 Carmine Method 34500-B C	0.01 mg/L to 1 mg/L
		Fluoride as F	APHA, 23 <sup>rd</sup> Edition 2017 SPANDS Method 4500-F D	0.1 mg/L to 2.0 mg/L
		Dissolved Oxygen	APHA, 23 <sup>rd</sup> Edition 2017 Azide Modification, 4500-O C	0.1 mg/l to 10.0 mg/L
		Sodium as Na	APHA, 23 <sup>rd</sup> Edition 2017 Flame-photometer Method 3500 Na B	1 mg/L to 200 mg/L
		Potassium as K	APHA, 23 <sup>rd</sup> Edition 2017 Flame –photometer Method 3500 K B	1 mg/L to 50 mg/L
		Biochemical Oxygen Demand (BOD) 3 days 27 °C	IS 3025 (Part 44): 1993 (RA 2003)	1 mg/L to 50 mg/L

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		Chemical Oxygen Demand (COD)	APHA, 23 <sup>rd</sup> Edition 2017, Open Reflux Method, 5220 B	1 mg/L to 100 mg/L
		Oil & Grease	APHA, 23 <sup>rd</sup> Edition 2017, Liquid-Liquid Partition Gravimetric Method 5520B	1 mg/L to 10 mg/L
		Total Kjeldahl Nitrogen as N	APHA, 23 <sup>rd</sup> Edition 2017, 4500-Norg-B.	01 mg/L to 100 mg/L
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Phenate Method 4500 NH3-F	0.01 mg/L to 1.0 mg/L
		Fixed dissolved solids	APHA, 23 <sup>rd</sup> Edition 2017, 2540-E	1 mg/L to 2000 mg/L
2.	Ground Water	pH	APHA, 23 <sup>rd</sup> Edition 2017 Electrometric Method 4500-H <sup>+</sup> B	6.5 to 8.5
		Total Solids	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540B	01 mg/L to 2000 mg/L
		Total Dissolved Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540 C	01 mg/L to 2000 mg/L
		Total Suspended Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540D	1 mg/L to 100 mg/L
		Specific Conductance	APHA, 23 <sup>rd</sup> Edition 2017 by conductivity meter , 2510 B	1 µmho/cm to 3000 µmho/cm
		Turbidity	APHA, 23 <sup>rd</sup> Edition 2017 Nephelometric Method, 2130 B	0.1 NTU to 10 NTU
		Alkalinity as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Titrimetric Method 2320 B	1 mg/L to 1000 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 2340 C	1 mg/L to 1000 mg/L

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		Calcium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 3500 CaB	1 mg/L to 500 mg/L
		Magnesium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Calculation Method 3500-Mg B	2 mg/L to 500 mg/L
		Chloride as Cl	APHA, 23 <sup>rd</sup> Edition 2017 Argentometric Method 4500-Cl <sup>-</sup> B	1 mg/L to 1000 mg/L
		Sulphate as SO <sub>4</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Turbidimetric Method 4500-SO <sub>4</sub> <sup>2-</sup> E	1 mg/L to 400 mg/L
		Chlorine (Residual)	APHA, 23 <sup>rd</sup> Edition 2017, Iodometric Method, 4500 Cl B	0.2 mg/L to 4 mg/L
		Phosphate as PO <sub>4</sub> -P	APHA, 23 <sup>rd</sup> Edition 2017, Stannous chloride method ,4500PD	0.01 mg/L to 1 mg/L
		Nitrogen Nitrate as NO <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 UV Spectrophotometric Method. 4500-NO <sub>3</sub> B,	0.01 mg/L to 50 mg/L
		Nitrogen Nitrite as NO <sub>2</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Colorimetric Method 4500-NO <sub>2</sub> <sup>-</sup> B	0.01 mg/L to 1 mg/L
		Boron as B	APHA, 23 <sup>rd</sup> Edition 2017 Carmine Method 34500-B C	0.01 mg/L to 1 mg/L
		Fluoride as F	APHA, 23 <sup>rd</sup> Edition 2017 SPANDS Method 4500-F <sup>-</sup> D	0.1 mg/L to 2.0 mg/L
		Dissolved Oxygen	APHA, 23 <sup>rd</sup> Edition 2017 Azide Modification, 4500-O C	0.1 mg/L to 10.0 mg/L
		Sodium as Na	APHA, 23 <sup>rd</sup> Edition 2017 Flame-photometer Method	1 mg/L to 200 mg/L

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		Potassium as K	3500 Na B APHA, 23 <sup>rd</sup> Edition 2017 Flame-photometer Method 3500 K B	1 mg/L to 50 mg/L
		Biochemical Oxygen Demand (BOD) 3 days 27 °C	IS 3025 (Part 44): 1993 (RA 2003)	1 mg/L to 50 mg/L
		Chemical Oxygen Demand (COD)	APHA, 23 <sup>rd</sup> Edition 2017, Open Reflux Method, 5220 B	1 mg/L to 100 mg/L
		Oil & Grease	APHA, 23 <sup>rd</sup> Edition 2017, Liquid-Liquid Partition Gravimetric Method 5520B	1 mg/L to 10 mg/L
		Total Kjeldahl Nitrogen as N	APHA, 23 <sup>rd</sup> Edition 2017, 4500-Norg-B.	01 mg/L to 100 mg/L
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Phenate Method 4500- NH3-F	0.01 mg/L to 1.0 mg/L
		Fixed dissolved solids	APHA, 23 <sup>rd</sup> Edition 2017, 2540-E	1 mg/L to 2000 mg/L
3.	Surface Water	pH	APHA, 23 <sup>rd</sup> Edition 2017 Electrometric Method 4500-H <sup>+</sup> B	6.5 to 8.5
		Total Solids	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540 B	01 mg/L to 2000 mg/L
		Total Dissolved Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540 C	01 mg/L to 2000 mg/L
		Total Suspended Solid	APHA, 23 <sup>rd</sup> Edition 2017 Gravimetric Method 2540 D	1 mg/L to 100 mg/L
		Specific Conductance	APHA, 23 <sup>rd</sup> Edition 2017 by conductivity meter , 2510 B	1 µmho/cm to 3000 µmho/cm

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		Turbidity	APHA, 23 <sup>rd</sup> Edition 2017 Nephelometric Method, 2130 B	0.1 NTU to 10 NTU
		Alkalinity as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Titrimetric Method 2320 B	1 mg/L to 1000 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 2340 C	1 mg/L to 1000 mg/L
		Calcium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 EDTA Titrimetric Method 3500 CaB	1 mg/L to 500 mg/L
		Magnesium Hardness as CaCO <sub>3</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Calculation Method 3500-Mg B	2 mg/L to 500 mg/L
		Chloride as Cl	APHA, 23 <sup>rd</sup> Edition 2017 Argentometric Method 4500-Cl <sup>-</sup> B	1 mg/L to 1000 mg/L
		Sulphate as SO <sub>4</sub>	APHA, 23 <sup>rd</sup> Edition 2017 Turbidimetric Method 4500-SO <sub>4</sub> <sup>2-</sup> E	1 mg/L to 400 mg/L
		Chlorine (Residual)	APHA, 23 <sup>rd</sup> Edition 2017 Iodometric Method, 4500 Cl B	0.2 mg/L to 4 mg/L
		Phosphate as PO <sub>4</sub> -P	APHA, 23 <sup>rd</sup> Edition 2017, Stannous chloride method, 4500PD	0.01 mg/L to 1 mg/L
		Nitrogen Nitrate as NO <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 UV Spectrophotometric Method. 4500-NO <sub>3</sub> B	0.01 mg/L to 50 mg/L
		Nitrogen Nitrite as NO <sub>2</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Colorimetric Method 4500-NO <sub>2</sub> <sup>-</sup> B	0.01 mg/L to 1 mg/L
		Boron as B	APHA, 23 <sup>rd</sup> Edition 2017 Carmine Method 34500-B C	0.01 mg/L to 1 mg/L

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		Fluoride as F	APHA, 23 <sup>rd</sup> Edition 2017 SPANDS Method 4500-F <sup>-</sup> D	0.1 mg/L to 2.0 mg/L
		Dissolved Oxygen	APHA, 23 <sup>rd</sup> Edition 2017 Azide Modification, 4500-O C	0.1 mg/L to 10.0 mg/L
		Sodium as Na	APHA, 23 <sup>rd</sup> Edition 2017 Flame-photometer Method 3500 Na B	1 mg/L to 200 mg/L
		Potassium as K	APHA, 23 <sup>rd</sup> Edition 2017 Flame-photometer Method 3500 K B	1 mg/L to 50 mg/L
		Biochemical Oxygen Demand (BOD) 3 days 27°C	IS 3025 (Part 44): 1993 (RA 2003)	1 mg/L to 50 mg/L
		Chemical Oxygen Demand (COD)	APHA, 23 <sup>rd</sup> Edition 2017, Open Reflux Method, 5220 B	1 mg/L to 100 mg/L
		Oil & Grease	APHA, 23 <sup>rd</sup> Edition 2017, Liquid-Liquid Partition Gravimetric Method 5520B	1 mg/L to 10 mg/L
		Total Kjeldahl Nitrogen as N	APHA, 23 <sup>rd</sup> Edition 2017, 4500-Norg-B.	01 mg/L to 100 mg/L
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA, 23 <sup>rd</sup> Edition 2017 Phenate Method 4500- NH3-F	0.01 mg/L to 1.0 mg/L
		Fixed dissolved solids	APHA, 23 <sup>rd</sup> Edition 2017, 2540-E	1 mg/L to 2000 mg/L