Laboratory	**Regional Laboratory, Regional Office, M. P. Pollution Control Board, Scheme No. 5, Plot No. 455/456, Vijay Nagar, Jabalpur, Madhya Pradesh**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Chemical Testing**	**Issue Date**	**18.09.2016**
Certificate Number	**T-1820**	**Valid Until**	**17.09.2018**
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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.	**WATER**			
1.	**Surface & Ground Water**	pH	APHA (22nd Edition) 4500 H^+B: 2012 (Electrometric Method)	2.0 to 12.0
		Total Dissolved Solid	APHA (22nd Edition) 2540 C: 2012 (Gravimetric Method)	5.0 mg/L to 5000 mg/L
		Total Suspended Solid	APHA (22nd Edition) 2540 D: 2012 (Gravimetric Method)	5.0 mg/L to 5000 mg/L
		Specific Conductance	APHA (22nd Edition) 2510 B: 2012 By conductivity meter	0.2µmho to 20000 µmho
		Turbidity	APHA (22nd Edition) 2130 B: 2012 (Nephelometric Method)	1 NTU to 100 NTU
		Acidity as $CaCO_3$	APHA (22nd Edition) 2310 B: 2012 (Titrimetric Method)	2 mg/L to 1000 mg/L
		Alkalinity $CaCO_3$	APHA (22nd Edition) 2320 B: 2012 (Titrimetric Method)	2 mg/L to 500 mg/L
		Total Hardness as $CaCO_3$	APHA (22nd Edition) 2340 C: 2012 (EDTA Titrimetric Method)	2 mg/L to 1000 mg/L
		Calcium Hardness as $CaCO_3$	APHA (22nd Edition) 3500 Ca B: 2012 (EDTA Titrimetric Method)	2 mg/L to 500 mg/L
		Magnesium Hardness	APHA (22nd Edition) 2340 B: 2012 By Calculation	2 mg/L to 400 mg/L
		Chloride as Cl	APHA (22nd Edition) 4500 Cl^-B: 2012 (Argentometric Method)	0.5 mg/L to 1000 mg/L

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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
	Surface & Ground Water	Temperature	APHA (22nd Edition) 2550 B: 2012 By Thermometer	10 °C to 60 °C
		Sulphate as SO_4	APHA (22nd Edition) 4500 SO_4^{2-} E: 2012 (Turbidimetric Method)	1.0 mg/L to 100 mg/L
		Residual Chlorine as Cl_2	APHA (22nd Edition) 4500 Cl B: 2012 (Iodometric Method)	0.2 mg/L to 5.0 mg/L
		Phosphate as PO_4	APHA (22nd Edition) 4500 P D: 2012 (Stannous Chloride Method)	0.5 mg/L to 20 mg/L
		Ammonical Nitrogen as NH_3	APHA (22nd Edition) 4500 NH_3 C: 2012 (Titrimetric Method)	0.5 mg/L to 100 mg/L
		Nitrogen Nitrate as NO_3	APHA (22nd Edition) 4500 NO_3^- B: 2012 (Spectrophotometric Screening Method)	0.1 mg/L to 100 mg/L
		Nitrogen Nitrite as NO_2	APHA (22nd Edition) 4500 NO_2^- B: 2012 (Colorimetric Method)	0.05 mg/L to 10.0 mg/L
		Boron as B	APHA (22nd Edition) 4500 B C: 2012 (Carmine Method)	1 mg/L to 10 mg/L
		Fluoride as F	APHA (22nd Edition) 4500 F D: 2012 (SPADNS Method)	0.1 mg/L to 10 mg/L
		Dissolved Oxygen	APHA (22nd Edition) 4500 O B: 2012 (Azide Modification Method)	1.0 mg/L to 12.0 mg/L
		Sodium as Na	APHA (22nd Edition) 3500 Na B: 2012 (Flame Photometer Method)	1.0 mg/L to 500 mg/L

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Surface & Ground Water	Potassium as K	APHA (22nd Edition) 3500 K B: 2012 (Flame Emission Photometer Method)	1.0 mg/L to 100 mg/L
		BOD	IS 3025 (Part 44): 1993 (RA 2009) APHA (22nd Edition) 5210 B: 2012	2 mg/L to 500 mg/L
		COD	APHA (22nd Edition) 5220 B: 2012 (Open Reflux Method)	5 mg/L to 500 mg/L
		Oil & Grease	APHA (22nd Edition) 5520 B: 2012 (Liquid- Liquid, Partition Gravimetric Method)	1.0 mg/L to 50 mg/L
II.	**POLLUTION & ENVIRONMENT**			
1.	**Waste Water**	pH	APHA (22nd Edition) 4500 H^+ B: 2012 (Electrometric Method)	2.0 to 12
		Total Dissolved Solid	APHA (22nd Edition) 2540 C: 2012 (Gravimetric Method)	5.0 mg/L to 10000 mg/L
		Total Suspended Solid	APHA (22nd Edition) 2540 D: 2012 (Gravimetric Method)	5.0 mg/L to 10000 mg/L
		Specific Conductance	APHA (22nd Edition) 2510 B: 2012 By conductivity meter	0.2µmho to 20000 µmho
		Sulphate as SO_4	APHA (22nd Edition) 4500 SO_4^{2-}E: 2012 (Turbidimetric Method)	1 mg/L to 500 mg/L
		Residual Chlorine as Cl_2	APHA (22nd Edition) 4500 Cl B: 2012 (Iodometric Method)	0.2 mg/L to 5.0 mg/L
		Phosphate as PO_4	APHA (22nd Edition) 4500 P D: 2012 (Stannous Chloride Method)	0.1 mg/L to 20 mg/L

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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
	Waste Water	Ammonical Nitrogen as NH_3	APHA (22^{nd} Edition) 4500 NH_3 C: 2012 (Titrimetric Method)	0.1 mg/L to 100 mg/L
		Nitrogen Nitrate as NO_3	APHA (22^{nd} Edition) 4500 NO_3^- B: 2012 (Spectrophotometric Screening Method)	1 mg/L to 200 mg/L
		Nitrogen Nitrite as NO_2	APHA (22^{nd} Edition) 4500 NO_2^- B: 2012 (Colorimetric Method)	0.1 mg/L to 20 mg/L
		Boron as B	APHA (22^{nd} Edition) 4500 B C: 2012 (Carmine Method)	1 mg/L to 10 mg/L
		Fluoride as F	APHA (22^{nd} Edition) 4500 F^- D: 2012 (SPADNS Method)	0.1 mg/L to 10 mg/L
		Dissolved Oxygen	APHA (22^{nd} Edition) 4500 O B: 2012 (Azide Modification Method)	1.0 mg/L to 10.0 mg/L
		BOD	IS 3025 (Part 44): 1993 (RA 2009) APHA (22^{nd} Edition) 5210 B: 2012	2 mg/L to 10000 mg/L
		COD	APHA (22^{nd} Edition) 5220 B: 2012 (Open Reflux Method)	5 mg/L to 20000 mg/L
		Oil & Grease	APHA (22^{nd} Edition) 5520 B: 2012 (Liquid Liquid, Partition Gravimetric Method)	1.0 mg/L to 100 mg/L

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