

Laboratory District Laboratory, Public Health Engineering Department, PHED  
Campus, Bapu Nagar, Bhilwara, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7734

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Validity 16.08.2018 to 15.08.2020

Last Amended on -

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.	WATER			
1.	Drinking Water	pH	APHA (23 <sup>rd</sup> Edition): 2017 4500 H <sup>+</sup> B (Electrometric Method)	2 to 12
		Conductivity	APHA (23 <sup>rd</sup> Edition): 2017 2510 B	1 µS/cm to 20000 µS/cm
		Total Hardness as CaCO <sub>3</sub>	APHA (23 <sup>rd</sup> Edition): 2017 2340 C (EDTA Titrimetric Method)	20 mg/L to 4000 mg/L
		Calcium as Ca <sup>+2</sup>	APHA (23 <sup>rd</sup> Edition): 2017 3500 Ca - B (EDTA Titrimetric Method)	10 mg/L to 1000 mg/L
		Magnesium as Mg <sup>+2</sup>	APHA (23 <sup>rd</sup> Edition): 2017 3500 Mg - B (Calculation Method)	10 mg/L to 1000 mg/L
		Total alkalinity as CaCO <sub>3</sub>	APHA (23 <sup>rd</sup> Edition): 2017 2320 B (Titration Method)	25 mg/L to 2000 mg/L
		Chloride as Cl <sup>-</sup>	APHA (23 <sup>rd</sup> Edition): 2017 4500 Cl <sup>-</sup> B (Argentometric Method)	20 mg/L to 5000 mg/L
		Biochemical Oxygen Demand	APHA (23 <sup>rd</sup> Edition): 2017 5210 B (@ 20°C; 5-day BOD Test Method)	2 mg/L to 200 mg/L
		Dissolved Oxygen	APHA (23 <sup>rd</sup> Edition): 2017 4500 O-C (Azide Modification Method)	0.2 mg/L to 10 mg/L
		Nitrate as NO <sub>3</sub> <sup>-</sup>	APHA (23 <sup>rd</sup> Edition): 2017 4500 NO <sub>3</sub> <sup>-</sup> D (Nitrate Electrode Method)	5 mg/L to 450 mg/L

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		Fluoride as F <sup>-</sup>	APHA (23 <sup>rd</sup> Edition): 2017 4500 F- C (ISE method)	0.1 mg/L to 20.0 mg/L
		Sodium as Na <sup>+</sup>	APHA (23 <sup>rd</sup> Edition): 2017 3500 Na-B (Flame Emission Photometric Method)	10 mg/L to 1000 mg/L
		Potassium as K <sup>+</sup>	APHA (23 <sup>rd</sup> Edition): 2017 3500 K-D (Flame Emission Photometric Method)	5 mg/L to 500 mg/L
		Sulphate as SO <sub>4</sub> <sup>2-</sup>	APHA (23 <sup>rd</sup> Edition): 2017 4500 SO <sub>4</sub> <sup>2-</sup> E (Turbidimetric Method)	20 mg/L to 1000 mg/L
		Residual Chlorine as Cl <sub>2</sub>	APHA (23 <sup>rd</sup> Edition): 2017 4500 Cl-B (Iodometric Method I)	1 mg/L to 50 mg/L
		Turbidity (NTU)	APHA (23 <sup>rd</sup> Edition): 2017 2130 B (Turbidimetric Method)	1 NTU to 500 NTU
		Total Dissolved Solids (TDS)	APHA (23 <sup>rd</sup> Edition): 2017 2510 (Total Dissolved Solids Dried at 180 <sup>o</sup> C)	5 mg/L to 30000 mg/L