

LIST OF OUR NABL SCOPE TEST PARAMETERS FOR WATER AND WASTEWATER

S.No.	Test Parameters	Unit	Test Method
1	pH	---	IS 3025 (Part 11) - 1983, Electrometric
2	Electrical Conductivity (EC)	μS/cm	IS 3025 (Part 14) - 2013
3	Temperature	°C	IS 3025 (Part 9) - 1984
4	Turbidity	NTU	IS 3025 (Part 10) - 1984
5	Total Solids (TS)	mg/L	IS 3025 (Part 15) - 1984
6	Total Suspended Solids (TSS)	mg/L	APHA (23 rd Edition) 2017 - 2540 D
7	Mixed Liquor Suspended Solids (MLSS)	mg/L	APHA (23 rd Edition) 2017 - 2540 D
8	Total Suspended Volatile Solids (MLVSS)	mg/L	APHA (23 rd Edition) 2017 - 2540 E
9	Total Dissolved Solids (TDS)	mg/L	IS 3025 (Part 16) - 1984
10	Inorganic Solids	mg/L	APHA (23 rd Edition) 2017 - 2540 E
11	Settleable Solids	mg/L	APHA (23 rd Edition) 2017 - 2540 F
12	Non-Volatile Residue	mg/L	IS 1069:1993, Annex A-2
13	Suspended Matter	mg/L	APHA (23 rd Edition) 2017 - 2540 D
14	Oil and Grease	mg/L	IS 3025 (Part 39) - 1991, Partition Gravimetric
15	Chemical Oxygen Demand (COD)	mg/L	IS 3025 (Part 58) - 2006
16	Biochemical Oxygen Demand (BOD) at 27°C for 3 Days	mg/L	IS 3025 (Part 44) - 1993
17	Dissolved Oxygen (as O ₂)	mg/L	IS 3025 (Part 38) - 1989, Azide Modification
18	Oxygen absorbed in 4 hours	mg/L	IS 3025 (Part 63) - 2007
19	Oxidizable Matter	Qualitative	IS 1069:1993, Annex A-3
20	Colour Retention of KMnO ₄ at 27°C	1 - 60 mins	IS 1070:1992
21	To neutralize 100 ml sample of water using phenolphthalein indicator with 0.02N NaOH	mL	IS 3025 (Part 22) - 1986
22	To neutralize 100 ml sample of water using mixed indicator with 0.02N H ₂ SO ₄	mL	IS 3025 (Part 23) - 1986
23	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 23) - 1986
24	Carbonate Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 51) - 2001
25	Bicarbonate Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 51) - 2001
26	Phenolphthalein Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 23) - 1986

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27	Methyl Orange Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 23) - 1986, Indicator method
28	Hydroxide Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 51) - 2001
29	Caustic Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part 23) - 1986
30	Chloride (as Cl)	mg/L	IS 3025 (Part 32) - 1988, Argentometric
31	Free Residual Chlorine (as Cl ₂)	mg/L	IS 3025 (Part 26) - 1986, Iodometric
32	Total Hardness (as CaCO ₃)	mg/L	IS 3025 (Part 21) - 2009
33	Calcium Hardness (as CaCO ₃)	mg/L	APHA (23 rd Edition) 2017 - 3500 Ca B
34	Magnesium Hardness (as CaCO ₃)	mg/L	APHA (23 rd Edition) 2017 - 3500 Mg B
35	Calcium (as Ca)	mg/L	APHA (23 rd Edition) 2017 - 3500 Ca B
36	Magnesium (as Mg)	mg/L	APHA (23 rd Edition) 2017 - 3500 Mg B
37	Sulphate (as SO ₄)	mg/L	IS 3025 (Part 24) - 1986, Turbidity
38	Sulphide (as S)	mg/L	APHA (23 rd Edition) 2017 - 4500 S ²⁻ F
39	Free Ammonia (as NH ₃)	mg/L	IS 3025 (Part 34) - 1988, Macro-Kjeldahl followed by Nesslerization
40	Nitrate Nitrogen (as NO ₃)	mg/L	IS 3025 (Part 34) - 1988, Chromotropic acid
41	Nitrite Nitrogen (as NO ₂)	mg/L	IS 3025 (Part 34) - 1988, NED Dihydrochloride
42	Ammoniacal Nitrogen (as NH ₃ -N)	mg/L	IS 3025 (Part 34) - 1988, Macro-Kjeldahl followed by Nesslerization
43	Organic Nitrogen (as N _{org})	mg/L	IS 3025 (Part 34) - 1988, Macro-Kjeldahl followed by Nesslerization
44	Kjeldahl Nitrogen (as N)	mg/L	IS 3025 (Part 34) - 1988, Macro-Kjeldahl followed by Nesslerization
45	Total Phosphorus (as P)	mg/L	IS 3025 (Part 31) - 1988, Stannous Chloride
46	Dissolved Phosphorus (as P)	mg/L	IS 3025 (Part 31) - 1988, Stannous Chloride
47	Silica (as SiO ₂)	mg/L	APHA (23 rd Edition) 2017 - 4500 SiO ₂ C
48	Iron (as Fe)	mg/L	IS 3025 (Part 53) - 2003, 1,10 Phenanthroline
49	Fluoride (as F)	mg/L	APHA (23 rd Edition) 2017 - 4500 F ⁻ D
50	Hydrazine (as N ₂ H ₄)	mg/L	IS 3550:1965

List of Test Parameters are not covered under our NABL scope for Water and Wastewater

1	Mineral Oil	mg/L	Lab Developed Method
2	Jar Test	---	Lab Developed Method
3	Aeration Water Microorganisms observation using Microscope	---	Lab Developed Method

Note: IS - Indian Standards; APHA - American Public Health Association; μ S/cm - microsiemens/centimeter; mL - millilitres; °C - degree Celsius; mL/g - millilitres/gram; mg/L - milligrams/litre; NTU - Nephelometric Turbidity Unit;