

Laboratory **Nexus Test Labs Pvt. Ltd., No. 29, 2nd Floor, 3rd Cross,
Singaiahnapalya, Mahadevapura, Bangalore, Karnataka**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5069 (in lieu of T-3362 & T-3363)**

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Validity **01.04.2017 to 31.03.2019**

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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.	Drinking Water R.O. Water, Ground Water, Surface Water, Treated Water.	Total Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml,< 1) MPN/100ml
		Faecal Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml,< 1) MPN/100ml
		Escherichia Coli	IS: 1622	Qualitative (Detected /Not Detected per 100ml)
2.	Waste Water/ Effluents Sewage Water	Total Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml,< 1) MPN/100ml
		Faecal Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml,< 1) MPN/100ml
		Escherichia Coli	IS: 1622	Qualitative (Detected /Not Detected per 100ml)
3.	Water for Swimming Pools	Total Coliforms	IS: 1622	<1 MPN per 100ml
		Standard Plate Count	Annexure A of IS:3328	1cfu/ml
4.	Water for Ice Manufacture	Total Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml) MPN/100ml
		Standard Plate Count	IS: 1622	1cfu/ml
5.	Water for Processed Food Industry	Total Coliforms	IS: 1622	Qualitative (Detected /Not Detected per 100ml) MPN/100ml
		Standard Plate Count	IS: 1622	1cfu/ml

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6.	Packaged drinking water (Other than Natural Mineral Water)	Aerobic Microbial count@22°C	IS: 5402	100 cfu/ml
		Aerobic Microbial count@37°C	IS:5402	20 cfu/ml
		Yeast and Mould count	IS:5403	Qualitative (Present/Absent per 250ml)
		Escherichia coli	IS:15185	Qualitative (Present/Absent per 250ml)
		Coliforms	IS:15185	Qualitative (Present/Absent per 250ml)
		Pseudomonas aeruginosa	Annex D of IS 13428	Qualitative (Present/Absent per 250ml)
		Sulphite Reducing anaerobes	Annex C of IS 13428	Qualitative (Present/Absent per 50ml)
		Faecal streptococci	IS: 5887(Part 2) IS:15186	Qualitative (Present/Absent per 250ml)
		Staphylococcus aureus	IS: 5887(Part 2),	Qualitative (Present/Absent per 250ml)
		Salmonella	IS :15187)	Qualitative (Present/Absent per 250ml)
		Shigella	IS :5887(Part-7)	Qualitative (Present/Absent per 250ml)
		Vibrio Cholera	IS:5887(Part-5)	Qualitative (Present/Absent per 250ml)

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		Vibrio parahaemolyticus	IS: 5887(Part-5)	Qualitative (Present/Absent per 250ml)
II.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Cooked food, Raw food, Processed food, Ready to eat and Convenience meal	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonellaspp	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigellaspp	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic Microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
	Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml	
2.	Coffee &Tea	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)

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		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml
3.	Cereals, Pulses & Products	Faecal Streptococci	IS: 5887(Part 2) (RA - 2009)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1) (RA- 2009)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml
4.	Fruit, Vegetables & Products	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)

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		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml
5.	Meat and Meat Products	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml
6.	Fish and Fish Products	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)

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		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml
7.	Milk and Milk Products	Faecal Streptococci	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Escherichia Coli	IS: 5887(Part 1)	Qualitative (Present/ Absent per 25g/ml)
		Staphylococcus aureus	IS: 5887(Part 2)	Qualitative (Present/ Absent per 25g/ml)
		Salmonella	IS:5887(Part3)	Qualitative (Present/ Absent per 25g/ml)
		Shigella	IS:5887(Part7)	Qualitative (Present/ Absent per 25g/ml)
		Total Aerobic microbial Count	IS: 5402	10 ¹ to 10 ⁶ cfu/g/ml
		Yeast &Moulds	IS: 5403	10 ¹ to 10 ⁶ cfu/g/ml
		Coliforms	IS: 5401(Part 1)	10 ¹ to 10 ⁶ cfu/g/ml

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CHEMICAL TESTING

I.	WATER			
1.	Drinking Water, Bore well Water, Ground Water, Surface water, Treated Water WTP Water, Softener Water, R.O Water, Construction Water	Odour	IS 3025(Part6) APHA 22nd Edition. 2150-B- Page No: 2-16 to 2-19	Qualitative (Objectionable/ Unobjectionable)
		Conductivity	APHA 22nd Edition 2510-B-Laboratory Method Page No: 2-54 to 2-55	1 to 100000 µs/cm
		Turbidity	IS 3025(Part 10) APHA 22nd Edition 2130-B- Nephelometric Method Page No: 2-13 to 2-15	0.1 to 1000NTU
		Total Dissolved Solids	IS 3025(Part 16) APHA 22nd Edition 2540-C-Total Dissolved Solids Dried at 180°C Page No: 2-65	1 to100000mg/l
		Chloride	IS 3025(Part 32) APHA 22nd Edition 4500-Cl ⁻ , B-Argentomeric Method Page No: 4-72 to 4-73	1 to 10000mg/l
		Alkalinity	IS 3025(Part 23) APHA 22nd Edition 2320-B-Titration Method Page No: 2-34 to 2-36	2 to 10000 mg/l
		Total Hardness	IS 3025(Part 21) APHA 22nd Edition 2340-C- Page No: 2-44 to 2-46	1 to 10000mg/l
		Calcium	IS 3025 (Part 40): APHA 22nd Edition.3500-Ca, B- EDTA Titration Method Page No: 3-67 to 3-68	0.4 to 5000mg/l

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		Magnesium	IS 3025(Part 46) APHA 22nd Edition 3500-Mg,B-Calculation Method Page No: 3-84	0.24 to 2000 mg/l
		Fluoride	IS 3025(Part 60) APHA 22nd Edition 4500-F, D- Page No: 4-87 to 4-88 IS 3025(Part 34)	0.05 to 10 mg/L
		Nitrate Nitrogen as NO ₃	IS 3025(Part 34) APHA 22nd Edition, 4500- NO ₃ ⁻ ,B- Page No: 4-122 to 4-123 APHA 22nd Edition	0.05 to 500 mg/l
		Nitrite Nitrogen as NO ₂	IS 3025(Part 34) APHA 22nd Edition,4500- NO ₂ ⁻ ,B- Page No: 4-120 to 4-121	1 to 200mg/l
		Iron	IS 3025(Part 53) APHA 22nd Edition 2012 3500-Fe, B Page No: 3-77 to 3-80	0.05 to 10mg/l
		Sulphate	IS 3025(Part 24) APHA 22nd Edition 4500 - SO ₄ ²⁻ , E Page No: 4-190 to 4-191	1 to 1000 mg/l
		Boron	IS: 3025 (Part-24) APHA 22nd Edition 4500- B,B-Curcumin Method Page No: 4-25 to 4-26	0.01 to 10 mg/l
		Sodium	IS 3025(Part 45) APHA 22nd Edition 3500-Na, B- Page No: 3-97 to 3-98	0.1 to 1000 mg/l
		Potassium	IS 3025(Part 45) APHA 22nd Edition,3500-K, B- Page No: 3-87 to 3-88	0.1 to 200 mg/l

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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
		Residual free chlorine	IS 3025(Part 26) APHA 22nd Edition,4500-Cl, B- Page No: 4-60 to 4-62	0.1 to 100 mg/L
		Total Suspended Solids	IS 3025(Part 17) APHA 22nd Edition,2540, D- Page No: 2-66 to 2-67	1 to 100mg/l
		Oil & grease	IS 3025(Part 39) APHA 22nd Edition 5520,B-Page No: 5-40 to 5-41	0.2 to 1000 mg/L
		Acidity	IS 3025(Part 22) APHA 22nd Edition 2310,B-Page No: 2-31 to 2-33	1 to 10000 mg/l
		Ammonical nitrogen	APHA 22nd Edition 4500-NH3,C Page No: 4-112	1 to 400 mg/l
		Total Kjeldhal Nitrogen	APHA 22nd Edition 4500-NO3-,B- Page No: 4-122 to 4-123 APHA 22nd Edition 4500-NO3 E, Page No: 4-125 to 4-126	1 to 1000 mg/l
		Sulphide	IS 3025 (PART 29) APHA 22nd Edition,4500-S ²⁻ , F- Page No: 4-178	0.2 to 100 mg/l
		Phosphate	IS 3025 (PART 31) APHA 22nd Edition 4500-P,D- Page No: 4-154 to 4-155	0.1 to 250 mg/l
		Settable solids	IS 3025 (PART 19) APHA 22nd Edition 4540, F Page No 2-67 to 2-68	1 to 20000 mg/L
		Sludge volume index	APHA 22nd Edition 2710, D,Page No: 2-90	25 to 250
		Residual sodium carbonate	IS :11624	0.1 to 10m.eqs/L
		pH Value	IS 3025(Part 11)	1 to 14

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			APHA 22nd Edition.4500-H ⁺ , B-Page No: 4-92 to 4-95	
		Sodium absorption ratio	IS:3025 (PART 45)	1 to 20
		Sodium	IS :11624	1 to 100%
		Fixed dissolved solids	IS 3025 (PART 18)	1 to 10000 mg/L
		Volatile solids	IS 3025 (PART 18) APHA 22nd Edition 2540, E Page No 2-67	1 to 10000 mg/L
		Hexavalent chromium	IS 3025 (PART 52) APHA 22nd Edition 2012 3500-cr,B Page No: 3-69 to 3-70	0.1 to 10 mg/L
		Carbonates	IS 3025 (PART 52)	1.0 to 5000 mg/L
		Bicarbonates	IS 3025 (PART 52)	1.0 to 5000 mg/L
		Temperature	IS 3025 (PART 9) APHA 22nd Edition 2550-B- Page No:2-69 to 2-70	Amb -50 °C
		Sulphite	IS 3025(Part28) /APHA 22nd Edition, 4500- SO ₃ ⁻ , B-Iodometric Method, Page No: 4-186	0.1 to 20mg/L
		Carbon dioxide	IS 3025 (Part 63) APHA 22nd Edition, 4500- CO ₂ , C Page No: 431-436	1 to 100 mg/L
		Phenolic compounds	IS 3025 (PART 43) APHA 22nd Edition 5530, C-Page No-5-47 to 5-49	0.001 to 2mg/L
		Organic nitrogen	IS 3025 (PART 34) APHA 22nd Edition, 4500,Page No 4-132, 4-133	1 to 400mg/L
		Total solids	IS 3025 (PART 15) APHA 22nd Edition, 2540, B-1050C Page No:2-67	1 to 50000 mg/L
		Colour	IS 3025 (part 4)	1 to 100 units

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		Taste	IS 3025 (part 8)	Qualitative (Agreeable/Not agreeable)
		Ammonia	IS 3025 (part 34)	0.1 to 100 mg/l
		Manganese	IS 3025 (part 59)	0.2 to 10 mg/l
		Aluminium	IS 15302	0.2 to 10 mg/l
		Silica	IS 3025 (part 35)	0.1 to 50 mg/l
		Barium	IS 15302	0.2 to 10 mg/l
		Molybdenum	IS 3025 (part 2)	0.2 to 20 mg/l
		Nickel	IS 3025 (part 54)	0.1 to 8.0 mg/l
		Copper	IS 3025 (part 42)	0.1 to 10 mg/l
		Zinc	IS 3025 (part 49)	0.2 to 10 mg/l
		Selenium	IS 3025 (part 56)	0.02 to 10 mg/l
		Mercury	IS 3025 (part 48)	0.05 to 10 mg/l
		Cadmium	IS 3025 (part 41)	0.1 to 5.0 mg/l
		Arsenic	IS 3025 (part 37)	0.05 to 10 mg/l
		Lead	IS 3025 (part 47)	1.0 to 10 mg/l
		Total chromium	IS 3025 (part 52)	0.1 to 10 mg/l
II.	POLLUTION & ENVIRONMENT			
1.	Effluent Water Waste Water Sewage Water Swimming pool Water Recirculation water	pH value	IS 3025(Part 11) APHA 22nd Edition,4500-H ⁺ , B-Page No: 4-92 to 4-95	1 to 14
		Odour	IS 3025(Part6):1983 RA 2012 APHA 22nd Edition 2012. 2150-B-Threshold Odor Test Page No: 2-16 to 2-19	Qualitative (Objectionable/ unobjectionable)
		Conductivity	APHA 22nd Edition,2510-B- Page No: 2-54 to 2-55	1 to 100000 µs/cm
		Turbidity	APHA 22nd Edition, 2510-B- Laboratory Method Page No: 2-54 to 2-55	0.1 to 1000 NTU

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		Total Dissolved Solids	IS 3025(Part 16) APHA 22nd Edition 2540-C-Total Dissolved Solids Dried at 180°C Page No: 2-65	1 to 100000 mg/l
		Chloride	IS 3025(Part 32) APHA 22nd Edition, 4500-Cl ⁻ , B-Argentometric Method Page No: 4-72 to 4-73	1 to 10000 mg/l
		Alkalinity	IS 3025(Part 23) APHA 22nd Edition 2320-B-Titration Method Page No: 2-34 to 2-36	2 to 10000 mg/l
		Total Hardness	IS 3025(Part 21) APHA 22nd Edition 2340-C- Page No: 2-44 to 2-46 IS 3025(Part 40)	2 to 10000 mg/l
		Calcium	IS 3025 (Part 40) APHA 22nd Edition,3500-Ca, B- EDTA Titration Method Page No: 3-67 to 3-68	0.4 to 5000 mg/l
		Magnesium	IS 3025(Part 46) APHA 22nd Edition 3500-Mg,B-Calculation Method Page No: 3-84	0.24 to 2000 mg/l
		Fluoride	IS 3025(Part 60) APHA 22nd Edition 4500-F ⁻ ,D- Page No: 4-87 to 4-88 IS 3025(Part 34)	0.05 to 10 mg/L
		Nitrate Nitrogen as NO ₃	IS 3025(Part 34) APHA 22nd Edition 4500-NO ₃ ⁻ ,B- Page No: 4-122 to 4-123 APHA 22nd Edition	0.05 to 500 mg/l

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		Nitrite Nitrogen as NO ₂	IS 3025(Part 34) APHA 22nd Edition 2,4500-NO ₂ ⁻ ,B- Page No: 4-120 to 4-121	0.05 to 200mg/l
		Iron	IS 3025(Part 53) APHA 22nd Edition,3500-Fe, B Page No: 3-77 to 3-80	0.1 to 10mg/l
		Sulphate	IS: 3025 (Part-24) APHA 22nd Edition, 4500 - SO ₄ ²⁻ ,E Page No: 4-190 to 4-191	1 to 1000 mg/l
		Boron	IS: 3025 (Part-24) APHA 22nd Edition 4500-B,B-Curcumin Method Page No: 4-25 to 4-26	0.01 to 10mg/l
		Sodium	IS 3025(Part 45) APHA 22nd Edition 3500-Na,B- Page No: 3-97 to 3-98	0.1 to 1000 mg/l
		Potassium	IS 3025(Part 45) APHA 22nd Edition 2012,3500-K, B- Page No: 3-87 to 3-88	0.1 to 200 mg/L
		Chemical oxygen demand	IS 3025(Part 58) APHA 22nd Edition 2012, 5520 B, Page No:5-17 to 3-88	4 to 50000 mg/L
		Biochemical oxygen demand	IS 3025 (PART44) APHA 22nd Edition 2012, 5210,B page No 5-5 to 5-10	1 to 30000 mg/L
		Dissolved oxygen	IS 3025 (PART38)	0.1 to 10 mg/L
		Residual free chlorine	IS 3025 (PART26) APHA 22nd Edition 4500-Cl, B, Page No 4-60 to 4-62	0.1 to 100 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

TC-5069 (in lieu of T-3362 & T-3363)

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Validity

01.04.2017 to 31.03.2019

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
		Total Suspended Solids	IS 3025(Part 17) APHA 22nd Edition 2540, D- Page No: 2-66 to 2-67	1 to 1000 mg/l
		Oil & grease	IS 3025(Part 39) APHA 22nd Edition 5520,B- Page No: 5-40 to 5-41	0.2 to 1000 mg/L
		Acidity	IS 3025(Part 22) APHA 22nd Edition 2310,B- Page No: 2-31 to 2-33	1 to 10000 mg/l
		Ammonical nitrogen	APHA 22nd Edition 4500- NH3, C Page No: 4-112	1 to 500 mg/l
		Total Kjeldhal Nitrogen	APHA 22nd Edition 4500-NO3-,B- Page No: 4-122 to 4-123 APHA 22nd Edition 4500- NO3 E, Page No: 4-125 to 4-126	1 to 1000 mg/l
		Sulphite	IS 3025 (PART-28) APHA APHA 22nd Edition 4500-SO3, B Iodometric method Page No 4-186	1 to 100 mg/L
		Sulphide	IS 3025 (PART- 29) APHA 22nd Edition 4500, S ²⁻ , F- Page No: 4-178	1 to 100 mg/l
		Phosphate	IS 3025 (PART 31) APHA 22nd Edition 4500-P,D- Page No:4-154 to 4-155	0.1 to 250mg/l
		Settlable solids	IS 3025 (PART 19) APHA 22nd Edition 4540, F, Page No 2-67 to 2-68	1 to 20000 mg/L

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		Sludge volume index	APHA 22nd Edition 2710, D, Page No: 2-90	25 to 250
		Residual sodium carbonate	IS :11624	0.1 to 10m.eqs/L
		Sodium Absorption Ratio	IS:3025 (PART 45)	1 to 20
		Sodium	IS :11624	1.0 to 100%
		Fixed dissolved solids	IS 3025 (PART 18) APHA 22nd Edition, 2540, E Page No: 2-67	1 to 10000 mg/L
		Volatile solids	IS 3025 (PART 18) APHA 22nd Edition,2540, E Page No 2-67	1 to 10000 mg/L
		Hexavalent chromium	IS 3025 (PART 52) APHA 22nd Edition 3500-cr,B Page No: 3-69 to 3-70	0.1 to .10 mg/L
		Carbonates	IS 3025 (PART 52)	1.0 to 5000 mg/L
		Bicarbonates	IS 3025 (PART 52)	1.0 to 5000 mg/L
		Temperature	IS 3025 (PART 9) RA 2006 APHA 22nd Edition, 2550-B- Page No 2-69 to 2-70	Amb -50 ⁰ C
		Oxygen absorbed in 4hrs	IS 3025 (Part 63) Page No:1- 3	0.4 to 5 mg/L
		Carbon dioxide	IS 3025 (Part 63) APHA 22nd Edition 4500 CO ₂ ,C Page No:431 -436	1 to 100 mg/L
		Phenolic compounds	IS 3025 (PART 43) APHA 22nd Edition, 5530-C Page No 5-47 to 5-49	0.001 to 2 mg/L
		Organic nitrogen	IS 3025 (PART 34) APHA 22nd Edition 2012, 4500,Page No 4-132, 4-133	1 to 400 mg/L

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		Total Solids	IS 3025 (PART 15) APHA 22nd Edition,2540, B-1050C Page No:2-67	1 to 50000 mg/L
		Colour	IS 3025 (part 4)	Qualitative (Agreeable/Not agreeable)
		Ammonia	IS 3025 (part 34)	0.01 to 100 mg/l
		Manganese	IS 3025 (part 59)	0.02 to 10 mg/l
		Aluminium	IS 3025 (part 55)	0.2 to 10 mg/l
		Silica	IS 3025 (part 35)	0.1 to 50 mg/l
		Barium	IS 15302	0.2 to 10 mg/l
		Molybdenum	IS 3025 (part 2)	0.2 to 20 mg/l
		Nickel	IS 3025 (part 54)	0.1 to 8.0 mg/l
		Copper	IS 3025 (part 42)	0.1 to 10 mg/l
		zinc	IS 3025 (part 49)	0.2 to 10 mg/l
		Selenium	IS 3025 (part 56)	0.02 to 10 mg/l
		Mercury	IS 3025 (part 48)	0.05 to 10 mg/l
		Cadmium	IS 3025 (part 41)	0.1 to 5.0 mg/l
		Arsenic	IS 3025 (part 37)	0.05 to 10 mg/l
		Lead	IS 3025 (part 47)	1.0 to 10 mg/l
		Total chromium	IS 3025 (part 52)	0.1 to 10 mg/l
III.	ATMOSPHERIC POLLUTION			
1.	Stack Monitoring	Velocity	IS:11255(Part3)	1.0 m/s to 60 m/s
		Particulate Matter	IS:11255(Part1)	5.0 to 5000 mg/Nm3
		Oxides of Sulphur	IS:11255(Part2)	3.0 mg/Nm3 to 1000 mg/Nm3
		Oxides of Nitrogen	IS:11255(Part7)	3.0 mg/Nm3 to 1000 mg/Nm3
		Carbon Monoxide(stack)	NTLPL/A/SOP-06 Issue Date 28.09.2016	Upto 4000ppm
		NMHC (stack)	NTLPL/A/SOP-06 Issue Date 28.09.2016	Upto 30,000 mg/Nm3

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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
		Acid mist(stack)	USEPA Method (Test method 8)	1 to 100 mg/Nm ³
		Flow discharge rate(stack)	IS:11255(Part3)	100 to 500000
		Emission Rate	IS:11255(Part3)	0.001 to 50 kg/hr
2.	Ambient Air Monitoring	Sulphur Dioxide(SO ₂) µg/m ³	IS: 5182 (part II)	3.0 µg/m ³ to 500 µg/m ³
		Nitrogen Dioxide(NO ₂) µg/m ³	IS: 5182 (Part VI)	3.0 µg/m ³ to 500 µg/m ³
		Particulate Matter(Size less than10µm)or PM10	IS: 5182 (Part 23)	5.0 µg/m ³ to 500 µg/m ³
		Particulate Matte(Size less than2.5µm)or PM2.5	CPCB Manual VOL.1 Guidelines for the measurement of air pollutants Page No: 15 to 30	5.0 µg/m ³ to 500 µg/m ³
		Suspended Particulate Matter	IS: 5182 (Part 4) :1999 (RA 2014)	5.0 µg/m ³ to 1000 µg/m ³
		Lead	IS 5182 (Part 22):2004 (RA 2014)	3 µg/m ³ to 100 µg/m ³
		Arsenic	NTLPL/A/SOP-20, issue date 28.09.2016	5ng /m ³ to 100ng/m ³
		Nickel	NTLPL/A/SOP-21, issue date 28.09.2016	3ng/m ³ to 100ng/m ³
		Carbon Monoxide	IS 5182 (Part 10)	200 µg/m ³ to 2500 µg/m ³
		Ozone	IS 5182 (Part 9)	10 µg/m ³ to 250 µg/m ³
		Ammonia	NTLPL/A/SQ&12, issue date 28.09.2016	20 µg/m ³ to 500 µg/m ³
3.	Ambient Noise	Leq, SPL	IS :9989	40 to 120dB(A)

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