

Laboratory Centre for Envotech and Management Consultancy Pvt. Ltd.
(Lab Division), Plot No. 800/1274, Johal, Pahal, Bhubaneswar, Odisha

Accreditation Standard ISO/IEC 17025: 2017

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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.	ENVIRONMENT & POLLUTION			
1.	Effluent Water	E.Coli	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Faecal Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
2.	Sewage Water	E.Coli	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Faecal Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
II.	WATER			
1.	Drinking Water	E.Coli	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Plate Count	IS 1622:1981 (RA 2014)	<1 CFU/1ml to 500 CFU/1ml
2.	Ground Water	E.Coli	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Faecal Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Plate Count	IS 1622:1981 (RA 2014)	<1 CFU/1ml to 500 CFU/1ml

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3.	Surface Water	E.Coli	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Faecal Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml
		Total Coliform	IS 1622:1981 (RA 2014)	<2 MPN/100ml to 1600 MPN/100ml

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CHEMICAL TESTING

I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Ammonia (NH ₃)	CEMC/SOP/A/02, Issue No. 1, Dated 01.10.2014	20 µg/m ³ to 700 µg/m ³
		Arsenic	CEMC/SOP/A/03, Issue No. 1, Dated 01.10.2014	0.1 ng/m ³ to 50 µg/m ³
		Lead (Pb)	IS 5182 (Part-22) 2004(RA 2014) (AAS Method)	0.01 µg/m ³ to 100 µg/m ³
		Nickel	CEMC/SOP/A/04, Issue No. 1, Dated 01.10.2014	3.2 ng/m ³ to 30 ng/m ³
		Oxidants-Ozone (O ₃)	IS 5182 (Part-9):1974 (RA 2014) (UV Photometric Method)	10 µg/m ³ to 200 µg/m ³
		Oxides Of Nitrogen (NO _x)	IS 5182 (Part-6):2006 (RA 2017) (Jacob Hochheiser Modified Sodium Arsinite Method)	9 µg/m ³ to 100 µg/m ³
		PM 10	IS 5182 (Part-23):2006 (RA 2017) (Gravimetric Method)	5 µg/m ³ to 1000 µg/m ³
		PM 2.5	CEMC/SOP/A/01, Issue No.1, Dated 01.10.2014	5 µg/m ³ to 200 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part-2):2001 (RA 2017) (Improved West And Gaeke Method)	4 µg/m ³ to 100 µg/m ³

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2.	Ambient Noise (Excluding Vibration)	Ambient Noise Leq (dB (A))	CEMC/SOP/N/01, Issue No. 01, Dated 01.10.2014	35 dB (A) to 130 dB (A)
3.	Fugitive Emission	NRPM	IS 5182 (Part-4):2006 (RA 2014) (Gravimetric Method)	10 µg/m ³ to 10000 µg/m ³
		PM 10	IS 5182 (Part-23):2006 (RA 2017) (Gravimetric Method)	5 µg/m ³ to 1000 µg/m ³
		SPM	IS 5182 (Part-4):2006 (RA 2014) (Gravimetric Method)	10 µg/m ³ to µg/m ³
4.	Meteorological Parameter	Barometric Pressure	CEMC/SOP/M/01, Issue No.1, Dated 01.08.2018	Qualitative
		Heat Index	CEMC/SOP/M/01, Issue No. 1, Dated 01.08.2018	Qualitative
		Rain Fall	CEMC/SOP/M/01, Issue No. 1, Dated 01.08.2018	Qualitative
		Relative Humidity	CEMC/SOP/M/01, Issue No.1, Dated 01.08.2018	5 % to 100 %
		Temperature	CEMC/SOP/M/01, Issue No.1, Dated 01.08.2018	(-)10 °C to 60 °C
		Wind Direction	CEMC/SOP/M/01, Issue No.1, Dated 01.08.2018	Qualitative
		Wind Speed	CEMC/SOP/M/01, Issue No.1, Dated 01.08.2018	Qualitative

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5.	Process/ Vent Emission	PM	IS 11255 (Part-1):1985 (RA 2014) (Gravimetric Method)	1 mg/Nm ³ to 5000 mg/Nm ³
		O ₂	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 21 %
		Sulphur Dioxide (SO ₂)	IS 11255:1985 (Part-2) (RA 2014) (IPA Thorin Method)	1 mg/Nm ³ to 1000 mg/Nm ³
		CO	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 20 %
		CO ₂	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 20 %
		Flow Rate	IS 11255 (Part-3):1985 (RA 2013)	1 m/sec to 200 m/sec
		Oxide Of Nitrogen (NO _x)	IS 11255 (Part-7):2005 (RA 2017)	2 mg/Nm ³ to 1000 mg/Nm ³
		Pressure	IS 11255 (Part-3):1985 (RA 2013)	0.2 mmH ₂ O to 100 mmH ₂ O
		Temperature	IS 11255 (Part-3):1985 (RA 2013)	10 °C to 500 °C
		Velocity	IS 11255 (Part-3):1985 (RA 2013)	1.6 m/sec to 50 m/sec
6	Source Noise Levels (Excluding Vibration)			
A.	DG SET	Noise Level (Leq)	CEMC/SOP/N/01, Issue No.01, Dated 01.10.2014	35 dB(A) to 130 dB(A)
7.	Stack Emission			
A.	Dg Stack Emission	CO	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 20 %
		CO ₂	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 20 %
		Flow Rate	IS 11255 (Part-3):1985 (RA 2013)	1 m/sec to 200 m/sec
		O ₂	IS 13270:1992 (RA 2014) (Orsat Analysis)	0.2 % to 21 %

Ajay Kumar Sharma
Convenor

Venugopal C
Program Manager

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		Oxide Of Nitrogen (NOx)	IS 11255 (Part-7):2005 (RA 2017)	2 mg/Nm ³ to 1000 mg/Nm ³
		PM	IS 11255 (Part-1):1985 (RA 2014) (Gravimetric Method)	1 mg/Nm ³ to 5000 mg/Nm ³
		Pressure	IS 11255 (Part-3):1985 (RA 2013)	0.2 mmH ₂ O to 100 mmH ₂ O
		Sulphur Dioxide (SO ₂)	IS 11255 (Part-2):1985 (RA 2014) (IPA Thorin Method)	1 mg/Nm ³ to 1000 mg/Nm ³
		Temperature	IS 11255 (Part-3):1985 (RA 2013)	10 °C to 500 °C
		Velocity	IS 11255 (Part-3):1985 (RA 2013)	1.6 m/sec to 50 m/sec
8	Work Environment And Indoor Air Quality			
A.	Indoor Air Quality	Particulate Matter (PM)	IS 5182 (Part-23):2006 (RA 2017) (Gravimetric Method)	1 µg/m ³ to 500 µg/m ³
		Relative Humidity	CEMC/SOP/A/06, Issue No.1, Dated 01.10.2014	35 % to 98 %
		Temperature	CEMC/SOP/A/05, Issue No.1, Dated 01.10.2014	20 °C to 50 °C
II.	POLLUTION & ENVIRONMENT			
1.	Effluent	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 0.05 mg/L
		BOD-3 DAYS	IS 3025 (Part-44):1993 (RA 2014)	2 mg/L to 50000 mg/L
		BOD-5 DAYS	APHA 23rd Ed 5210 B:2017	2 mg/L to 50000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L

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		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-CI-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	4 mg/L to 50000 mg/L
		Colour	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 1 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved oxygen	APHA 23rd Ed 4500-O C:2017	0.1 mg/L to 8 mg/L
		Fixed solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 5 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 100 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 1 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	1 mg/L to 100 mg/L
		Oil and grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		p-Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 100 mg/L
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.03 mg/L to 500 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L

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		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		TDS	APHA 23rd Ed 2540 C:2017	5 mg/L to 10000 mg/L
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 1000 mg/L
		Total chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 5 mg/L
		Total hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 5000 mg/L
		Total solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		TSS	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile soild	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2014	1 to 13
2.	Sewage	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 0.05 mg/L
		BOD-3 Days	IS 3025 (Part-44):1993 (RA 2014)	2 mg/L to 50000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 50000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-CI-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 50000 mg/L
		Colour	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 1 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L

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		Dissolved oxygen	APHA 23rd Ed 4500-O C:2017	0.1 mg/L to 8 mg/L
		Fixed solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 5 mg/L
		IRON	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 100 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 1 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	1 mg/L to 100 mg/L
		Oil and grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		p-Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.03 mg/L to 500 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		TDS	APHA 23rd Ed 2540 C:2017	5 mg/L to 10000 mg/L
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 1000 mg/L
		Total chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 5 mg/L
		Total hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 5000 mg/L

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		Total solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		TSS	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
III.	WATER			
1.	Construction Water	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-4):1993 (RA 2014)	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 5000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Colour	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 70 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 5 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical conductivity	APHA 23rd Ed 2510 B:2017	0.5 µS/cm to 100 mS/cm
		Fixed solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L

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		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L
		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Odour	APHA 23rd Ed 2150 B:2017	Qualitative
		Oil And Grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		P-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 g/L to 20 g/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Taste	APHA 23rd Ed 2160 C:2017	Qualitative
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 50 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L
		Total Hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 10000 mg/L
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L

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2.	Drinking Water	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-44):1993 (RA 2014)	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 5000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Color	IS 3025, (Part-4),:1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 5 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical conductivity	APHA 23rd Ed 2510 B:2017	5 µS/cm to 100 mS/cm
		Fixed solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L

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		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Odour	APHA 23rd Ed 2150 B:2017	Qualitative
		Oil and grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		P-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 to 20
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Taste	APHA 23rd Ed 2160 C:2017	Qualitative
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 50 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L
		Total Hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 10000 mg/L
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
3.	Ground Water	Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-44):1993 (RA 2014)	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 to 5000

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		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Color	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 to 5
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved Oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical Conductivity	APHA 23rd Ed 2510 B:2017	5 µS/cm to 100 mS/cm
		Fixed Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent Chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L
		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Odour	APHA 23rd Ed 2150 B:2017	Qualitative
		Oil And Grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 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
		P-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 g/L to 20 g/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Taste	APHA 23rd Ed 2160 C:2017	Qualitative
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 50 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L
		Total Hardness	APHA 23rd Ed 2340 C:2017	2 to 10000
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
4.	Industrial Water	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-44) (RA 2014):1993	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 5000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	2 mg/L to 10000 mg/L

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		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Color	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 5 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved Oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical Conductivity	APHA 23rd Ed 2510 B:2017	5 µS/cm to 100 mS/cm
		Fixed Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent Chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L
		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Oil & Grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		p-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 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
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 g/L to 20 g/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 50 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L
		Total Hardness	APHA 23rd Ed 2340 C:2017	1 mg/L to 13 mg/L
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 1000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
5.	Irrigation Water	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-44) (RA 2014):1993	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 5000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	0.05 mg/L to 25 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Colour	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 5 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L

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		Dissolved Oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical Conductivity	APHA 23rd Ed 2510 B:2017	5 µS/cm to 100 mS/cm
		Fixed Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 25 mg/L
		Hexavalent Chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nickel	APHA 23rd Ed 3111 B:2017	0.05 mg/L to 5 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L
		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Odour	APHA 23rd Ed 2150 B:2017	Qualitative
		Oil And Grease	APHA 23rd Ed 5520 B:2017	1 mg/L to 1000 mg/L
		p-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 g/L to 20 g/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 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
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Taste	APHA 23rd Ed 2160 C:2017	Qualitative
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 20 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L
		Total Hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 10000 mg/L
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L
6.	Surface Water	Arsenic	APHA 23rd Ed 3114 B:2017	0.001 mg/L to 1 mg/L
		BOD-3 Days	IS 3025 (Part-44):1993 (RA 2014)	2 mg/L to 5000 mg/L
		BOD-5 Days	APHA 23rd Ed 5210 B:2017	2 mg/L to 5000 mg/L
		Boron	APHA 23rd Ed 4500-B C:2017	0.2 mg/L to 100 mg/L
		Cadmium	APHA 23rd Ed 3500-Cd:2017	0.01 mg/L to 1 mg/L
		Calcium	APHA 23rd Ed 3500-Ca B:2017	2 mg/L to 1000 mg/L
		Chloride	APHA 23rd Ed 4500-Cl-B:2017	2 mg/L to 10000 mg/L
		COD	APHA 23rd Ed 5220 B:2017	5 mg/L to 1000 mg/L
		Colour	IS 3025 (PART-4):1983 (RA 2017)	5 HAZEN to 500 HAZEN
		Copper	APHA 23rd Ed 3111 B:2017	0.03 mg/L to 0.05 mg/L
		Cyanide	APHA 23rd Ed 4500-CN B D:2017	1 mg/L to 30 mg/L
		Dissolved Oxygen	APHA 23rd Ed 4500-O C:2017	0.5 mg/L to 14 mg/L
		Electrical Conductivity	APHA 23rd Ed 2510 B:2017	5 µS/cm to 100 mS/cm
		Fixed Solid	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L

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		Fluoride	APHA 23rd Ed 4500-F-D:2017	0.05 mg/L to 250 mg/L
		Hexavalent Chromium	APHA 23rd Ed 3500-Cr B:2017	0.05 mg/L to 20 mg/L
		Iron	APHA 23rd Ed 3500-Fe B:2017	0.05 mg/L to 50 mg/L
		Lead	APHA 23rd Ed 3111 B:2017	0.1 mg/L to 5 mg/L
		Magnesium	APHA 23rd Ed 3500-Mg B:2017	2 mg/L to 1000 mg/L
		Manganese	APHA 23rd Ed 3111 B:2017	0.02 mg/L to 1 mg/L
		Nitrate	APHA 23rd Ed 4500-NO3-B:2017	0.2 mg/L to 100 mg/L
		Nitrite	APHA 23rd Ed 4500-NO2-B:2017	0.01 mg/L to 50 mg/L
		Odour	APHA 23rd Ed 2150 B:2017	Qualitative
		Oil & Grease	APHA 23rd Ed 5520 B:2017	5 mg/L to 100 mg/L
		p-Alkalinity	APHA 23rd Ed 2320 B:2017	1 mg/L to 100 mg/L
		pH	APHA 23rd Ed 4500-H+ B:2017	1 to 13
		Phenol	APHA 23rd Ed 5530 D:2017	0.01 mg/L to 10 mg/L
		Phosphate	APHA 23rd Ed 4500-P D:2017	0.05 mg/L to 10 mg/L
		Potassium	APHA 23rd Ed 3500-K B:2017	1 mg/L to 2000 mg/L
		Salinity	APHA 23rd Ed 2520 B:2017	0.1 g/L to 20 g/L
		Sodium	APHA 23rd Ed 3500-Na B:2017	1 mg/L to 2000 mg/L
		Sulphate	APHA 23rd Ed 4500-SO42-E:2017	1 mg/L to 1000 mg/L
		Taste	APHA 23rd Ed 2160 C:2017	Qualitative
		Temperature	APHA 23rd Ed 2550 B:2017	20 °C to 50 °C
		Total Alkalinity	APHA 23rd Ed 2320 B:2017	2 mg/L to 2000 mg/L
		Total Chromium	APHA 23rd Ed 3111 D:2017	0.05 mg/L to 50 mg/L
		Total Dissolved Solid	APHA 23rd Ed 2540 C:2017	5 mg/L to 40000 mg/L

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		Total Hardness	APHA 23rd Ed 2340 C:2017	2 mg/L to 10000 mg/L
		Total Solid	APHA 23rd Ed 2540 B:2017	5 mg/L to 40000 mg/L
		Total Suspended Solid	APHA 23rd Ed 2540 D:2017	5 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed 2130 B:2017	1 NTU to 1000 NTU
		Volatile Soild	APHA 23rd Ed 2540 E:2017	5 mg/L to 1000 mg/L
		Zinc	APHA 23rd Ed 3111 B:2017	0.01 mg/L to 1 mg/L