

Laboratory Saturn Quality Certifications Pvt. Ltd. (Research & Analytical Division), V-17, Modern Industrial Estate (M.I.E.), Red Cross Road, Bahadurgarh, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 1 of 17

Validity 01.04.2018 to 31.03.2020

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.	Potable Water/Drinking water/Raw Water/Ground Water/Borewell water	pH	IS:3025 (Part-11), 1983, Reaffirmed 2002/ APHA (22 nd edition-2012), 4500-H+ B	1 to 14
		Total Dissolved Solid	IS:3025 (Part-16), 1984, Reaffirmed 2006/ APHA (22 nd edition-2012), 2540 C	1.0 mg/l to 10000 mg/l
		Conductivity	IS:3025 (Part-14), 1984, Reaffirmed 2003/ APHA (22 nd edition-2012), 2510 B	1 µS/cm to 5 mS/cm
		Turbidity	IS:3025 (Part-10), 1984, Reaffirmed 2006/ APHA (22 nd edition-2012), 2130 B	1NTU to 1000 NTU
		Acidity as CaCO ₃	IS:3025 (Part-22), 1986, Reaffirmed 2003/ APHA (22 nd edition-2012), 2310 B	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS :3025 (Part-23), 1986, Reffirmed 2009/ APHA (22 nd edition-2012), 2320 B	1 mg/l to 1000 mg/l
		Total Hardness as CaCO ₃	IS: 3025 (Part 21), 2009/ APHA (22 nd edition-2012), 2340 C	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS:3025 (Part-40), 1991, Reaffirmed-2003/ APHA (22 nd edition-2012), 3500 Ca B	1.0 mg/l to 1000 mg/l

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Page 2 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Magnesium as Mg	IS:3025 (Part-46),1994 , Reaffirmed 2009/APHA (22 nd edition-2012), 2340B	1 mg/l to 500 mg/l
		Chloride as Cl	IS: 3025 (Part-32),1988, Reaffirmed 2007/ APHA (22 nd edition-2012), 4500-Cl- B	1.0 mg/l to 1000 mg/l
		Temperature	IS: 3025 (Part-9),1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C
		Sulphate as SO ₄	IS: 3025 (Part-24),1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500E	1 mg/l to 400 mg/l
		Residual Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003 APHA (22 nd edition-2012), 3500 Cl- B	0.1 mg/l to 1.0 mg/l
		Phosphate as PO ₄	IS:3025 (Part-31),1988, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500P,D	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS:3025 (Part 28) 1986, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 SO ₃ -B	2 mg/l to 200mg/l
		Silica as SiO ₂	IS : 3025 (Part-35),1988, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 SiO ₂ C	0.2 mg/l to 25 mg/l
		Iron as Fe	IS:3025 (Part-53) 2003, Reaffirmed 2009/ APHA (22 nd edition-2012), 3111 B/C	0.02 mg/l to 100 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 3 of 17

Validity 01.04.2018 to 31.03.2020

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
		Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52),2003/ APHA (22 nd edition-2012), 3500 Cr B	0.05 mg/l to 1 mg/l
		Color	IS:3025 (Part 4),1983, Reaffirmed 2006/ APHA (22 nd edition-2012), 2120 B	1.0 to 500 Hazen Unit
		Phenolic compounds	IS:3025 (Part 43),1992, Reaffirmed 2003/ APHA (22 nd edition-2012), 5530 C/D	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS -3025 (Part-34),1988, Reaffirmed-2003,	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS - 3025 (Part-34), 1988, Reaffirmed-2003	1 mg/l to 100 mg/l
		Nitrogen Nitrate as NO ₃	IS 3025, (P-34), 1988, Reaffirmed-2003	0.1 mg/l to 50.0 mg/l
		Nitrogen Nitrite as NO ₂	IS -3025 (Part-34), 1988, Reaffirmed-2003	0.01 mg/l to 20 mg/l
		Boron as B,	IS :3025 (Part 57),2005, Reaffirmed 2009/APHA (22 nd edition-2012), 4500 B	0.02 mg/l to 2 mg/l
		Anionic Surfactant	APHA (22 nd edition-2012), 5540 C	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS:3025 (Part 60),2008 / APHA (22 nd edition-2012), 4500-F- D	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS:3025 (Part 45),1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 Na B	0.5 mg/l to 100 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 4 of 17

Validity 01.04.2018 to 31.03.2020

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
		Potassium as K	IS:3025 (Part 45),1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 K B	0.1 mg/l to 50 mg/l
		Aluminium	IS :3025 (Part 55),2003/ APHA (22 nd edition-2012), 3500 Al-B,	0.03 mg/l to 0.1 mg/l
		Sulphide	IS :3025 (Part 29),1986, Reaffirmed 2003	0.5 mg/l to 2 mg/l
		Total Solids	IS:3025 (Part 15) 1984 Reaffirmed 2005	1 mg/l to 2000 mg/l
		Odour	IS:3025 (Part 5) 1983 Reaffirmed 2006	Qualitative
		Fixed solids(Inorganic Solids)	IS:3025 (Part 18) 1984 Reaffirmed 2005	5 mg/l to 4000 mg/l
		Manganese as Mn	IS 3025 (P-59) 2006	0.1 mg/l to 0.5 mg/l
		Mercury	IS 3025 (P-48) 1994 Reaffirmed 2003	0.02 mg/l to 1.0 mg/l
		Volatile solids(Organic Solid)	IS:3025 (Part 18) 1984 Reaffirmed 2005	1 mg/l to 1000 mg/l
2.	Swimming Pool Water	pH	IS:3025 (Part-11),1983, Reaffirmed 2002/ APHA (22 nd edition-2012), 4500-H+ B	1 to 14
		Total Dissolved Solid	IS:3025 (Part-16),1984, Reaffirmed 2006/ APHA (22 nd edition-2012), 2540 C	1.0 mg/l to 10000 mg/l
		Conductivity	IS:3025 (Part-14), 1984, Reaffirmed 2003/ APHA (22 nd edition-2012), 2510 B	1 µS/cm to 2 mS/cm

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 5 of 17

Validity 01.04.2018 to 31.03.2020

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
		Turbidity	IS:3025 (Part-10), 1984, Reaffirmed 2006/ APHA (22 nd edition-2012), 2130 B	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS:3025 (Part-22), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 2310 B	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS :3025 (Part-23), 1986, Reffirmed 2009/APHA (22 nd edition-2012), 2320 B	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS: 3025(Part 21), 2009/ APHA (22 nd edition-2012), 2340 C	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS:3025 (Part-40),1991, Reaffirmed-2003/ APHA (22 nd edition-2012), 3500 CaB	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS:3025 (Part-46), 1994, Reaffirmed 2009/APHA (22 nd edition-2012), 2340B	1 mg/l to 300 mg/l
		Chloride as Cl	IS: 3025 (Part-32),1988, Reaffirmed 2007/ APHA (22 nd edition-2012), 4500-Cl- B	1.0 mg/l to 1000 mg/l
		Temperature	IS: 3025 (Part-9), 1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C
		Sulphate as SO ₄	IS: 3025 (Part-24),1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500E	1 mg/l to 400 mg/l
		Residual Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003 APHA (22 nd edition-2012), 3500 Cl- B	0.1 mg/l to 1.0 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 6 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Silica as SiO ₂	IS : 3025 (Part-35), 1988, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 SiO ₂ C	0.2 mg/l to 25 mg/l
		Iron as Fe	IS:3025 (Part-53) 2003, Reaffirmed 2009/ APHA (22 nd edition-2012), 3111 B/C	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52), 2003/ APHA (22 nd edition-2012), 3500 Cr B	0.05 mg/l to 1 mg/l
		Color	IS:3025 (Part 4), 1983, Reaffirmed 2006/APHA (22 nd edition-2012), 2120 B	1.0 Hazen Unit to 500 Hazen Unit
		Nitrogen Nitrate as NO ₃	IS 3025, (P-34), 1988, Reaffirmed-2003	0.1 mg/l to 50.0 mg/l
		Boron as B,	IS :3025 (Part 57), 2005, Reaffirmed 2009/APHA (22 nd edition-2012), 4500 B	0.02 mg/l to 2 mg/l
		Fluoride as F	IS:3025 (Part 60), 2008/ APHA (22 nd edition-2012), 4500-F- D	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS:3025 (Part 45), 1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 Na B	0.5 mg/l to 100 mg/l
		Potassium as K	IS:3025 (Part 45), 1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 K B	0.1 mg/l to 50 mg/l
		Total Solids	IS:3025(Part 15) 1984 Reaffirmed 2005	1 mg/l to 2000 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 7 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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3.	Water for food processing industry	pH	IS:3025 (Part-11), 1983, Reaffirmed 2002/ APHA (22 nd edition-2012), 4500-H+ B	1 to 14
		Total Dissolved Solid	IS:3025 (Part-16), 1984, Reaffirmed 2006/APHA (22 nd edition-2012), 2540 C	1.0 mg/l to 10000 mg/l
		Conductivity	IS:3025 (Part-14), 1984, Reaffirmed 2003/APHA (22 nd edition-2012), 2510 B	1 µS/cm to 2 mS/cm
		Turbidity	IS:3025 (Part-10), 1984, Reaffirmed 2006/APHA (22 nd edition-2012), 2130 B	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS:3025 (Part-22), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 2310 B	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS :3025 (Part-23), 1986, Reffirmed 2009/APHA (22 nd edition-2012), 2320 B	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS: 3025(Part 21), 2009/ APHA (22nd edition-2012), 2340 C	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS:3025 (Part-40), 1991, Reaffirmed-2003/APHA (22 nd edition-2012), 3500 CaB	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS:3025 (Part-46), 1994, Reaffirmed 2009/APHA (22 nd edition-2012), 2340B	1 mg/l to 300 mg/l
		Chloride Cl	IS: 3025 (Part-32),1988, Reaffirmed 2007/APHA (22 nd edition-2012), 4500-Cl- B	1.0 mg/l to 1000 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 8 of 17

Validity 01.04.2018 to 31.03.2020

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
		Temperature	IS: 3025 (Part-9), 1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C
		Sulphate as SO ₄	IS: 3025 (Part-24), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500E	1 mg/l to 400 mg/l
		Residual Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003 APHA (22 nd edition-2012), 3500 Cl- B	0.1 mg/l to 1.0 mg/l
		Phosphate as PO ₄	IS:3025 (Part-31), 1988, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500PD	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS:3025 (Part 28) 1986, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 SO ₃ -B	2 mg/l to 200 mg/l
		Silica as SiO ₂	IS : 3025 (Part-35), 1988, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 SiO ₂ C	0.2 mg/l to 25 mg/l
		Iron as Fe	IS:3025 (Part-53) 2003, Reaffirmed 2009/ APHA (22 nd edition-2012), 3111 B/C	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52), 2003/ APHA (22 nd edition-2012), 3500 Cr B	0.05 mg/l to 1 mg/l
		Color	IS:3025 (Part 4), 1983, Reaffirmed 2006/ APHA (22 nd edition-2012), 2120 B	1.0 to 500 Hazen Unit

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 9 of 17

Validity 01.04.2018 to 31.03.2020

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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
		Phenolic compounds	IS:3025 (Part 43), 1992, Reaffirmed 2003/ APHA (22 nd edition-2012), 5530 C/D	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS -3025 (Part-34),1988, Reaffirmed-2003,	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS - 3025 (Part-34), 1988, Reaffirmed-2003	1 mg/l to 100 mg/l
		Nitrogen Nitrate as NO ₃	IS 3025, (P-34), 1988, Reaffirmed-2003	0.1 mg/l to 50.0 mg/l
		Nitrogen Nitrite as NO ₂	IS -3025 (Part-34), 1988, Reaffirmed-2003	0.01 mg/l to 20 mg/l
		Boron as B,	IS :3025 (Part 57),2005, Reaffirmed 2009/APHA (22 nd edition-2012), 4500 B	0.02 mg/l to 2 mg/l
		Anionic Surfactant	APHA (22 nd edition-2012), 5540 C	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS:3025 (Part 60), 2008/ APHA (22 nd edition-2012), 4500-F- D	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS:3025 (Part 45), 1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 Na B	0.5 mg/l to 100 mg/l
		Potassium as K	IS:3025 (Part 45), 1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 K B	0.1 mg/l to 50 mg/l
		Aluminium	IS :3025 (Part 55), 2003/ APHA (22 nd edition-2012), 3500 Al-B,	0.03 mg/l to 0.1 mg/l
		Sulphide	IS :3025 (Part 29), 1986, Reaffirmed 2003	0.5 mg/l to 2 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 10 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Total Solids	IS:3025(Part 15) 1984 Reaffirmed 2005	1 mg/l to 2000 mg/l
		Odour	IS:3025(Part 5) 1983 Reaffirmed 2006	Qualitative
4.	Packaged drinking water/Natural mineral water	pH	IS:3025 (Part-11), 1983, Reaffirmed 2002/ APHA (22 nd edition-2012), 4500- H+ B	1 to 14
		Total Dissolved Solid	IS:3025 (Part-16), 1984, Reaffirmed 2006/APHA (22 nd edition-2012), 2540 C	1.0 mg/l to 10000 mg/l
		Conductivity	IS:3025 (Part-14), 1984, Reaffirmed 2003/APHA (22 nd edition-2012),2510 B	1 µS/cm to 2 mS/cm
		Turbidity	IS:3025 (Part-10), 1984, Reaffirmed 2006/APHA (22 nd edition-2012), 2130 B	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS:3025 (Part-22), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 2310 B	1 mg/l to 500 mg/l
		Alkalinity as HCO ₃	IS :3025 (Part-23), 1986, Reaffirmed 2009/APHA (22 nd edition-2012), 2320 B	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS: 3025(Part 21), 2009/ APHA (22 nd edition-2012), 2340 C	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS:3025 (Part-40), 1991, Reaffirmed-2003/APHA (22 nd edition-2012), 3500 Ca B	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS:3025 (Part-46), 1994, Reaffirmed 2009/APHA (22 nd edition-2012), 2340B	1 mg/l to 300 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 11 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Chloride as Cl	IS: 3025 (Part-32), 1988, Reaffirmed 2007/APHA (22 nd edition-2012), 4500-Cl- B	1.0 mg/l to 1000 mg/l
		Temperature	IS: 3025 (Part-9), 1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C
		Sulphate as SO ₄	IS: 3025 (Part-24), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500E	1 mg/l to 400 mg/l
		Residual Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 3500 Cl- B	0.1 mg/l to 1.0 mg/l
		Phosphate as PO ₄	IS:3025 (Part-31), 1988, Reaffirmed 2003/APHA (22 nd edition-2012), 4500PD	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS:3025 (Part 28) 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500 SO ₃ -B	2 mg/l to 200mg/l
		Silica as SiO ₂	IS : 3025 (Part-35), 1988, Reaffirmed 2003/APHA (22 nd edition-2012), 4500 SiO ₂ C	0.2 mg/l to 25 mg/l
		Iron as Fe	IS:3025 (Part-53) 2003, Reaffirmed 2009/APHA (22 nd edition-2012), 3111 B/C	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52) ,2003 /APHA (22 nd edition-2012), 3500 Cr B	0.05 mg/l to 1 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 12 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Color	IS:3025 (Part 4),1983, Reaffirmed 2006/ APHA (22 nd edition-2012), 2120 B	1.0 to 500 Hazen Unit
		Phenolic compounds	IS:3025 (Part 43),1992, Reaffirmed 2003/ APHA (22 nd edition-2012), 5530 C/D	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS -3025 (Part-34),1988, Reaffirmed-2003,	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS - 3025 (Part-34), 1988, Reaffirmed-2003	1 mg/l to 100 mg/l
		Nitrogen Nitrate as NO ₃	IS 3025, (P-34), 1988, Reaffirmed-2003	0.1 mg/l to 50.0 mg/l
		Nitrogen Nitrite as NO ₂	IS -3025 (Part-34), 1988, Reaffirmed-2003	0.01 mg/l to 20 mg/l
		Borate	Annex H IS 13428-2005	1.0 mg/l to 10 mg/l
		Anionic Surfactant	APHA (22 nd edition-2012), 5540 C	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS:3025 (Part 60),2008/ APHA (22 nd edition-2012), 4500-F- D	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS:3025 (Part 45),1993, Reaffirmed 2003 / APHA (22 nd edition-2012), 3500 Na B	0.5 mg/l to 100 mg/l
		Potassium as K	IS:3025 (Part 45),1993, Reaffirmed 2003/ APHA (22 nd edition-2012), 3500 K B	0.1 mg/l to 50 mg/l
		Aluminium	IS :3025 (Part 55),2003 / APHA (22 nd edition-2012), 3500 Al-B,	0.03 mg/l to 0.1 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 13 of 17

Validity 01.04.2018 to 31.03.2020

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
		Sulphide	IS :3025 (Part 29),1986, Reaffirmed 2003	0.5 mg/l to 2 mg/l
		Total Solids	IS:3025(Part 15) 1984 Reaffirmed 2005	1 mg/l to 2000 mg/l
		Odour	IS:3025(Part 5) 1983 Reaffirmed 2006	Qualitative
		Manganese as Mn	IS 3025 (P-59) 2006	0.1 mg/l to 0.5 mg/l
		Mercury	IS 3025 (P-48) 1994 Reaffirmed 2003	0.02 mg/l to 1.0 mg/l
5.	Water for Construction	pH	IS:3025 (Part-11),1983, Reaffirmed 2002/ APHA (22 nd edition-2012), 4500-H+ B	1 to 14
		Total Suspended Solid	IS:3025 (Part-17),1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2540 D	1 mg/l to 1000 mg/l
		Acidity	IS:3025 (Part-22),1986, Reaffirmed 2003/APHA (22 nd edition-2012), 2310 B	0.1 ml to 50 ml
		Alkalinity	IS :3025 (Part-23),1986, Reaffirmed 2009/APHA (22 nd edition-2012), 2320 B	0.1 ml to 100 ml
		Total Hardness as CaCO ₃	IS: 3025(Part 21),2009/ APHA (22 nd edition-2012), 2340 C	0.5 mg/l to 1000 mg/l
		Chloride as Cl	IS: 3025 (Part-32),1988, Reaffirmed 2007/APHA (22 nd edition-2012), 4500-Cl- B	1.0 mg/l to 1000 mg/l
		Temperature	IS: 3025 (Part-9),1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 14 of 17

Validity 01.04.2018 to 31.03.2020

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
		Sulphate as SO ₄	IS: 3025 (Part-24), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500E	1 mg/l to 400 mg/l
		Residual Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 3500 Cl- B	0.1 mg/l to 1.0 mg/l
		Total Solids	IS:3025 (Part 15) 1984 Reaffirmed 2005	1 mg/l to 2000 mg/l
		Fixed solids(Inorganic Solid)	IS:3025 (Part 18) 1984 Reaffirmed 2005	5 mg/l to 4000 mg/l
		Volatile solids (Organic Solid)	IS:3025 (Part 18) 1984 Reaffirmed 2005	1 mg/l to 1000 mg/l
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water	pH	IS:3025 (Part-2), 1983, Reaffirmed 2002/APHA (22 nd edition-2012), 4500-H+ B	0.1 to 14
		Total Suspended Solid	IS:3025 (Part-17), 1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2540 D	1 mg/l to 1000 mg/l
		Temperature	IS: 3025 (Part-9), 1984, Reaffirmed 2002/APHA (22 nd edition-2012), 2550 B	Ambient to 60° C
		Residual free Chlorine	IS:3025 (Part-26), 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 3500 Cl- B	0.2 mg/l to 5.0 mg/l
		Color	IS:3025 (Part 4), 1983, Reaffirmed 2006/APHA (22 nd edition-2012), 2120 B	5.0 to 100 Hazen Unit

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Page 15 of 17

Validity 01.04.2018 to 31.03.2020

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
		Ammonical Nitrogen as NH ₃	IS -3025 (Part-34),1988, Reaffirmed-2003,	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS - 3025 (Part-34), 1988, Reaffirmed-2003	1 mg/l to 100 mg/l
		Dissolved Oxygen	IS:3025 (Part 38),1989, Reaffirmed 2003/ APHA (22 nd edition-2012), 4500 O B	1.0 mg/l to 12.0 mg/l
		BOD (3 days, 27°C)	IS 3025, (P-44) 1993, Reaffirmed-2003, 3 Day	1 mg/l to 50000 mg/l
		COD	IS:3025 (Part 58),2006 /APHA (22 nd edition-2012), 5220 B	1 mg/l to 100000 mg/l
		Oil & grease	IS:3025 (Part 39),1991, Reaffirmed 2003/APHA (22 nd edition-2012), 5520B	4 mg/l to 500 mg/l
		Sulphide	IS :3025 (Part 29),1986, Reaffirmed 2003	Qualitative
		Total Solids	IS:3025 (Part 15) 1984 Reaffirmed 2005	5 mg/l to 2000 mg/l
		Sodium as Na	IS:3025 (Part 45),1993, Reaffirmed 2003/APHA (22 nd edition-2012), 3500 Na B	0.5 mg/l to 100 mg/l
		Potassium as K	IS:3025 (Part 45),1993, Reaffirmed 2003/APHA (22 nd edition-2012), 3500 K B	0.1 mg/l to 50 mg/l
		Bromide	APHA (22 nd edition-2012), IS 3025 (Part-30) 1988, Reff 2003	0.1 mg/l to 2.0 mg/l
		Fixed solids(Inorganic Solid)	IS:3025 (Part 18) 1984 Reaffirmed 2005	5 mg/l to 4000 mg/l

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Certificate Number TC-7113 (in lieu of T-2776 & T-2778)

Page 16 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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		Volatile solids(Organic Solid)	IS:3025(Part 18) 1984 Reaffirmed 2005	1 mg/l to 1000mg/l
		Phosphate as PO ₄	IS:3025 (Part-31),1988, Reaffirmed 2003/APHA (22 nd edition-2012), 4500PD	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS:3025 (Part 28) 1986, Reaffirmed 2003/APHA (22 nd edition-2012), 4500 SO ₃ -B	2 mg/l to 200mg/l
		Silica as SiO ₂	IS : 3025 (Part-35),1988, Reaffirmed 2003/APHA (22 nd edition-2012), 4500 SiO ₂ C	0.2 mg/l to 25 mg/l

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.

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Page 17 of 17

Validity 01.04.2018 to 31.03.2020

Last Amended on --

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RADIOLOGICAL TESTING

I.	WATER			
1.	Packaged Drinking Water, Drinking water, Packaged Natural Mineral Water, Waste Water (CPCB), Water for Processed Food Industries & General Waters	Alpha Radionuclide measurements	IS: 14194 (P-2)/AERB	0.0042Bq/L to 1000Bq/L
		Beta Radionuclide measurements	IS:14194 (P-1)/AERB	0.0665Bq/L to 3000 Bq/L

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