

Laboratory Centre for Food Research and Analysis, NIFTEM, Plot No. 97, Sector-56, HSIIDC Industrial Estate, Kundli, Sonipat, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 1 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk and Dairy Products (Liquid Milk/ Milk Powder/ Cheese / Paneer)	Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g ≥ 1 cfu/ mL Present/Absent / g/mL
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g ≥ 1 cfu/mL Present/Absent / g/mL
		Salmonella spp.	IS 5887 (Part 3)	Absent/Present per 25 g or 25 mL
		Coliform	IS 5401 (Part 1)	≥ 10 cfu/g ≥ 1 cfu/mL
		Yeast & Mould	IS 5403	≥ 10 cfu/g ≥ 1 cfu/mL
		Total Plate Count	IS 5402	≥ 10 cfu/g ≥ 1 cfu/mL
2.	Poultry Meat (Raw and Processed Chicken, Broiler)	Aerobic Plate count	IS 5402	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3)	Absent/ present per 25g
		Yeast & Molds	IS 5403	≥ 10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g Present/Absent/g
		Coliform count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
3.	Egg & Egg Products	Aerobic Plate count	IS 5402	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3)	Absent/ present per 25g
		Yeast & Molds	IS 5403	≥ 10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g Present/Absent/g
		Coliform count	IS 5401 (Part 1)	≥ 10 cfu/g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 2 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
4.	Fruit and fruit products, Vegetable & vegetable products (including Jam, Jelly, Vegetable Juices, Sauces & Concentrates)	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g ≥ 1 cfu/mL Present/Absent/g/mL
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g ≥ 1 cfu/mL Present/Absent/g/mL
		Salmonella spp.	IS 5887 (Part 3)	Absent/ Present per 25g or 25ml
5.	Herbs, Spices & Condiments	Salmonella spp.	IS 5887 (Part 3)	Absent/ Present per 25g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
6.	Meat and Meat Product	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g Present/Absent/g
		Salmonella spp.	IS 5887 (Part 3)	Absent/ present per 25g
7.	Fish and Fishery Product	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
		Staphylococcus aureus	IS 5887 (Part 2)	≥ 10 cfu/g Present/Absent/g
		Salmonella spp.	IS 5887 (Part 3)	Absent/ present per 25g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 3 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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8.	Bakery & Confectionary	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
9.	Snacks and Instant Mixes	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1)	≥ 10 cfu/g Present/Absent/g
10.	Tea	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥ 10 cfu/g
II.	WATER			
1.	Drinking Water	Standard Plate Count	IS 1622	≥ 1 cfu /mL
		Total Coliform	IS 1622	≥ 2 MPN / 100mL Present/Absent / 100 mL
		E.coli	IS 1622	≥ 2 MPN / 100mL Present/Absent / 100 mL

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 4 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

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CHEMICAL TESTING

I.	FOODS & AGRICULTURAL PRODUCTS			
1.	Cereal and Cereal Products Food Grain/Cereal {Wheat atta, Rice (Paddy, Husked and Milled Rice), Barley, Maida, Papad, Suji / Rava, Millet, Rye, Oats, Sorghum in Form of Grains, Milled Grains and Flour, Corn Flakes, Macaroni, Spaghetti, Vermicelli and Noodles Pulses (Masur, Moong, Channa, Urd, Arhar – Whole / Split)}	Moisture	IS 4333 (Part 2) FSSAI Lab Manual 2016 for cereal & cereal product IS 1155 IS 1156 IS 1009 IS 1010 IS 1158 IS 2639 IS 1485	1 % to 25 %
		Foreign matter, Other edible grains, Weevilled grains & Damaged grains	IS 4333 (Part 1)	0.1 % to 20%
		Total ash	IS 1155 IS 1156 IS 1009 IS 1010 IS 1158 IS 2639 IS 1485	0.1 % to 25 %
		Total fat	AOAC (21 st Edition) 922.06 (Chapter 32) IS 4684 IS 2639	1 % to 50 %
		Protein	IS 7219	0.1 % to 50 %
		Gluten	IS 1155	2 % to 20 %
			IS 1009	
			IS 1010	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 5 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

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		Acid insoluble ash	IS 1155 IS 1009 IS 1010 IS 1158 IS 2639 IS 1485	0.03 % to 5 %
		Alcoholic Acidity	IS 1155 IS 1009 IS 1010 IS 1158	0.01 % to 20 %
		Saturated fats (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		MUFA (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		PUFA (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		Trans fat (Elaidic acid, Linolelaidic acid) (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 30 %
2.	Spices and Condiments Chillies, Cloves or Laung, Coriander or Dhania, Cumin-SafedZeera, Fennel-Saunf Fenugreek Methi Mustard – Rai, Sarson (Whole, Seeds, Powder)	Moisture	IS 1797 FSSAI Lab Manual 2016 for Spices & Condiments	0.5 % to 25 %
		Total ash	IS 1797 FSSAI Lab Manual 2016 for Spices & Condiments	0.1 % to 15 %
		Acid insoluble ash	IS 1797 FSSAI Lab Manual 2016 for Spices & Condiments	0.05 % to 5 %
		Volatile oil content	IS 1797 FSSAI Lab Manual 2016 for Spices & Condiments	0.5 % to 25 %
		Extraneous matter	IS 1797	0.5 % to 20 %
		Nonvolatile ether extract	IS 1797 FSSAI Lab Manual 2016	5 % to 50 %

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 6 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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			for Spices & Condiments	
		Cold water soluble extract	IS 1797 FSSAI Lab Manual 2016 for Spices & Condiments	2 % to 50 %
		Unripe and marked fruits	IS 2322	0.5 % to 20 %
		Split fruit & fragments	IS 2322	0.5 % to 20 %
		Broken fruits		
		Damaged, Discoloured & weevilled fruits	IS 1797	0.5 % to 20 %
		Shriveled & immature fruits	IS 1797	0.5 % to 20 %
		Tendrils, Mother cloves(for Cloves)	IS 4404	0.2 % to 20 %
		Khokar cloves(for Cloves)	IS 4404	0.1 % to 20 %
		Headless cloves(for Cloves)	IS 4404	0.2 % to 20 %
		Shrivelled/immature fruits (for coriander)	IS 1797	0.5 % to 20 %
		Fruits of other variety of coriander (for coriander)	IS 1797	0.1 % to 20 %
		Damaged/discoloured fruits (for coriander)	IS 1797	0.5 % to 20 %
		Edible seeds other than fennel (for fennel/saunf)	IS 1797	0.1 % to 20 %
		Edible seeds other than Fenugreek (fenugreek)	IS 1797	0.5 % to 20 %
3.	Milk and Milk Products Liquid Milk (Raw and Pasteurized) Condensed Milk / Dry Milk Powder (Milk Powder, Skim Milk Powder,	Total milk solids & total solids	IS 11622 FSSAI Lab Manual 2016 for Milk & Milk Products	1 % to 99 %
			IS 12333	
			IS 16072	
		Titratable acidity as lactic acid	IS 1166 IS 1479 (Part 1) IS 1165	0.1 % to 10 %

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 7 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

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	Partly Skimmed Milk Powder, Infant Milk Substitute)	pH	IS 4238	2 to 12
		Total fat	IS 1479 (Part 2) FSSAI Lab Manual 2016 for Milk & Milk Products IS 11762 IS 11721	0.2 % to 90 %
		Total ash	IS 1479 (Part 2) FSSAI Lab Manual 2016 for Milk & Milk Products IS 1165	0.1 % to 20 %
		Crude Protein	IS 1479 (Part 2) FSSAI Lab Manual 2016 for Milk & Milk Products IS 7219	0.1 % to 95 %
		Solids-not-fat (SNF)	IS 10083	1 % to 20 %
		Moisture	IS 16072 FSSAI Lab Manual 2016 for Milk & Milk Products	0.1 % to 20 %
		Cane Sugar	FSSAI Lab Manual 2016 for Milk and Milk Products	Qualitative
		Starch		Qualitative
		Urea		Qualitative
		Ammonium compound		Qualitative
	Sodium chloride	Qualitative		
	Nitrates(pond water)	Qualitative		
	Neutralizers (as Rosalic acid)		Qualitative	
4.	Milk and Milk Products Ice Cream / Frozen Desserts / Kulfi, Chocolate Ice Cream or Softy Ice Cream, Milk Lolly)	Total Solids	IS 2802 FSSAI Lab Manual 2016 for Milk & Milk Products	1 % to 50 %
		Weight in gram	IS 2802	5.0 gm
		Acidity as lactic acid	IS 2802	0.1 % to 5 %
		Protein	IS 7219	0.1 % to 95 %
		Fat	IS 1479 (Part 2)	1 % to 75 %

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 8 of 14

Validity 27.01.2019 to 26.01.2021

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			FSSAI Lab Manual 2016 for Milk & Milk Products	
5.	Milk and Milk Products Cheese (Includes Natural Cheese and Processed Cheese) & Paneer	Moisture	IS 2785 IS 10484	0.1 % to 75 %
		Milk Fat	IS 1479 (Part 2) IS 10484	0.5 % to 80 %
		Titratable Acidity (as lactic acid)	IS 10484	0.1 % to 5.0 %
		Crude Protein	IS 7219	0.1 % to 50 %
6.	Oils and Fats (Vanaspati, Blended Vegetable Oils, Mustard oil, Sun Flower Oil	Insoluble impurities	IS 548 (Part 1)	0.05 % to 5 %
		Melting Point (open capillary method)	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats and Fats	30 °C to 200 °C
		Acid Value (FFA)	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	0.10 to 10
		Iodine Value	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	5 to 250
		Saponification Value	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	10 to 250
		Peroxide Value	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	0.1 meq/kg to 50 meq/kg
		Unsaponifiable Value	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	0.1 % to 10 %
		Moisture and volatile matter	IS 548 (Part 1) FSSAI Lab Manual 2016 for Oil and Fats	0.05 % to 2 %
		Argemone oil	IS 548 (Part 2) FSSAI Lab Manual 2016 for Oil and Fats	Qualitative

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 9 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

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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
		Ground nut oil test (Bellier turbidity test)	IS 548 (Part 2) FSSAI Lab Manual 2016 for Oil and Fats	Qualitative
		Cotton seed oil test	IS 548 (Part 2)	Qualitative
		Sesame seed oil test	IS 548 (Part 2)	Qualitative
		Total Fat (fatty acid profiling)	AOAC-922.06 (Chapter 32) 21 st Edition 2019	0.5 % to 50 %
		Saturated fats (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		MUFA (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		PUFA (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 80 %
		Trans fat (Elaidic acid, Linolelaidic acid) (fatty acid profiling)	AOAC 996.06 (By GC) 21 st Edition 2019	0.1 % to 30 %
7.	Malt and Malt Based Foods	Moisture	IS 1806 (Appendix A)	2 % to 10 %
		Total Protein	IS 7219	0.1 % to 20 %
		Fat	AOAC-922.06 (Chapter 32) 21 st Edition 2019	0.5 % to 50 %
		Total Ash	IS 1155	0.1 % to 10 %
		Acid insoluble ash	IS 1155	0.05 % to 5 %
		Test for starch	IS 1806 (Appendix B)	Qualitative
8.	Fruit & Vegetable Products (Fruit Juice/ Beverages, Squash, Cordial, crush, Pickle, jam)	Protein	IS 7219 FSSAI Lab Manual for Food & Vegetables	0.1 % to 90 %
		Salt (NaCl)	IS 2860 FSSAI Lab Manual for Food & Vegetables	0.1 % to 10 %
		Moisture	IS 4625 FSSAI Lab Manual for food & Vegetables (Annexure A)	1 g/100g to 30 g/100g
		Peroxidase test	IS 4625 FSSAI Lab Manual for food	Qualitative (Positive/Negative)

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 10 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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			& vegetables (Annexure C)	
		Total ash	IS 4626 FSSAI Lab Manual for Food & Vegetables	(0.1 g to 20 g) / 100 g
		Acid insoluble ash	IS 4626 FSSAI Lab Manual for Food & Vegetables	(0.05 g to 90 g) / 100 g
		Total Soluble solids	IS 3882 FSSAI Lab Manual for Food and Vegetables (Annexure B)	10 % to 40 %
		Specific gravity	IS 2860 FSSAI Lab Manual for Food & Vegetables	1 g/cm ³ to 2 g/cm ³
9.	Sugar, Honey & their Products (Honey)	Total Reducing Sugar	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure C)	(50 g to 85 g) / 100 g
		Optical density at 660nm	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure H)	0.001 to 0.800
		Sucrose	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure C)	(0.5 g to 85 g) / 100 g
		Moisture	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure B)	(0.05 g to 50 g) / 100 g
		Ash	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure D)	(0.005 g to 5g) / 100 g
		Specific gravity at 27 °C	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure A)	0.85 g/cm ³ to 1.50 g/cm ³

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 11 of 14

Validity 27.01.2019 to 26.01.2021

Last Amended on --

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		Acidity (as formic acid)	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure E)	(0.01 g to 0.5 g) / 100 g (Qualitative)
		Fiehes test	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure F)	Qualitative (Negative/Positive)
		Aniline Chloride	FSSAI Lab Manual 4: 2015	Qualitative
		Fructose-glucose ratio	IS 4941 FSSAI Lab Manual-4: 2015	0.1 to 3.0
		Total Count of pollens and plant elements	IS 4941 FSSAI Lab Manual-4, 2015 (Annexure G)	1 to 50000
10.	Sugar, Honey & their Products (Sugar)	Polarization	IS 15279 FSSAI Lab Manual-4:2015	95 Z to 1000 Z
		Reducing sugar	IS 15279 FSSAI Lab Manual-4:2015	(0.1 g to 100 g) / 100 g
		Solution colour at pH7	IS 15279	5 IU to 42000 IU
		Moisture	IS 15279 FSSAI Lab Manual-4:2015	(0.01 g to 1 g) / 100 g
		Sulphated ash	IS 15279 FSSAI Lab Manual-4:2015	(0.1 g to 20 g) / 100 g
		Conductivity ash	IS 15279	(0.05 g to 20 g) / 100 g
		Colour in ICUMSA units	IS 15279	20 IU to 200 IU
		Turbidity of solution	IS 15279	1 AU to 500 AU
		Insoluble matter	IS 15279	1 mg/kg to 500 mg/kg
		pH	AOAC 943.02 (21 st Edition 2019)	1 to 14
		Inverted sugar	AOAC 968.28 (21 st Edition 2019)	(30 g to 60 g) / 100 g
		Specific gravity	AOAC 970.56 (21 st Edition 2019)	50 brix to 85 brix
11.	Meat & Meat Products	Moisture	ISO 1442, IS 5960 (Part 5) FSSAI Lab Manual for Meat & Meat Products	(0.1 g to 90 g) / 100 g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 12 of 14

Validity 27.01.2019 to 26.01.2021

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		Ash	ISO 936, IS 5960 (Part 2) FSSAI Lab Manual for Meat & Meat Products	(0.5 g to 100 g) / 100 g
		Total fat	IS 5960 (Part 3) FSSAI Lab Manual for Meat & Meat Products	(1 g to 100 g) / 100 g
		Protein	AOAC 981.10 (21 st Edition 2019) IS 5960 (Part 1), IS 7219 FSSAI Lab Manual for Meat & Meat Products	(1 g to 25 g) / 100 g
II.	RESIDUES IN FOOD PRODUCTS			
1.	Cereal and Cereal Based Products	Iron	NIFTEM /CFRA/C/ SOP/011 Issue No.: 01 Issue Date: 01-02-2019	0.5 mg/kg to 100 mg/kg
		Calcium		0.5 mg/kg to 100 mg/kg
		Magnesium		0.5 mg/kg to 100 mg/kg
		Manganese		0.1 mg/kg to 10 mg/kg
		Selenium		0.1 mg/kg to 10 mg/kg
		Zinc		0.5 mg/kg to 100 mg/kg
		Lead		0.1 mg/kg to 10 mg/kg
		Copper		0.1 mg/kg to 10 mg/kg
		Arsenic		0.1 mg/kg to 10 mg/kg
		Cadmium		0.1 mg/kg to 10 mg/kg
		Mercury		0.1 mg/kg to 10 mg/kg
		Nickel		0.1 mg/kg to 10 mg/kg
	Chromium	0.1 mg/kg to 10 mg/kg		
III.	WATER			
1.	Ground Water, Drinking Water, Packaged Natural Mineral Water,	Specific Conductance/ Electrical conductivity at 25 °C	IS 3025 (Part 14) APHA 2510: 2017 23 rd Edition	1 µmhos/cm to 2000 µmhos/cm
		pH at 25 °C	IS 3025 (Part 11)	2 to 12

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Page 13 of 14

Validity 27.01.2019 to 26.01.2021

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	Packaged Drinking Water		APHA 4500 H, B: 2017 23 rd Edition	
		Total solids at 105 °C	IS 3025 (Part 15) APHA 2540 (B): 2017 23 rd Edition	1 mg/L to 1000 mg/L
		Total dissolved solids	IS 3025 (Part 16) APHA 2540 (C): 2017 23 rd Edition	1 mg/L to 1000 mg/L
		Appearance	APHA 2110: 2017 23 rd Edition	Qualitative
		Color	IS 3025 (Part 4) APHA 2120: 2017 23 rd Edition	1 Hazen to 70 Hazen
		Turbidity	APHA 2130B: 2012 22 nd Edition APHA 2130: 2017 23 rd Edition	0.1 NTU to 4000 NTU
		Nitrate (as NO ₃)	IS 3025 (Part 34) APHA 4500 B: 2017 23 rd Edition	2 mg/L to 500 mg/L
		Nitrite (as NO ₂)	IS 3025 (Part 34) APHA 4500 B: 2017 23 rd Edition	0.05 mg/L to 1.0 mg/L
		Fluoride (as F ⁻)	IS 3025 (Part 60) APHA 4500 F-D, C: 2017 23 rd Edition	0.10 mg/L to 1.0 mg/L
		Chloride (as Cl ⁻)	IS 3025 (Part 32) APHA 4500 Cl B/C: 2017 23 rd Edition	0.5 mg/L to 1000 mg/L
		Sulphate (as SO ₄ ²⁻)	IS 3025 (Part 24) APHA 4500 SO ₄ , E: 2017 23 rd Edition	1.0 mg/L to 90 mg/L
		Alkalinity (Phenolphthalein &	IS 3025(Part 23) APHA 3320B: 2017	0.5 mg/L to 500 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8300

Page 14 of 14

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Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl Orange/Total)	23 rd Edition	
		Total hardness as CaCO ₃	IS 3025 (Part 21) APHA 2340 C: 2017 23 rd Edition	0.2 mg/L to 500 mg/L
		Residual Free Chlorine	IS 3025 (Part 26) APHA 4500 Cl, B: 2017 23 rd Edition	0.05 mg/L to 10 mg/L
		Ammonia as NH ₃	APHA 4500: 23 rd Edition NH ₃ , C and D: 2017 IS 3025 (Part 34)	5 mg/L to 200 mg/L

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