

Laboratory Anushka Food and Water Testing Laboratories, Atharva Row Houses, Row House No. 1, Renuka Nagar, Lane No. 01, Survey No. 112/1, Warje, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 1 of 8

Validity 06.10.2017 to 05.10.2019

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
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BIOLOGICAL TESTING

I. FOOD AND AGRICULTURAL PRODUCTS				
1.	Meat & Meat Products, Snacks & Instant Mixes, Milk and Milk Products, Herbs & Condiments, Jams, Juices, Sauces & Concentrates, Vegetable & Vegetable Products, Carbonated Beverages, Ready to Serve including Fruit Beverages	Total Plate Count	IS 5402: 2012	≥ 1 cfu/ml ≥ 10 cfu/g
		E.Coli	IS 5887 (Part I): 1976 (RA 2005)	Quantitative (Present or Absent /25 g/ 25 ml)
		Coliforms	IS 5401 (Part 1): 2012	≥ 1 cfu/ml ≥ 10cfu/g
		Staphylococcus spp.	IS 5887 (Part II): 1976 (RA 2009)	Quantitative (Present or Absent /25 g/ 25 ml)
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2009)	Quantitative (Present or Absent /25 g/ 25 ml)
II. Water				
1.	Drinking Water , Packaged Drinking Water, Swimming Pool Water	E.coli	IS 1622:1981(RA 2009) IS 15185: 2016	<2- 1600 MPN/100 ml Quantitative (Present/Absent / 250 ml)
		Coliforms	IS 1622:1981(RA 2009) IS 5401(Part 1): 2007	<2- 1600 MPN/100 ml Quantitative (Present/Absent / 250 ml)
		Salmonella spp.	IS 5887 (Part 3): 1999 (RA 2009)	Quantitative (Present/Absent / 250 ml)
		Aerobic Microbial Count at 37 °C	IS 5402: 2012	≥1 cfu /ml

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Certificate Number **TC-6364**

Page 2 of 8

Validity **06.10.2017 to 05.10.2019**

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CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Bakery & Confectionary Product			
a.	Toast, Khari & Biscuits	Ash	IS 12711: 1989 (RA 2010)	0.5 g/100g to 6.0 g/100g
		Moisture	IS 12711: 1989 (RA 2010)	0.3 g/100g to 10 g/100g
		Fat	IS 12711: 1989 (RA 2010)	5 g/100g to 40 g/100g
		Protein	IS 7219: 1973 (RA 2010)	3.0 to 22.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
b.	Bread & Cake	Ash	IS 12711:1989 (RA 2010)	0.5 g/100g to 9.0 g/100g
		Moisture	IS 12711:1989 (RA 2010)	5.0 g/100g to 35.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	4.0 g/100g to 20.0 g/100g
		Fat	IS 12711:1989 (RA 2010)	2.0 g/100g to 40.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
c.	Chocolate	Ash	IS 12711:1989 (RA 2010)	0.2 g/100g to 4.0 g/100g
		Moisture	IS 12711:1989 (RA 2010)	0.5 g/100g to 15 g/100g
		Fat	IS 12711:1989 (RA 2010)	0.1 g/100g to 45.0 g/100g
		Total Sugar	IS 6287:1985 (RA 2010)	20.0 g/100g to 95.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	4.0 g/100g to 20.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 3 of 8

Validity 06.10.2017 to 05.10.2019

Last Amended on --

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2.	Cereals, Pulses & Cereal Products			
a.	Food Grains, Soybeans, Pulses Wheat Flour, Rawa, Atta & Besan	Ash	IS 1009:1979 (RA 2010)	0.1 g/100g to 10.0 g/100g
		Moisture	IS 1009:1979 (RA 2010)	2 g/100g to 20.0 g/100g
		Fat	IS 12711:1989 (RA 2010)	0.5 g/100g to 22.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	6.0 g/100g to 45.0 g/100g
		Ash insoluble in dil HCl	FSSAI Lab Manual Cereal & cereal products 2016, Procedure no-8.3	0.05 g/100g to 0.45 g/100g
		Alcoholic Acidity expressed as H ₂ SO ₄	FSSAI Lab Manual Cereal & cereal products 2016, Procedure no-8.5	0.036 g/100g to 0.16 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
b.	Instant Mixes and Snacks, Farsan & Shev Chips	Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
		Ash	IS 2234:1989 (RA 2010)	0.5 g/100g to 6.0 g/100g
		Moisture	IS 2234:1989 (RA 2010)	1.0 to 10.0 g/100g
		Fat	IS 12711:1989 (RA 2010)	2.0 g/100g to 60.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	3.0 to 45.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
3.	Milk & Dairy Products			
a.	Milk & Ice-Creams	Ash	IS 1479 (Part 2): 1961 (RA 2013)	0.5 g/100g to 3.0 g/100g
		Moisture	IS 16072: 2012	15.0 g/100g to 95.0 g/100g
		Fat / Milk Fat	IS 1224 (P I): 1977 (RA 2013) / FSSAI Lab Manual of Milk & Milk products , 2016 Procedure no. - 1.3.4 & 7.4	0.1 g/100g to 20.0 g/100g
		SNF	IS 10083: 1982 (RA 2013)	8.5 g/100g to 9.0 g/100g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 4 of 8

Validity 06.10.2017 to 05.10.2019

Last Amended on --

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		Protein	IS 7219: 1973 (RA 2010)	3.0 g/100g to 6.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
b.	Paneer, Chakka, Shrikhand, Khoa & Curd	Ash	IS 1479 (Part II): 1961 (RA 2013)	0.2 g/100g to 5.0 g/100g
		Moisture	IS 16072: 2012 / IS 10484:1999	10.0 g/100g to 65.0 g/100g
		Fat / Milk Fat	IS 12711: 1989 (RA 2010)/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure 1.3.4.2 & 1.3.4.3	3.0 g/100g to 50.0 g/100g
		Protein	IS 7219: 1973 (RA 2010)	3.0 g/100g to 35.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
c.	Milk Powder & Whey products	Ash	IS 1479 (Part II): 1961 (RA 2013)/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure 16.5	0.5 g/100g to 20.0 g/100g
		Moisture	IS:16072: 2012 / FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure 10.2 & 16.2	1.0 g/100g to 12.0 g/100g
		Fat /Milk Fat	IS 16072: 2012/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure 10.3 &16.3	0.1 g/100g to 27.0 g/100g
		Protein	IS 7219: 1973 (RA 2010)	6.0 g/100g to 95.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 5 of 8

Validity 06.10.2017 to 05.10.2019

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d.	Butter & Ghee	Moisture	IS 3508:1966 (RA 1997)	0.003 g/100g to 15.0 g/100g
		Reichert Value (RM Value)	IS 3508:1966 (RA 1997)	20.0 to 30.0
		Baudouin Test	IS 3508:1966 (RA 1997)	Qualitative (Present / Absent)
e.	Milk	Adulteration Test		
		Added Urea	IS 1479 (Part I): 1960 (RA 2013)/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no.1.2.4	Qualitative (Present / Absent)
		Cane Sugar	IS 1479 (Part I): 1960 (RA 2013)/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no. 1.2.1	Qualitative (Present / Absent)
		Starch	IS 1479 (Part I): 1960 (RA 2013)/ FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no.1.2.2	Qualitative (Present / Absent)
		Hydrogen Peroxide	FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no.1.2.18	Qualitative (Present / Absent)
		Neutralizers in Milk	FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no-1.2.11	Qualitative (Present / Absent)
	Salt	FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no-1.2.8	Qualitative (Present / Absent)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 6 of 8

Validity 06.10.2017 to 05.10.2019

Last Amended on --

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		Nitrates (Pond water)	FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no-1.2.10	Qualitative (Present / Absent)
		Ammonium Compounds	FSSAI Lab Manual of Milk & Milk Products, 2016 Procedure no-1.2.5	Qualitative (Present / Absent)
4.	Vegetables & Vegetable Products			
a.	Dehydrated Vegetables, Soup Powders & Vegetable Puree & Pastes, Vegetable Sauces & Tomato Ketchup	Ash	IS 12711:1989 (RA 2010)/ FSSAI Lab Manual of Fruit & Vegetable Products, 2016 Procedure No-11.3	2.0 g/100g to 10.0 g/100g
		Moisture	FSSAI Lab Manual of Fruit & Vegetable products, 2016 Procedure no-4.1 & 20.1	4.0 g/100g to 10.0 g/100g
		Fat	IS 12711:1989 RA 2010	0.2 g/100g to 6.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	0.1 g/100g to 20.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, Date-10/10/2017	By Calculation
5.	Jams, Juices, Sauces & Concentrates			
a.	Ready-To-Serve Beverages, Fruit Syrups, Fruit Sarbat, Jam Jelly	Ash	FSSAI Lab Manual of Fruit & Vegetable Products, 2016 Procedure No-11.3	1.0 g/100g to 5.0 g/100g
		Protein	IS 7219-1973 (RA 2010)	0 to 10.0 g/100 g
6.	Herbs, Spices & Condiments			
a.	Red Chili Powder, Turmeric Powder, Coriander Powder, Masale	Moisture	IS 1797-1985 (RA 2009) / FSSAI Lab Manual of Spices & Condiments Products, 2016 Procedure no-3.0	5.0 g/100g to 40.0 g/100g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 7 of 8

Validity 06.10.2017 to 05.10.2019

Last Amended on --

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		Ash	IS 1797:1985 (RA 2009) / FSSAI Lab Manual of Spices & Condiments products, 2016 Procedure no-4.0	5.0 g/100g to 20.0 g/100g
		Fat	IS 1797:1985 (RA 2009)	8.0 g/100g to 40.0 g/100g
		Protein	IS 7219:1973 (RA 2010)	2.0 g/100g to 50.0 g/100g
		Ash Insoluble in dil HCl	IS 1797:1985 (RA 2009) FSSAI Lab Manual of Spices & Condiments products, 2016 Procedure no-5.0	0.05 g/100g to 3.0 g/100g
		Non Volatile Ether Extract	IS 1797:1985 (RA 2009) / FSSAI Lab Manual of Spices & Condiments products, 2016 Procedure no-9.0	8.0 g/100g to 45.0 g/100g
		Carbohydrates	IS 1656: 2007 (RA 2012)	By Difference
		Energy	AFWTL/SOP/C-06 Issue-01, date-10/10/2017	By Calculation
II.	WATER			
1.	Drinking Water	Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	0.01 NTU to 199 NTU
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative (Agreeable/Disagreeable)
		pH	IS 3025 (Part 11): 1983 (RA 2012)	1 to 13
		Conductivity	APHA 22 nd Ed 2510B	2 µs/cm to 20,000 µs/cm
		Total dissolved Solids	IS 3025 (Part 16): 1984 (RA 2012)	2 mg/l to 5000 mg/l
		Total Alkalinity (as CaCO ₃)	APHA 22 nd Ed 2320-B Titrimetric	1 mg/l to 700 mg/l

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6364

Page 8 of 8

Validity 06.10.2017 to 05.10.2019

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		Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009	1 mg/l to 800 mg/l
		Calcium Hardness (as CaCO ₃)	APHA 22 nd Ed.3500-Ca-B	1 mg/l to 750 mg/l
		Magnesium Hardness	APHA 22 nd Ed.3500-Mg-B	0.2 mg/l to 50 mg/l
		Chlorides	IS 3025 (Part 32): 1988 (RA 2009)	0.2 mg/l to 500 mg/l
2.	Packaged Drinking Water	pH	IS 3025 (Part 11): 1983 (RA 2012)	1 to 13
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative (Agreeable/Disagreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	0.01 NTU to 199 NTU
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2012)	2 mg/l to 5000 mg/l
		Calcium (as Ca)	APHA 22 nd Ed.3500-Ca-B	0.5 mg/l to 150 mg/l
		Magnesium (as mg)	APHA 22 nd Ed.3500-Mg-B/ IS 3025 (Part 46)	0.2 mg/l to 50 mg/l
		Chl/ides (as Cl)	IS 3025 (Part 32): 1988 (RA 2009)	0.2 mg/l to 500 mg/l
		Alkalinity (as HCO ₃)	APHA 22 nd Ed 2320-B Titrimetric	1 mg/l to 700 mg/l