Laboratory Regional Analytical Laboratory, Malaparamba, Kozhikode, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5566 Page 1 of 3

Validity 08.05.2017 to 07.05.2019 Last Amended on --

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

I	WATER			
1.	Packaged	pH value	IS: 3025 (Part 2)	4.0 to 10.0
ļ	Drinking Water	Alkalinity as CaCO₃	IS: 3025 (Part 23)	4.0 mg/l to 500 mg/l
		Chloride	IS: 3025 (Part 32) (Argentometric method)	2.0 mg/l to 500 mg/l
<u> </u>		Total Dissolved Solids	IS: 3025 (Part 16)	10 mg/l to 1000 mg/l
		Calcium (as Ca)	APHA 21 st Edition Chapter 3-66, 3500 Ca B (EDTA Method)	7.0 mg/l to 100mg/l
		Magnesium (as Mg)	APHA 21 st Edition Chapter 3-84, 3500 Mg B	0.5 mg/l to 100mg/l
II	FOOD AND AGRICU	JLTURE PRODUCTS		
1.	Tea	Total Ash	IS:13854	0.5 % to 10.0%
		Water soluble Ash	IS: 13855	20.0 % to 85.0%
		Alkalinity of water soluble ash as KOH	IS: 13856	0.5 % to 20.0%
		Water extract	FSSAI Manual Lab Manual-4	10.0 % to 50.0%
		Crude Fibre	IS:10226 Part 2	5.0 % to 30.0%
		Added Colouring matter	Lab Manual -8, FSSAI Manual of Methods of Analysis of Foods (Food Additives)	Qualitative (Present/Absent)
		Acid insoluble Ash	IS: 13857	0.02 % to 4.0%
2.	Herbs, Spices and (Condiments		
a.	Chilly powder, coriander powder,	Moisture	IS: 1797	0.4 % to 20.0%
	turmeric powder	Total Ash	IS: 1797(Part-6)	0.5 % to 30.0%
		Ash Insoluble in dilute HCI	IS: 1797(Part-8)	0.05 % to 5.0%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
[Chromate Test in	IS: 3576 Annexure A	Qualitative
ļ		Turmeric		(Present/Absent)
		Non-volatile ether extract in chilly powder	IS: 1797 (Part-14)	5.0 % to 25.0%
		Crude fibre	Lab Manual-10, FSSAI Manual of Methods of Analysis of Foods (Spices and Condiments)	10.0 % to 40.0%
		Oil soluble synthetic colour in chilly powder (TLC)	Lab Manual -8, FSSAI Manual of Methods of Analysis of Foods (Food Additives)	Qualitative (Present/Absent)
		Added colouring matter	Lab Manual -8, FSSAI Manual of Methods of Analysis of Foods (Food Additives)/ RALK/QF/5041	Qualitative (Present/Absent)
3.	Edible oil and Fats			
a.	Coconut Oil, Gingelly Oi, Palmoil,	Refractive Index at 40°C and Refractive Index at 50°C for palm oil.	IS: 548 (Part 1)	1.4220 to 1.4845
	Palmoelin, Rice Bran Oil, Sunflower Oil, Refined Vegetable Oil, Vanaspathi,	Butyro-refractometer Reading at 40°C and Butyro-refractometer Reading at 50°C for palm oil	IS: 548 (Part 1)	0.1 to 90.9
	Ghee	Saponification Value	IS: 548 (Part 1)	10.0 to 270.0
<u> </u>		lodine value	IS: 548 (Part 1)	1.0 to 160.0
<u> </u>		Moisture	IS: 548 (Part 1)	0.05 % to 20.0%
		Acid value	IS: 548 (Part 1) RA 2010	0.1 to 20.0
		Polenske Value	IS: 548 (Part 1)	1.0 to 20.0
		Baudouin	IS: 548 (Part 2)	Qualitative (Positive/ Negative)
		Mineral Oil	IS: 548 (Part 2)	Qualitative (Positive/ Negative)
		Halphen's	IS: 548 (Part 2)	Qualitative (Positive/ Negative)

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		Moisture	IS: 548 (Part 1)	0.05 to 20.0%
		Reichert-Miessl value	IS: 548 (Part 1)	1.0 to 35.0
		Free Fatty Acid (as oleic acid)	IS: 548 (Part 1)	0.1 % to 10.0%
4.	Milk and Dairy Proc	lucts		
a.	Milk	Fat	FSSAI Manual of Methods of Food Analysis	0.1 % to 10%
		Total Solids/SNF	FSSAI Manual of Methods of Food Analysis	3 % to 20%
		Neutralizers (Qualitative)	FSSAI Manual of Methods	Qualitative
ļ		Ctorch (Ovalitativa)	of Food Analysis	(Present/Absent)
		Starch (Qualitative)	FSSAI Manual of Methods of Food Analysis	Qualitative (Present/Absent)
		Cane Sugar (Qualitative)	FSSAI Manual of Methods of Food Analysis	Qualitative (Present/Absent)
		Formaldehyde (Qualitative)	FSSAI Manual of Methods of Food Analysis	Qualitative (Present/Absent)
		Urea (Qualitative)	FSSAI Manual of Methods	Qualitative
		, i	of Food Analysis	(Present/Absent)
b.	Ice Cream	Fat	FSSAI Manual of Methods of Food Analysis	5 % to 50 %
		Total Solids	FSSAI Manual of Methods of Food Analysis	0.1 % to 20%
		Protein	AOAC 2 (Page No. 930.33 and 991.20)/Gerhardt Kjeldahl Instrumentation method	0.1 % to 10%