



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 1 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Acid insoluble Ash	IS 7874 (Part - I) : 2014	0.01 g/100g to 5 g/100g
2	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Acidity	AOAC 21st edition 920.43: 2019	0.01 % to 10 %
3	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Carbohydrate	IS 1656: 2012	0.1 g/100g to 50 g/100g
4	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Crude Fat	IS 7874 (Part - I) : 2014	0.5 g/100g to 70 g/100g
5	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Crude Fiber	IS 7874 (Part - I) : 2014	0 g/100g to 60 g/100g
6	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Crude Protein	IS 7874 (Part - I) : 2014	1 g/100g to 85 g/100g
7	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Energy Value	ZFL/SOP/C/001: 2016	1 kcal to 1000 kcal
8	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Moisture	IS 7874 (Part - I) : 2014	1 g/100g to 40 g/100g
9	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Salt	IS: 7874 (Part - II): 2014	0.01 % to 5 %
10	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Sugar	AOAC 21st Edition 974.06: 2019	1 g/100g to 80 g/100g
11	CHEMICAL- ANIMAL FOOD & FEEDS	Pet Foods	Total Ash	IS 7874 (Part - I) : 2014	1 g/100g to 35 g/100g
12	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee, cocoa products & premixes etc	Acid insoluble Ash	FSSAI Lab Manual : 2016	0.001 g/100g to 5 g/100g
13	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee, cocoa products & premixes etc	Moisture	FSSAI Lab Manual: 2016	1 g/100g to 15 g/100g



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Certificate Number TC-4195 Page No. : 2 / 20

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14	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Acid insoluble Ash	IS 4684 : 2015	0.01 g/100g to 5 g/100g
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Acidity of extracted fat	IS 4684 : 2015	0.1 % to 3 %
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Carbohydrate	IS 1656: 2012	1 g/100g to 60 g/100g
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Crude fibre	IS 4684 : 2015	0.1 g/100g to 20 g/100g
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Energy Value	ZFL/SOP/C/001 : 2016	50 kcal to 1000 kcal
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Fat	IS 4684 : 2015	1 g/100g to 60 g/100g
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Moisture	IS 4684 : 2015	0.1 g/100g to 20 g/100g
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Protein	IS 4684 : 2015	1 g/100g to 40 g/100g
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Almonds, Cashews, Walnuts, Groundnuts etc.	Total Ash	IS 4684 : 2015	0.1 g/100g to 20 g/100g
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Acid insoluble Ash	IS 15271 : 2013	0.01 g/100g to 2.5 g/100g



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Certificate Number TC-4195 Page No. : 3 / 20

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24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Acidity of extracted fat	IS 15271: 2013	0.01 % to 20 %
25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Carbohydrates	IS 1656: 2012	0.5 g/100g to 80 g/100g
26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Crude fiber	IS 2234: 2015	0.1 g/100g to 20 g/100g
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Energy Value	ZFL/SOP/C/001 : 2016	50 kcal to 1000 kcal
28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Fat	IS 15271: 2013	1 g/100g to 60 g/100g
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Moisture	IS 15271: 2013	0.1 g/100g to 15 g/100g
30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Peroxide value	IS 15271: 2013	0.01 meq/kg to 20 meq/kg
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Protein	IS 7219: 2015	1 g/100g to 20 g/100g
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Total Ash	IS 15271 : 2013	0.1 g/100g to 15 g/100g
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Aloo Bhujia, Farsan, Sev, Idli Mix etc	Total Sugar	IS 6287: 2015	0.1 g/100g to 30 g/100g



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Certificate Number TC-4195 Page No. : 4 / 20

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34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	carbonated, non carbonated, energy drinks	Total Solids	FSSAI Lab Manual : 2016	1 g/100g to 90 g/100g
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	carbonated, non carbonated, energy drinks	Total Soluble Solids	FSSAI Manual: 2016	1 g/100g to 90 g/100g
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	carbonated, non carbonated, energy drinks	Total Sugar	FSSAI Lab Manual : 2016	1 g/100g to 85 g/100g
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	carbonated,non carbonated, energy drinks	pH	FSSAI Lab Manual : 2016	2 to 13
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee ,cocoa products & premixes etc	Water Soluble Ash of Total Ash	FSSAI Lab Manual : 2016	5 g/100g to 60 g/100g
39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee, cocoa products & premixes etc	Aqueous extract	FSSAI Lab Manual : 2016	1 g/100g to 80 g/100g
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee, cocoa products & premixes etc	Crude Fiber	FSSAI Lab Manual : 2016	1 g/100g to 40 g/100g
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Coffee, cocoa products & premixes etc	Total Ash	FSSAI Lab Manual: 2016	0.1 g/100g to 20 g/100g
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Carbohydrates	IS 1656: 2012	0.5 g/100g to 80 g/100g



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 5 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Energy Value	ZFL/SOP/C/001: 2016	50 Kcal to 1000 Kcal
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Fat	IS 12711: 2015	0.1 g/100g to 40 g/100g
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Moisture	FSSAI Lab Manual : 2016	0.1 g/100g to 95 g/100g
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Protein	IS 7219: 2015	1 g/100g to 20 g/100g
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Total Ash	AOAC 21st edition 940.26/37.1.18: 2019	0.01 g/100g to 20 g/100g
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dehydrated Vegetable Powders, Vegetable Paste, Sauce, Pickles, Mango chutney, etc.	Ash insoluble in HCl	FSSAI Lab Manual: 2016	0.01 g/100g to 5 g/100g



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Certificate Number TC-4195 Page No. : 6 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Acid Value	IS 548 (Part 1): 2015	0.01 % to 20 %
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Baudouin Test	FSSAI Lab Manual : 2016	Qualitative
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	FFA	IS 548 (Part 1): 2015	0.01 % to 10 %
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Iodine Value	IS 548 (Part 1): 2015	1 to 200
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Melting Point	IS 548 (Part 1): 2015	20 °C to 80 °C
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Moisture & Volatile Matter	IS 548 (Part 1): 2015	0.01 g/100g to 5 g/100g
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Peroxide Value	IS 548 (Part 1): 2015	0.1 meq/Kg to 25 meq/Kg
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Saponification Value	IS 548 (Part 1): 2015	10 to 300
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Test for presence of hydrocyanic acid	FSSAI Lab Manual: 2016	Qualitative
58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Test for presence of Mineral Oil	FSSAI Lab Manual: 2016	Qualitative



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 7 / 20

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59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Test for presence of Olive residue oil in olive oil	FSSAI Lab Manual: 2016	Qualitative
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Test for presence of Rancidity	FSSAI Lab Manual: 2016	Qualitative
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Test for presence of Synthetic oil soluble colour	FSSAI Lab Manual: 2016	Qualitative
62	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oil, Ghee and Margarine	Unsaponifiable Matter	IS 548 (Part 1): 2015	0.1 g/100g to 10 g/100g
63	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Ash insoluble in HCl	IS 13846: 2013	0.01 g/100g to 5 g/100g
64	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Brix (Total soluble solids)	FSSAI Lab Manual: 2016	1 % to 99 %
65	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Moisture	FSSAI Lab Manual : 2016	0.1 g/100g to 95 g/100g
66	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Nitrogen	FSSAI Lab Manual : 2016	0.01 g/100g to 20 g/100g
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	pH	AOAC 21st edition 981.12/42.1.04: 2019	2 to 13
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Titration Acidity	FSSAI Lab Manual : 2016	0.01 g/100g to 10 g/100g



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Certificate Number TC-4195 Page No. : 8 / 20

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69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Total Ash	AOAC 21st edition 940.26/37.1.18: 2019	0.01 g/100g to 20 g/100g
70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fruit Pulp and Juices, Fruit Juices, Jam, Squashes etc.	Total Sugar	FSSAI Lab Manual: 2016	1 g/100g to 85 g/100g
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ghee	RM Value	FSSAI Lab Manual: 2016	1 to 50
72	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Acidity	IS 4941: 2014	0.1 % to 10 %
73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Moisture	IS 4941: 2014	0.1 g/100g to 30 g/100g
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Total Ash	IS 4941: 2014	0.1 g/100g to 15 g/100g
75	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Total Reducing Sugar	IS 4941: 2014	30 g/100g to 80 g/100g
76	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Acid Insoluble Ash	IS 6287: 2015	0.01 g/100g to 5 g/100g
77	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Carbohydrate	IS 1656: 2012	0.1 g/100g to 99 g/100g



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Certificate Number TC-4195 Page No. : 9 / 20

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78	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Energy Value	ZFL/SOP/C/001: 2016	50 Kcal to 600 Kcal
79	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Fat	IS 6287: 2015	0.01 g/100g to 20 g/100g
80	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Moisture	IS 6287: 2015	0.1 g/100g to 20 g/100g
81	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Protein	IS 6287: 2016	0.01 g/100g to 15 g/100g
82	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Sulphated Ash on salt free basis	FSSAI Lab Manual : 2016	0.01 g/100g to 0.5 g/100g
83	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Sulphated Ash	IS 6287: 2015	0.01 g/100g to 0.5 g/100g
84	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Total Ash	AOAC 21st edition 900.02/44.1.05 Method 1: 2019	0.1 g/100g to 20 g/100g



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 10 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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85	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Total solid content	FSSAI Lab Manual : 2016	0.1 g/100g to 99.9 g/100g
86	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Total Sugar	IS 6287: 2015	1 g/100g to 99.98 g/100g
87	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery, Sugar Confectionery, Hard Boiled Confectionery etc.	Water insoluble Ash	FSSAI Lab Manual : 2016	0.01 g/100g to 10 g/100g
88	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Acid Insoluble Ash	FSSAI Lab Manual: 2016	0.01 g/100g to 5 g/100g
89	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Carbohydrate	IS 1656: 2012	0.1 g/100g to 90 g/100g
90	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Detection of Added Urea in milk	FSSAI Lab Manual: 2016	Qualitative



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Certificate Number TC-4195 Page No. : 11 / 20

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91	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Detection of neutralizers in milk	FSSAI Lab Manual: 2018	Qualitative
92	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Detection of sodium chloride in milk	FSSAI Lab Manual: 2016	Qualitative
93	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Detection of starch in milk	FSSAI Lab Manual: 2016	Qualitative
94	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Energy Value	ZFL/SOP/C/001 : 2016	50 kcal to 1000 kcal
95	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Fat	FSSAI Lab Manual: 2016	0.1 g/100g to 100 g/100g



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 12 / 20

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96	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Protein	IS 1479 (Part 2): 2018	0.1 g/100g to 60 g/100g
97	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Salt	FSSAI Lab Manual: 2016	0.01 g/100g to 10 g/100g
98	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Solid Not Fat	IS:10083: 2018	1 g/100g to 80 g/100g
99	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Test for presence for anionic detergent	FSSAI Lab Manual: 2016	Qualitative
100	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Test for presence of formalin in milk	FSSAI Lab Manual: 2016	Qualitative



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 13 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
101	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Test for presence of skimmed milk powder	FSSAI Lab Manual: 2016	Qualitative
102	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Titratable Acidity as lactic acid	IS 3507: 2018	0.1 % to 12 %
103	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream Mixes Dahi, Cheese, Ghee etc.	Total Ash	FSSAI Lab Manual : 2016	0.1 g/100g to 15 g/100g
104	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk,Paneer, Khoa, Chakka, Shrikhand, Ice Cream, Milk Powder, Dry Ice Cream MixesDahi, Cheese, Ghee etc.	Moisture	FSSAI Lab Manual: 2016	0.1 g/100g to 98 g/100g
105	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Acid insoluble Ash	FSSAI Lab Manual : 2016	0.01 g/100g to 5 g/100g
106	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Aqueous extract	FSSAI Lab Manual : 2016	1 g/100g to 80 g/100g



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 14 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
107	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Crude Fiber	FSSAI Lab Manual : 2016	1 g/100g to 40 g/100g
108	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Moisture	FSSAI Lab Manual : 2016	1 g/100g to 15 g/100g
109	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Total Ash	FSSAI Lab Manual : 2016	0.1 g/100g to 20 g/100g
110	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea,Premixes, etc	Water Soluble Ash of Total Ash	FSSAI Lab Manual : 2016	5 g/100g to 60 g/100g
111	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Acid insoluble Ash	IS 1797: 2009	0.01 g/100g to 50 g/100g
112	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Alcohol Soluble Extract	IS 1797: 2009	0.5 % to 25 %
113	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Carbohydrate	IS 1656: 2012	1 g/100g to 70 g/100g



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 15 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
114	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Cold Water Soluble extract	IS 1797: 2009	0.1 g/100g to 10 g/100g
115	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Crude fiber	IS 1797: 2009	1 g/100g to 40 g/100g
116	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Energy Value	ZFL/SOP/C/001 : 2016	50 kcal to 1000 kcal
117	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Fat	IS 1797: 2009	1 g/100g to 40 g/100g
118	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Non volatile ether extract	IS 1797: 2009	0.1 % to 30 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 16 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
119	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Protein	IS 4684: 2015	1 g/100g to 25 g/100g
120	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilies, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Total Ash	IS 1797: 2009	0.1 g/100g to 25 g/100g
121	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric, Chilli, Cinnamon, Cumin seeds, Cardamom, Tamarind, Whole, Powder & Mix Masala etc.	Moisture	IS 1797: 2009	0.1 g/100g to 50 g/100g
122	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Moisture	IS 12711: 2015	0.1 g/100g to 25 g/100g



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 17 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
123	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Acid insoluble Ash	IS 12711: 2015	0.01 g/100g to 2.5 g/100g
124	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Acidity of extracted fat	IS 12711: 2015	0.01 % to 10 %
125	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Alcoholic acidity	IS 12711: 2015	0.1 % to 4 %
126	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Carbohydrate	IS 1656: 2012	1 g/100g to 80 g/100g



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 18 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
127	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Crude Fibre	IS 1155: 2015	0.1 g/100g to 40 g/100g
128	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Energy Value	ZFL/SOP/C/001 : 2016	50 Kcal to 1000 Kcal
129	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Fat	IS 12711: 2015	0.1 g/100g to 75 g/100g
130	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Gluten Content	IS 1155: 2015	0.1 g/100g to 20 g/100g



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 19 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
131	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	pH	AOAC 20th Edition 943.02/32.1.20, 945.42 /32.3.19 : 2016	2 to 13
132	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Protein	IS 7219: 2015	1 g/100g to 60 g/100g
133	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Flour, Wheat, Rye, Oats, Corn, Rice, Barley, Bean, Grams, Dal, Soybeans & Cereal products such as Bread , baked products, Macaroni, Noodles	Total Ash	IS 12711 : 2015	0.1 g/100g to 25 g/100g
134	CHEMICAL- WATER	Drinking Water	Residual Free chlorine	IS:3025- (Part 26): 2014	0.1 mg/l to 100 mg/l
135	CHEMICAL- WATER	Drinking Water	Calcium (as Ca)	IS 3025 (Part 40): 2014	1 mg/l to 75 mg/l
136	CHEMICAL- WATER	Drinking Water	Chlorides	IS 3025 (Part 32): 2014	0.2 mg/l to 500 mg/l
137	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11): 2017	1 to 13
138	CHEMICAL- WATER	Drinking Water	Total Alkalinity(as CaCO ₃)	IS 3025 (Part 23): 2014	1 mg/l to 700 mg/l



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZENITH QUALITY ASSESSORS PVT. LTD. (FOOD TESTING DIVISION), SURVEY NO. 82/1, DHAWDE PATIL INDUSTRIAL ESTATE, DANGAT PATIL NAGAR, PUNE, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4195 Page No. : 20 / 20

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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139	CHEMICAL- WATER	Drinking Water	Total dissolved Solids	IS 3025 (Part 16): 2017	2 mg/l to 5000 mg/l
140	CHEMICAL- WATER	Drinking Water	Total Hardness(as CaCO ₃)	IS 3025 (Part 21): 2014	1 mg/l to 800 mg/l