SCOPE OF ACCREDITATION

Laboratory Name : DEFENCE FOOD RESEARCH LABORATORY (DFRL-DRDO), SIDDHARTHANAGAR, MYSORE, KARNATAKA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Aerobic Microbial Count	AOAC 990.12, 21st Edition (Petrifilm)
2	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Aerobic Microbial Count	RAFT-2019-CC-016 (Petrifilm Method)
3	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Enterobacteriaceae Count	AOAC 2003.01, 21st Edition (Petrifilm)
4	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Enterobacteriaceae Count	RAFT-2019-CC-014 (Petrifilm Method)
5	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Yeast & Moulds Count	AOAC 2014.05, 21st Edition (Petrifilm)
6	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Confectionery Bars	Yeast & Moulds Count	RAFT-2019-CC-018 (Petrifilm Method)
7	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Aerobic Microbial Count	AOAC 990.12, 21st Edition (Petrifilm)
8	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Aerobic Microbial Count	RAFT-2019-CC-016 (Petrifilm Method)
9	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Enterobacteriaceae Count	AOAC 2003.01, 21st Edition (Petrifilm)
10	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Enterobacteriaceae Count	RAFT-2019-CC-014 (Petrifilm Method)
11	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Yeast & Moulds Count	AOAC 2014.05, 21st Edition (Petrifilm)
12	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Processed Nuts	Yeast & Moulds Count	RAFT-2019-CC-018 (Petrifilm Method)
13	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods and Ready to Reconstitute Foods	Aerobic Microbial Count	RAFT-2019-CC-016 (Petrifilm Method)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
14	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods and Ready to Reconstitute Foods	Enterobacteriaceae Count	RAFT-2019-CC-014 (Petrifilm Method)
15	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods and Ready to Reconstitute Foods	Yeast & Moulds Count	RAFT-2019-CC-018 (Petrifilm Method)
16	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods, Meals Ready to Eat	Aerobic Microbial Count	AOAC 990.12, 21st Edition (Petrifilm)
17	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods, Meals Ready to Eat	Enterobacteriaceae Count	AOAC 2003.01, 21st Edition (Petrifilm)
18	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods, Meals Ready to Eat	Yeast & Moulds Count	AOAC 2014.05, 21st Edition (Petrifilm)
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Alcoholic Acidity	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.5, Page No. 18)
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Ash Insoluble in Dilute HCl	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.3, Page No. 16)
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Crude Fibre	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.8, Page No. 23)
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Energy	FAO, Chapter III
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Gluten Content	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.4, Page No. 17)
24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Moisture	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.1; Page No. 13)
25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Total Ash	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.2, Page No. 14)

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26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Total Carbohydrates	FAO, Chapter II
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Total Fat	IS 4684 (Appendix F)
28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereals and its Flours, Pulses and its Flours	Total Protein	FSSAI Manual for Analysis of Foods: Cereal and Cereal Products (Method No. 8.7, Page No. 19)
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionary Bars and Biscuits	Energy	FAO, Chapter III
30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionary Bars and Biscuits	Total Carbohydrates	FAO, Chaper II
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars	Total Protein	FSSAI Manual for Analysis of Foods: Beverages, Sugars and Confectionery Products (Method No. A.7, Page No. 68)
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars	Total Sugar	IS 6287
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Ash Insoluble in Dilute HCl	FSSAI Manual for Analysis of Foods: Beverages, Sugars and Confectionery Products (Method No. 1.5, Page No. 8)
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Crude Fibre	FSSAI Manual for Analysis of Foods: Beverages, Sugars and Confectionery Products (Method No. 5.8, Page No. 25)
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Moisture	FSSAI Manual for Analysis of Foods: Beverages, Sugars and Confectionery Products (Method No. A.2, Page No. 57)
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Reducing Sugars	IS 6287
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Total Ash	FSSAI Manual for Analysis of Foods: Beverages, Sugars and Confectionery Products (Method No. 1.3, Page No. 6)

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38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionery Bars and Biscuits	Total Fat	IS 4684 (Appendix F)
39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Crude Fibre	AOAC Official Methods of Analysis, 16th Edition (Method No. 935.53)
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Energy	FAO, Chapter III
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Moisture	AOAC Official Methods of Analysis, 16th Edition (Method No. 925.4)
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Total Ash	AOAC Official Methods of Analysis, 16th Edition (Method No. 950.49)
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Total Carbohydrates	FAO, Chapter II
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Total Fat	AOAC Official Methods of Analysis, 16th Edition (Method No. 948.22)
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Dry Nuts, Processed Nuts	Total Protein	AOAC Official Methods of Analysis, 16th Edition (Method No. 950.48)
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits and Dehydrated Fruits	Energy	FAO, Chapter III
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits and Dehydrated Fruits	Total Carbohydrates	FAO, Chapter II
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry fruits	Ash Insoluble in Dilute HCl	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No. 5.3, Page No. 35)
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits	Crude Fibre	IS 10226 (Part 1)
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Acidity	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No. 2.4, Page No. 12)

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51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Moisture	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No. 4.1, Page No. 34)
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	pH Value	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No. 2.3, Page No. 11)
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Protein	IS 7219
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Reducing Sugars	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No. 10.1, Page No. 41)
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Total Ash	FSSAI Manual for Analysis of Foods: Fruit and Vegetable Products (Method No.14.4, Page No. 44)
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Fruits, Dry Fruits, Freeze Dried Fruit Products, Osmodehydrated Fruit Products	Total Fat	IS 4684 (Appendix F)
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Ash Insoluble in Dilute HCl	FSSAI Manual for Analysis of Foods: Fruits and Vegetable Products (Method No. 5.3, Page No. 35)
58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Crude fibre	IS 10226 (Part I)
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Energy	FAO, Chapter III
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Moisture	FSSAI Manual for Analysis of Foods: Fruits and Vegetable Products (Method No. 4.1, Page No. 34)
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Protein	IS 7219
62	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Total Ash	FSSAI Manual for Analysis of Foods: Fruits and Vegetable Products (Method No. 14.4, Page No. 44)

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63	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Total Carbohydrates	FAO, Chapter II
64	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fresh Vegetables and Dehydrated Vegetables	Total Fat	IS 4684 (Appendix F)
65	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Oil from Oilseeds and Refined Oils	Acid Value	FSSAI Manual for Oils & Fats (Method No. 02.009, Page No. 21)
66	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Oil from Oilseeds and Refined Oils	Iodine Value	FSSAI Manual for Oils & Fats (Method No. 02.010, Page No. 24)
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Oil from Oilseeds and Refined Oils	Moisture	FSSAI Manual for Oils & Fats (Method No. FSSAI 02.001, Page No. 3)
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Oil from Oilseeds and Refined Oils	Refractive Index	FSSAI Manual for Oils & Fats (Method No. 02.003, Page No. 6)
69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Oil from Oilseeds and Refined Oils	Saponification Value	FSSAI Manual for Oils & Fats (Method No. 02.007, Page No. 16)
70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Ash Insoluble in Dilute HCl	FSSAI Manual for Analysis of Foods: Cereals & Cereal Products (Method No. 8.3, Page No. 16)
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Crude Fibre	FSSAI Manual for Analysis of Foods: Cereals & Cereal Products (Method No. 8.8, Page No. 23)
72	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Energy	FAO, Chapter III
73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Moisture	FSSAI Manual for Analysis of Foods: Cereals & Cereal Products (Method No. 8.1, Page No. 13)
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Total Ash	FSSAI Manual for Analysis of Foods: Cereals & Cereal Products (Method No. 8.2, Page No. 14)

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75	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Total Carbohydrates	FAO, Chapter II
76	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Total Fat	IS 4684 (Appendix F)
77	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat Foods, Ready to Reconstitute Foods	Total Protein	IS 7219
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Overall Migration	IS 9845
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Oxygen Transmission Rate	ASTM D3985
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Seal Strength	ASTM F88
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Tensile Strength	ASTM D882
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Thickness	ASTM F2251
83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Plastics	Water Vapour Transmission Rate	ASTM F1249