

Laboratory Central Quality Assurance Laboratory, Karnataka Co-operative Milk Producers Federation Limited, KMF Complex, Dr. M.H. Marigowda Road, Bangaluru, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7084

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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
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CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk (Raw Milk, Processed Milk- (Slim Milk, Double Toned Milk, Toned Milk, Standardised Milk, Full Cream Milk), Cow Milk, Buffalo Milk, UHT Processed Milk (Slim Milk, Toned & Double Toned Milk, Standardised Milk)	Fat	IS 1224 (Part-1)	0.1 % to 10 %
		Total Solids	IS 1479 (Part-2) Sr. No. 4	5 % to 30 %
		Total Ash	IS 1479 (Part-2) Clause 16	0.1 % to 10 %
		Acidity as Lactic Acid	IS 1479 (Part-1) Clause 14	0.01 % to 4.5 %
		Protein	AOAC 991.20	0.2 % to 10 %
2.	Flavored Milk (Pista, Badam, Chocolate, Mango, Rose)	Creaming Index	IS 4238 (Appendix A)	0.1 % to 50 %
		Turbidity	IS 4238 (Appendix B)	Qualitative
3.	Curds- Pouch & Set Curds (Real Thick Curd)	Total Solids	FSSAI Lab Manual 1 (Sr. No. 4.4)–Manual of Method of Analysis of Foods, Milk & Milk Products	5 % to 30 %
		Fat	FSSAI Lab Manual 1 (Sr. No. 4.2)–Manual of Method of Analysis of Foods, Milk & Milk Products	0.1% to 10%
4.	Spiced Butter Milk	Acidity as Lactic acid Fat	IS 1479 (Part-1) Clause 14 IS 1224 (Part-1)	0.01 % to 1 % 0.1 % to 10 %
5.	Lassi	Acidity as Lactic Acid	IS 1479 (Part-1) Clause 14	0.01 % to 5 %

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6.	Yoghurt	Total Solids Acidity as Lactic acid Protein Fat	FSSAI Lab Manual 1 (Sr. No. 4.4)–Manual of Method of Analysis of Foods, Milk & Milk Products IS 1479 (Part-1) Clause 14 AOAC 991.20 FSSAI Lab Manual 1 (Sr. No. 15.3)–Manual of Method of Analysis of Foods, Milk & Milk Products	10 % to 50 % 0.01 % to 5 % 0.2 % to 30 % 0.01 % to 50 %
7.	Paneer	Moisture Fat Protein Titratable Acidity	IS 10484 (Appendix A) IS 10484 (Appendix B) AOAC 991.20 IS 10484 (Annexure C)	10 % to 80 % 10 % to 70 % 0.2 % to 50 % 0.1 % to 5 %
8.	Butter	Fat Curd Titratable Acidity Added Salt Moisture	IS 3507 (Clause 6) IS 3507 (Clause 5) IS 3507 (Clause 8) IS 3507 (Clause 7) IS 3507 (Clause 4)	10 % to 95 % 0.1 % to 20 % 0.01 % to 5 % 0.001 % to 5 % 5 % to 50 %
9.	Ghee (special grade)	Moisture Free Fatty Acids	IS 3508 (Clause 4) IS 3508 (Clause 11)	0.05 % to 5 % 0.05 % to 15 %
10.	Skimmed milk powder	Fat Moisture Total Ash Titratable Acidity Protein	IS 13334 (Part 1) Annexure B IS 16072 IS 14433 (Annexure B) IS 11766 ISO 6092 AOAC 991.20	1 % to 2.5 % 0.1 % to 20 % 1 % to 20 % 2 mL to 50 mL 10 % to 50 %
11.	Whole milk powder	Fat Moisture Total Ash Protein Titratable Acidity	IS 1224 (Part 2) IS 16072 IS 1165 (Annexure A) AOAC 991.20 IS 1165 (Annexure B)	10 % to 50 % 0.1 % to 20 % 0.1 % to 20 % 10 % to 50 % 0.1 % to 10 %

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12.	Dairy whitener	Moisture Total Ash Fat Acid Insoluble Ash	IS 16072 IS 14433 (Part-1) (Annexure B) IS 1224 (Part 2) IS 14433 (Part-1) (Annexure C)	0.1 % to 10 % 0.1 % to 15 % 5 % to 50 % 0.01 % to 5 %
13.	Cream	Fat Titratable Acidity	IS 1224 (Part 2) IS 3509 (Clause 5)	10 % to 70 % 0.01 % to 5 %
14.	PEDA (Milk Peda, Kesar Peda, Elaichi Peda, Dharwad Peda)	Moisture Fat Acidity Protein	IS 4079 (Appendix A) IS 4079 (Appendix B) IS 1165 (Annexure B) AOAC 991.20	5 % to 30 % 5 % to 50 % 0.1 % to 5 % 5 % to 50 %
15.	BURFI (Cashew Burfi, Dry Fruit Burfi, Coconut Burfi, Chocolate Burfi, Badam Burfi)	Fat Acidity Moisture	IS 4079 (Appendix B) IS 1165 (Annexure B) IS 4079 (Appendix A)	5 % to 50 % 0.1 % to 5 % 5 % to 30 %
16.	Khova	Fat Acidity Total Ash Total Solids Protein	IS 2785 (Appendix B) IS 4883 (Appendix A) IS 14433 (Annexure B) IS 1166 (Appendix B) AOAC 991.20	10 % to 70 % 0.1 % to 5 % 1 % to 20 % 20 % to 80 % 5 % to 40 %
17.	Mysore Pak	Fat Acidity as oleic acid Moisture Protein	IS 12711 (Clause 10) IS 12711 (Clause 11) IS 12711 (Clause 5) AOAC 991.20	10 % to 80 % 0.01 % to 5 % 1 % to 20 % 0.5 % to 20 %
18.	Besan Laddo	Fat Acidity as oleic acid Moisture	IS 4079 (Appendix B) IS 12711 (Clause 11) IS 4079 (Appendix A)	5 % to 50 % 0.1 % to 5 % 1 % to 30 %

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19.	Ready to Eat Khova Jamoon	Moisture Syrup acidity	IS 4079 (Appendix B) IS 4079 (Appendix E)	5 % to 50 % 0.1 ml to 20 ml
20.	Ready to eat Rassogolla	Moisture Syrup acidity	IS 4079 (Appendix B) IS 4079 (Appendix E)	5 % to 50 % 0.1 ml to 20 ml
21.	Gulab Jamoon Mix	Fat Moisture Acid Insoluble Ash Protein	IS 12220 (Appendix B) IS 2234 (Annexure C) IS 2234 (Annexure E) AOAC 991.20	5 % to 50 % 0.1 % to 50 % 0.01 % to 10 % 5 % to 50 %
22.	Cookies	Moisture Acid Insoluble Ash Acidity of Extracted Fat	IS 1011 (Annexure B) IS 1011 (Annexure C) IS 1011 (Annexure D)	0.1 % to 50 % 0.001 % to 20 % 0.05 % to 25 %
23.	Corn flour	Moisture Acid Insoluble Ash Total Ash	IS 4706 (Part-II, Clause 4) IS 4706 (Part-II, Clause 8) IS 4706 (Part-II, Clause 5)	1 % to 50 % 0.01 % to 10 % 0.01 % to 10 %
24.	Maida	Moisture Total Ash Acid Insoluble Ash	IS 1009 (Appendix A) IS 1009 (Appendix B) IS 1009 (Appendix C)	5 % to 50 % 0.1 % to 10 % 0.01 % to 10 %
25.	Bengal Gram	Moisture	IS 1009 (Appendix A)	5 % to 50 %
26.	Vermicelli	Total Ash Moisture Acid Insoluble Ash Acidity Protein	IS 1485 (Annexure D) IS 1485 (Annexure C) IS 1485 (Annexure E) IS 1485 (Annexure H) AOAC 991.20	0.1 % to 5 % 0.1 % to 50 % 0.01 % to 5 % 0.1 % to 20 % 1 % to 30 %
27.	Coconut Powder	Moisture Fat Total Ash Acid Insoluble Ash	IS 966 (Annexure B) IS 966 (Annexure E) IS 966 (Annexure C) IS 966 (Annexure D)	0.1 % to 50 % 15 % to 95 % 0.1 % to 10 % 0.01 % to 10 %
28.	Cardamom	Moisture Total Ash Acid Insoluble Ash	IS 1797 (Clause 9) IS 1797 (Clause 9) IS 1797 (Clause 9)	1 % to 50 % 1 % to 25 % 0.1 % to 10 %

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29.	Kesar	Foreign matter content of saffron in filaments and cut filaments Floral Waste content in filaments and cut filaments Moisture & Volatile Matter at 130 °C	IS 5453 (Clause 9, Part 2) ISO 3632-2 IS 5453 (Clause 8, Part 2) ISO 3632-2 IS 5453 (Clause 7, Part 2) ISO 3632-2	0.01 % to 10 % 0.1 % to 25 % 1 % to 50 %
30.	Cashew Nuts	Moisture	IS 1011 (Annexure B)	0.1 % to 50 %
31.	Pista Nuts	Moisture	IS 1011 (Annexure B)	0.1 % to 50 %
32.	Badam Seeds	Moisture	IS 1011 (Annexure B)	0.1 % to 50 %
33.	Coffee & Cocoa Products	Moisture Total Ash Acid Insoluble Ash Coco butter	IS 1164 (Appendix B) IS 1164 (Appendix D) IS 1164 (Appendix E) IS 1164 (Appendix C)	0.1 % to 50 % 1 % to 50 % 0.01 % to 25 % 1 % to 50 %
34.	Sugar	Loss on Drying	IS 15279 (Clause 4)	0.01 % to 50 %
II.	ANIMAL FOOD & FEED			
1.	Finished feed	Moisture Acid Insoluble Ash Crude Protei Crude Fiber Ether Extract	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 10) AOAC 991.20 IS 7874 (Part I, Clause 8) IS 7874 (Part I, Clause 7)	1 % to 50 % 0.1 % to 20 % 2 % to 70 % 1 % to 50 % 0.1 % to 50 %
2.	Rice polish	Ether Extract Moisture Acid Insoluble Ash Crude Fiber	IS 7874 (Part I, Clause 7) IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 10) IS 7874 (Part I, Clause 8)	1 % to 50 % 1 % to 50 % 0.1 % to 20 % 1 % to 50 %

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3.	De-Oiled Rice Bran	Moisture Acid Insoluble Ash Crude Protein Crude Fiber	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 10) AOAC 991.20 IS 7874 (Part I, Clause 8)	1 % to 50 % 0.1 % to 20 % 2 % to 70 % 1 % to 50 %
4.	Maize	Moisture	IS 7874 (Part I, Clause 4)	1 % to 50 %
5.	Coconut De Oiled Cake	Moisture Acid Insoluble Ash Crude Protein Crude Fiber	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 10) AOAC 991.20 IS 7874 (Part I, Clause 8)	1 % to 50 % 0.1 % to 20 % 2 % to 70 % 1 % to 50 %
6.	Soya de oiled cake	Moisture Crude Fiber Crude Protein Acid Insoluble Ash	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 8) AOAC 991.20 IS 7874 (Part-I, Clause 10)	1 % to 50 % 1 % to 50 % 1 % to 70 % 0.1 % to 20 %
7.	Sunflower cake	Ether Extract Acid Insoluble Ash Crude Fiber Moisture Rape Seed	IS 7874 (Part I, Clause 7) IS 7874 (Part I, Clause 10) IS 7874 (Part I, Clause 8) IS 7874 (Part I, Clause 4) AOAC 991.20	0.1 % to 50 % 0.01 % to 20 % 1 % to 50 % 1 % to 50 % 2 % to 70 %
8.	Rape Seed	Moisture Acid Insoluble Ash Crude Protein Crude Fiber	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 10) AOAC 991.20 IS 7874 (Part I, Clause 8)	1 % to 50 % 0.01 % to 20 % 2 % to 70 % 1 % to 50 %
9.	Di-calcium phosphate	Fluoride	IS 5470 (Annexure B)	0.01 % to 5 %
10.	Cotton seed de oiled cake	Moisture Crude Fiber Crude Protein Acid Insoluble Ash	IS 7874 (Part I, Clause 4) IS 7874 (Part I, Clause 8) AOAC 991.20 IS 7874 (Part I, Clause 10)	1 % to 50 % 1 % to 50 % 2 % to 70 % 0.01 % to 20 %

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III.	SOAP DETERGENT & TOILETRIES			
1.	Synthetic Detergent For Industrial Purpose	Moisture and Volatile Matter	IS 4956 (Annexure B)	5 % to 50 %
		Active Ingredients	IS 4956 (Annexure C)	1 % to 70 %
IV.	WATER			
1.	Drinking water, Packaged drinking water	Sulphate	IS 3025 (Part 24)	0.1 mg/l to 1000 mg/l
		Total Hardness	IS 3025 (Part 21)	1 mg/l to 1000 mg/l
		Turbidity	IS 3025 (Part 10)	1 NTU to 200 NTU
		Alkalinity (as HCO ₃),	IS 3025 (Part 23)	1 mg/l to 1000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16)	1 mg/l to 2000 mg/l
		Chloride	IS 3025 (Part 32)	1 mg/l to 1000 mg/l
			Argentometric Method (Clause 2)	

*NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428**.