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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	DRUGS AND PHA	RMACEUTICALS		
1.	Lactose	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
2.	Microcrystalline cellulose	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Magnesium Stearate	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
4.	Crosscarmellose Sodium	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Maize Starch (Pre-gelatinized Starch)	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
	Starch)	Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
II.	FOOD AND AGR	S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
1.	Milk & Dairy Pro			
a.	Milk Powder	Total Plate Count	IS 1165: 2002 (RA 2009) IS 5402: 2002	>10 cfu/g
		Coliform	IS 1165: 2002; (RA 2009) IS 5401(Part 1): 2002	Qualitative (Absent/Present) per 0.1 g
		S.aureus	IS 1165: 2002 (RA 2009) IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per 0.1 g
		Salmonella	IS 1165: 2002 (RA 2009) IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
		Shigella	IS 1165: 2002 (RA 2009) IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	Cream (Pasteurized	Total Plate Count	IS 3509: 1966 RA 2003	>10 cfu/g
	Cream)	Coliform	IS 3509: 1966 RA 2003	>10 cfu/g
c.	Butter	Coliform	IS 3507: 1966 RA 2003	>10 cfu/ml
		Yeast & Mould Count	IS 3507: 1966 RA 2003	>10 cfu/ml
d.	Malted Milk Food	Total Plate Count	IS 1806: 1975 IS 5402: 2002	>10 cfu/g
		Coliform	IS 1806: 1975 IS 5401 (Part 1): 2002	>10 cfu/g
e.	Dahi	Yeast & Mould Count	IS 9617: 1980 IS 5403: 1999 (RA 2005)	>10 cfu/g
		Coliform	IS 9617: 1980 IS 5401(Part 1): 2002	>10 cfu/g
f.	Milk (Pasteurized	Total Plate Count	IS 1479 (Part 3): 1977 (RA 2009) IS 5402: 2002	>1 cfu/ml
	Milk)	Coliform	IS 5401 (Part 1): 2002	>1 cfu/ml
			IS 1479 (Part 3): 1997 (RA 2009) IS 5401 (Part 2): 2002	(0.3 to 110) MPN / ml
		S.aureus	IS 1479 (Part 3): 1977 (RA 2009) IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per ml
g.	Condensed Milk	Total Plate Count	IS 1166: 1986 (RA 1997) IS 5402: 2002	>10 cfu/g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Condensed Milk	Coliform	IS 1166: 1986 (RA 1997) IS 5402: 2002 IS 5401 (Part 1): 2002	>10 cfu/g
		Yeast & Mould Count	IS 1166: 1986 (RA 1997) IS 5402: 2002 IS 5403: 1999 (RA 2005)	>10 cfu/g
		S.aureus	IS 1166: 1986 (RA 1997) IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per g
h.	Milk Cereal based Food	Total Plate Count	IS 1656: 2007 (RA 2009) IS 5402: 2002	>10 cfu/gm
		Coliform	IS 1656: 2007 (RA 2009) IS 5401 (Part 1): 2002	Qualitative (Absent/Present) per 0.1 g
		E.Coli	IS 1656: 2007 (RA 2009) IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present) per 0.1 g
		S.aureus	IS 1656: 2007 (RA 2009) IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per 0.1 g
		Salmonella	IS 1656: 2007 (RA 2009) IS 5887 (Part 3): 1976 (RA 2005)	Qualitative (Absent/Present) per 25 g
		Shigella	IS 1656: 2007 (RA 2009) IS 5887 (Part 7): 1976 (RA 2005)	Qualitative (Absent/Present) per 25 g
		Yeast & Mould Count	IS 1656: 2007 (RA 2009) IS 5403: 1999 (RA 2005)	Qualitative (Absent/Present) per 0.1 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
i.	Raw Milk	Coliform	IS 5401 (Part 1): 2002	>1 cfu/ml
		Coliform	IS 1479 (Part 3): 1977 (RA 2009) IS 5401 (Part 2): 2002	(0.3 to 110) MPN/ml
		Total Plate Count	IS 1479 (Part 3): 1977 (RA 2009) IS 5402 : 2012	>1 cfu/ml
j.	Paneer	Total Plate Count	IS 10484: 1983 (RA 2010) IS 5402: 2012	>10 cfu/g
		Coliform	IS 10484: 1983 (RA 2010) IS5401 (Part 1): 2002	>10 cfu/g
		Yeast & Mould Count	IS 10484: 1983 (RA 2010) IS5403: 1999 (RA 2005)	>10 cfu/g
2.	Food Additives &	Preservatives		
a.	Guar Gum	Total Plate Count	IS 10502: 1993 IS 5402: 2002	>100 cfu/g
		Yeast & Mould Count	IS 10502: 1993 IS 5403: 1999 (RA 2005)	>100 cfu/g
		E.coli	IS 10502: 1993 IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present) per g
		Salmonella	IS 10502: 1993 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per g
3.	Bakery & Confect	ionery Products		
a.	Chocolates	S.aureus	IS 1163: 1992 (RA 2004) IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per 10 g

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N. Venkateswaran **Program Manager**

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Chocolates	Salmonella	IS 1163: 1992 (RA 2004) IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
		E.Coli	IS 1163: 1992 IS 5887 (Part 1):1999 (RA 2005)	Qualitative (Absent/Present) per 10 g
		Yeast & Mould Count	IS 1163: 1992 IS 5403: 1999 (RA 2005)	>10 cfu/g
4.	Other Specified F	ood Items		
a.	Corn Flour	E.Coli	IS 1005: 1992 (RA 2009) IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present) per 25 g
	Corn Flour	Salmonella	IS 1005: 1992 (RA 2009) IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
b.	Wheat Flour	Vitamin B12 Assay	IS 7529: 1975	0.0095 mg/kg to 0.0110 mg/kg
		Folic Acid Assay	IS 7234: 1974	1.235 mg/kg to 1.43 mg/kg
5.	Herbs, Spices & C	Condiments		
a.	Large- cardamom	Salmonella	IS 13446: 2009 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
b.	Coriander	Salmonella	IS 2443: 2008 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
c.	Red Chilli	Salmonella	IS 2322: 2010 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 25 g
d.	Turmeric Powder	Salmonella	IS 5887 (Part 3): 1976 (RA 2005)	Qualitative (Absent/Present) per 25 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Beverages (Alcoho	olic / Non-Alcoholic)		
a.	Non-Alcoholic Beverages	Total Plate Count	IS 13019: 1991 IS 5402: 2002	>1 cfu/ml
		Coliform	IS 13019: 1991 ISO 4831: 2006 IS 5401 (Part 2): 2002	Qualitative (Absent/Present) per 25 g
		Yeast & Mould Count	IS 13019: 1991 IS 5403: 1999 (RA 2005)	>1 cfu/ml
b.	Carbonated Beverages	Total Plate Count	IS 2346: 1992 (RA 2009) IS 5402: 2002	>1 cfu/ml
		Coliform	IS 2346: 1992 (RA 2009) ISO 4831: 2006 IS 5401 (Part 2): 2002	Qualitative (Absent/Present) per 100ml
7.		Yeast & Mould Count	IS 2346: 1992 (RA 2009) IS 5403: 1999 (RA 2005)	>1 cfu/ml
/.				
a.	Water soluble vitamins	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
	with mineral blends	Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	Oil soluble vitamins with mineral blend	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
	mineral blend	Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
c.	Ginger Extract	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
d.	Senna Extract	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
e.	Valerian Extract	Total Aerobic Microbial counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		Total yeast and mould counts	USP 2014<61> <2021, 2023>	>10 cfu/g
		E.coli	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		Salmonella spp.	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		P. aeruginosa	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g
		S. aureus	USP 2014<62> <2022, 2023>	Qualitative (Present/Absent) per 10 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
f.	Multivitamin Tablets	Vitamin B12	APAD-145 Rev. no. 00, Effective dt:17/01/12	> 0.0049 mcg/ml
		Calcium Pantothenate	APAD-147 Rev. no. 00, Effective dt:17/01/12	> 3.87 ng/ml
		Biotin	APAD-146 Rev. no. 01, Effective dt:12/07/14	>0.0055 ng/ml
g.	Multivitamin Capsules	Vitamin B12	APAD-149 Rev. no. 00, Effective dt:17/01/12	> 0.020 mcg/ml
		Calcium Pantothenate	APAD-148 Rev. no. 00, Effective dt:17/01/12	> 3.87 ng/ml
III.	WATER			
1.	Packaged Drinking water	E.coli	IS 14543: 2004 IS 15185: 2002	Qualitative (Absent/Present) per 250 ml
		Coliform	IS 14543: 2004 IS 15185: 2002	Qualitative (Absent/Present) per 250 ml
		Faecal Streptococci	IS 14543: 2004 IS 15186: 2002 (RA 2007)	Qualitative (Absent/Present) per 250 ml
		S.aureus	IS 14543: 2004 IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present) per 250 ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Packaged Drinking water	Pseudomonas aeruginosa	IS 14543: 2004 IS 13428: 2005	Qualitative (Absent/Present) per 250 ml
		Total viable count	IS 14543: 2004 IS 5402: 2002	>1 cfu/ml
		Yeast & Mould	IS 14543: 2004 IS 5403: 1999 (RA 2005)	Qualitative (Absent/Present) per 250 ml
		Salmonella	IS 14543: 2004 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present) per 250 ml
		Shigella	IS 14543: 2004 IS 5887 (Part 7): 1976 (RA 2005)	Qualitative (Absent/Present) per 250 ml
		Sulphite reducing anaerobes	IS 14543: 2004 IS 13428: 2005	Qualitative (Absent/Present) per 50 ml
		Vibrio cholerae	IS 14543: 2004 IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present) per 250 ml
		Vibrio parahaemolyticus	IS 14543: 2004 IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present) per 250 ml
2.	Drinking water	Coliform	IS 10500:2012 IS 1622: 1981 Amend.2003	(1 to 161) MPN/100 ml
		E-coli	IS 10500: 2012 IS 1622: 1981 Amend.2003	Qualitative (Absent/Present) per 100 ml
IV.	COSMETICS AN	D ESSENTIAL OILS		
1.	Skin Cream	Total viable count Bacterial Count	IS 6608: 2004 IS 14648: 2011	>10 cfu/g

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	Skin Cream	Yeast & Mould Count	IS 6608: 2004 IS 14648: 2011	>10 cfu/g
		Gram Negative pathogen (E.coli, Pseudomonas aeruginosa)	IS 14648: 2011	Qualitative (Absent/Present) per g
		S. aureus	IS 14648: 2011	Qualitative (Absent/Present) per g
		C.albicans	IS 14648: 2011	Qualitative (Absent/Present) per g

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

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