Laboratory	**Shree Analytical Testing & Research Laboratory, Shop No. 32, 33, 34 & 35 Suresh Dada Jain Vegetable Market, Ajanta Road, Jalgaon, Maharashtra**	
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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

BIOLOGICAL TESTING

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	**WATER**			
1.	**Water (drinking purpose water)**	Coli form	IS 5401(Part I)2002 RA-2018	≥1 cfu/100 ml
		E Coli	IS 5887 (P-I) 1976 RA 2018	Present / Absent / 100 ml
II.	**FOOD AND AGRICULTURAL PRODUCTS**			
1.	**Protein rich food, infant food, Cereals based complimentary Food, rte food**	Coli form	IS 5401(Part I)2002 RA-2018	≥1 cfu/gm
		E Coli	IS 5887 (P-I) 1976 RA 2018	(Present / Absent)/ 0.1 g
		Salmonella	IS 5887 (PART -3)1999 RA-2018	(Present / Absent)/ 0.1 g
		Total Plate Count at 30°C	IS 5402: 2012 RA-2018	≥10 cfu/gm
2.	**Cooked Foods**	Coli form	IS 5401(Part I)2002 RA-2018	≥1 cfu/gm
		E Coli	IS 5887 (P-I) 1976 RA 2018	(Present / Absent)/ 0.1 g
		Total Plate Count at 30° C	IS 5402: 2012 RA-2018	≥10 cfu/gm
3.	**Milk And Milk Products**	Coli form	IS 5401(Part I)2002 RA-2018	≥1 cfu/gm
		E Coli	IS 5887 (P-I) 1976 RA 2018	(Present / Absent)/ 0.1 g
		Total Plate Count at 30° C	IS 5402: 2012 RA-2018	≥10 cfu/gm
4.	**Sugar &sugar products'**	Coli form	IS 5401(Part I)2002 RA-2018	≥1 cfu/gm

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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
		E Coli	IS 5887 (P-I) 1976 RA 2018	(Present / Absent)/ 0.1 g
		Total Plate Count at 30° C	IS 5402: 2012 RA-2018	≥10 cfu/gm

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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
		CHEMICAL TESTING		
I.	**FOOD & AGRICULTURAL PRODUCTS**			
1.	**Protein rich food supplements for infants and preschool children , protein rich food, RTE food**	Moisture	IS 4684 -1975 (Appendix B) RA-2010	1% to 10 %
		Ash	IS 4684 -1975 (Appendix D) RA-2010	0.2% to 10 %
		Fat	IS 4684 -1975 (Appendix F) RA-2010	0.1% to 15 %
		Protein	IS 4684 -1975 (Appendix C) RA-2010	1% to 30 %
		Calories	SATRL/SOP/02/B/ii Issue No:-1 Issue Date :20.08.2013	Qualitative
		Carbohydrate	IS 1656-2007 (Annex –C)	Qualitative
		Vitamin C	IS 5838-1970	0.5 mg/100 g to100 mg/100 g
		Calcium	IS 7874 (Part II)1975	10 mg/100 g to 500 mg/100 g
		Iron	IS 14433: 2007 (ANNEX-D)	1 mg/100 g to 50 mg/100 g
		Folic Acid (Vitamin B9)	SATRL/SOP/02/X Issue No: -1 Issue Date :10.12.2015	(2 µg to 110 µg)/100 g
		Vitamin B1	SATRL/SOP/05 Issue No: -1 Issue Date :05.01.2016	(0.05 mg to 5 mg)/100 g
		Vitamin B2		(0.05 mg to 5 mg)/100 g
		Vitamin B3		(0.05 mg to 5 mg)/100 g
		Vitamin A		(2 µg to 1000 µg)/100 g

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude Fiber	IS 1155:1968 Rediff:2010(annexure :E)	0.1 g/100 gm to 10 g/100 gm
2.	**Grains, pulses, Cereal & their products**	Moisture	IS 1009 (Appendix A) 1979 RA 2010	1% to 15 %
		Ash	IS 1009 (Appendix B) 1979 RA 2010	0.5% to 10 %
		Acid insoluble ash	IS 1009 (Appendix C) 1979 – RA 2010	0.02% to 0.5 %
		Alcoholic Acidity	IS 1009 (Appendix E) 1979 – RA 2010	0.05% to 0.20 %
		Protein	IS 4684 -1975 (Appendix C) RA-2010	0.5% to 25 %
		Gluten	IS 1009 (Appendix D) 1979 – RA 2010	5 % to 15 %
3.	**Cooked foods (khichadi, lapasi, usal, and related)**	Energy / Calories	SATRL/SOP/02/B/ii Issue No:-1 Issue Date :20.08.2013	Qualitative
		Carbohydrate	1656-2007 (Annex –C)	Qualitative
		Total Fat	IS: 15271:2009, IS: 12711 - 1994	1.00% to 20.00 %
		Protein	IS : 7219 - 2005	7% to 50 %
		Moisture	IS: 15271 – 2009, IS:1011- 2002	1% to 10 %
		Ash	IS: 15271 - 2009 IS: 1011 – 2002	1% to 40 %

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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
4.	**Food Grade Packing Material**	Overall Migration	IS 9845-1998	0.1 mg /dm^2 to 10 mg /dm^2 0.1 mg /dm^2 To 60 mg/kg
II	**POLLUTION AND ENVIRONMENT**			
1.	**Soil**	Total Nitrogen	IS: 14684:1999 RA 2014	10 kg/ha to 1400 kg/ha
		Available Phosphorous	STI (MOA-GOI) -4.6.3.13	5 kg/ha to 2567kg/ha
		Available Potassium	STI (MOA-GOI) -4.6.3.14	10 kg/ha to 1200 kg/ha
		pH	IS:2720 (Part 26) 1987, RA 2011	1 to 14
		EC	IS: 14767, 2000 RA 2016	0.05 µS/cm to 20000 µS/cm
		Organic Carbon	IS: 2720 (Part 22), 1972 RA 2015	0.5% to 10%
III.	**WATER**			
1.	**Water (Drinking Purpose Water)**	pH	IS 3025 (P-11) 1983- Clause-2 RA-2012	4 to 14
		TDS	IS 3025 (P-16) 1984 - Clause -2 RA-2006	5 mg/l to 2000 mg/l
		Chloride	IS 3025 (P-32) 1988 – Clause -2 RA- 2009	5 mg/l to 250 mg/l
		Residual chlorine	IS 3025 (P-26) 1986- Clause-3 RA-2009	0.05 mg/l to 5 mg/l

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