

**Laboratory**                      **Food Testing Laboratory, Indian Institute of Crop Processing  
Technology, Ministry of Food Processing Industries, Government of  
India, Thanjavur, Tamil Nadu**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Discipline**                      **Chemical Testing**                      **Issue Date**    **02.01.2015**

**Certificate Number**        **T-1695**                      **Valid Until**    **01.01.2017**

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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>I.      FOOD &amp; AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Food Grains</b>	Moisture	AOAC (19 <sup>th</sup> Eddition): 2012, 930.15	5 to 35 (g/100g)
		Total Ash	AOAC (19 <sup>th</sup> Eddition): 2012, 923.03	0.1 to 10 (g/100g)
		Protein	AOAC (19 <sup>th</sup> Eddition): 2012, 976.05	0.5 to 30 (g/100g )
		Fat	AOAC (19 <sup>th</sup> Eddition): 2012, 920.39	0.1 to 20 ( g/100g)
		Iron	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Copper	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Zinc	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Magnesium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Calcium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Chromium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Total Arsenic	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Cadmium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg

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		Potassium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Lead	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Selenium	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Mercury	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Antimony	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Silver	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
		Manganese	AOAC Official Method, 2011.14 & 2013.06	10 to 100 mg/kg
<b>2.</b>	<b>Oils and Fats</b>	Fatty acid Composition (Octanoic acid, Decanoic acid, Lauric acid, Myristic acid, Palmitic acid, Linoleic acid, Linolenic acid, Stearic acid, Oleic acid)	AOCS Official method (1998) (5 <sup>th</sup> Edn): Ce 1.62 and Ce2-66	Qualitative
<b>3.</b>	<b>Oil Seeds, Seed cakes</b>	Oil Content	AOAC (19 <sup>th</sup> Edition): 2012, 991.36	0.5 to 50 (g/100g)

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<b>4.</b>	<b>Cereal and Cereal Products</b>	Total Solids	AOAC (19 <sup>th</sup> Eddition): 2012; 925.10;	84 to 92 (g/100g)
		Total Moisture	AOAC (19 <sup>th</sup> Eddition): 2012; 930.15	0.5 to 15.0 (g/100g)
		Ash	AOAC (19 <sup>th</sup> Eddition): 2012; 923.03;	0.5 to 6 .0 (g/100g)
		Fat	AOAC (19 <sup>th</sup> Eddition): 2012; 2003.06;	0.5 to 30.0 (g/100g)
		Crude Fiber	AOAC (19 <sup>th</sup> Eddition): 2012; 962.09;	0.3 to 4.0 (g/100g)
<b>5.</b>	<b>Spices and Condiments</b>	Moisture	AOAC (19 <sup>th</sup> Eddition): 2012; 986.21;	3.0 to 15.0 (g/100g)
		Ash	AOAC (19 <sup>th</sup> Eddition): 2012; 941.12;	3.0 to 7.0 (g/100g)
		Acid Insoluble Ash	AOAC (19 <sup>th</sup> Eddition): 2012; 941.12;	0.2 to 1.0 (g/100g)
		Volatile Oil	AOAC (19 <sup>th</sup> Eddition): 2012; 962.17;	0.5 to 3.0 (g/100g)
<b>6.</b>	<b>Fruits &amp; Vegetables</b>	Soluble Solids	AOAC (19 <sup>th</sup> Eddition): 2012; 932.14 C;	3.0 to 9.0 (g/100g)
		Titratable acidity	AOAC (19 <sup>th</sup> Eddition): 2012; 942.15;	2.5 to 3.5 (g/100g)
		Water insoluble solids	AOAC (19 <sup>th</sup> Eddition): 2012; 922.10;	0.10 to 2.0 (g/100g)
		Ash insoluble solids	IS 13846 : 2009 ISO 763 : 2003	0.2 to 0.5 (g/100g)

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7.	Food Additives	Total Dye (Tested for sudan III and other similar dyes)	IS 6120: 1971 UDC: 664-099-61: 543.544: 668.8	0.1 mg/kg to 5.0 mg/kg
8.	Milk And Milk Products	Moisture	AOAC (19 <sup>th</sup> Eddition): 2012; 927.05	2.0 to 4.0 (g/100g)
		Titratable acidity	AOAC (19 <sup>th</sup> Eddition): 2012; 947.05	2.5 to 4.0 (g/100g)
		Total Ash	AOAC (19 <sup>th</sup> Eddition): 2012; 930.30	2.0 to 5.0 (g/100g)
		Fat	AOAC (19 <sup>th</sup> Eddition): 2012; 932.06	1.5 to 26.0 (g/100g)
<b>II. WATER</b>				
1.	Water, Drinking Water	Colour	IS 3025 (part 4): 1983 (RA 2012)	1 to 50 Hazen units
		Taste	IS 3025 (part 8) ): 1983 (RA 2012)	Qualitative
		Odour	IS 3025 (part 5): 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (part 10): 1983 (RA 2012)	1 to 100 NTU
		pH	IS 3025 (part 11): 1983 (RA 2012)	1.0 to 9.0
		Total Dissolved Solids	IS 3025 (part 16): 1983 (RA 2012)	5 mg/L to 3000 mg/L
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (1964): 1983 (RA 2012)	5 to 1000 mg/L as CaCO <sub>3</sub>

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2.	Packaged drinking water	Iron	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Copper	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Zinc	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Magnesium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Calcium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10mg/L
		Chromium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Total Arsenic	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Cadmium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Potassium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Lead	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
		Selenium	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10mg/L
		Mercury	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10 mg/L
Antimony	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L		

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	<b>Packaged drinking water</b>	Silver	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Manganese	IS 3025 (Part 2): 2004 ISO 11885:1996	1 to 10mg/L
<b>3.</b>	<b>Bore well Water</b>	Iron	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Copper	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Zinc	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Magnesium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Calcium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10mg/L
		Chromium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Total Arsenic	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Cadmium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Potassium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Lead	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Selenium	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10mg/L

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	Bore well Water	Mercury	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Antimony	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Silver	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L
		Manganese	IS 3025 (Part 2): 2004 ISO 11885: 1996	1 to 10 mg/L

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**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**.

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