



NABL

SCOPE OF ACCREDITATION

Laboratory	RCA Laboratories, 501/502/522 & 213, Milan Industrial Estate, Abhudaya Nagar, Cotton Green, Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.01.2016
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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. FOODS & AGRICULTURAL PRODUCTS				
1.	Cereals, Pulses & By-Products	Refractions	IS 43333 (Part 1): 1996 (RA 2008) / IS 10768: 1984 (RA 2005)	0.1 % to 20 % (m/m)
		Detection of Hectoliter Weight	IS 4333 (Part 3): 2002 (RA 2008) / IS 7971-2: 1995	60 kg/hl to 90 kg/hl
		Moisture	IS 4333 (Part 2): 2002 (RA 2008) / IS 1009: 1979 (RA 2005) / IS 1155: 1968 (RA 2005) / AOAC: 19 th Edition) 925.10: 2012 / ISO 712: 1998	5 % to 18 % (m/m)
		Ash	IS 1155: 1968 (RA 2005) / IS 1009: 1979 (RA 2005) / AOAC 923.03: 19 th Edition) 2012	0.2 % to 3.0 % (m/m)
		Acid Insoluble Ash	IS 1009: 1979 (RA 2005) / IS 1155: 1968 (RA 2005)	0.1 % to 1.0 % (m/m)
		Wet Gluten	IS 8162: 1998 (RA 2003) / ISO 5531: 1978 / GAFTA-130(26-1): 2014	20 % to 35 % (m/m)
		Dry Gluten	IS 1009: 1979 (RA 2005) / IS 1155: 1968 (RA 2005)	7 % to 15 % (m/m)

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	Cereals, Pulses & By-Products	Protein / Crude Protein	AOAC : 19 th Edition) 920.87: 2012/ IS 7219: 1973 (RA 2005)	7 % to 15 % (m/m)
		Alcoholic Acidity	IS 1009: 1979 (RA 2005)/ IS 1155: 1968 (RA 2005)	0.1 % to 0.2 % (m/m)
		Wheat Sedimentation Index / Value	IS 13864 (RA 2005) / ISO 5529: 1992) / IS 4782: 1968 (RA 1994)	15 ml to 25 ml
		Potassium Bromate/ Iodate In Flour	AOAC (19 th Edition) 956.03: 2012	Qualitative
		Aflatoxin (TLC)	IS 13427: 1992 (RA 2008) / ISO 6651: 1987	≤10 ug/kg (Limit test)
		Aflatoxin (HPLC)	AOAC (19 th Edition) 990.33: 2012/	0.5 ug/kg to 50 ug/kg
		Uric Acid	IS 4333 (Part 5: 1970 (RA 2005)	0 to 100 mg/100g
		Crude Fibre	IS 1155: 1968 (RA 2005) / IS 2239: 1971 (RA 2004)	0.1 % to 3.0 % (m/m)
		Ergot	IS 8184: 1976 (RA 2005)	Qualitative
		Pesticide Residue		
2.	Cereals : Rice , Wheat, Atta & Pulse	Iron (Fe)	RCAL/MUM/RESIDUES-WI/06	10 ug/kg to 1000 ug/kg
		Molybdenum (Mo)	Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg

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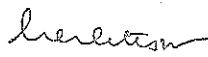
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3.	Cereals : Rice , Wheat, Atta & Pulse	Lead (Pb)	RCAL/MUM /RESIDUES-SOP/02 Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Zinc(Zn)		10 ug/kg to 1000 ug/kg
		Copper (CU)		10 ug/kg to 1000 ug/kg
		Arsenic (As)		10 ug/kg to 1000 ug/kg
		Mercury (Hg)		10 ug/kg to 1000 ug/kg
	Animal Feeds (Extractions/De-Oiled Cakes)	Moisture	GAFTA 130 (2-1): 2014/ IS 7874 (Part 1): 1975 (RA 2004) / AOAC (19 th Edition) 930.15: 2012	5 % to 15 % (m/m)
		Protein & Crude Protein		20 % to 65 % (m/m)
		Oil		0.5 % to 20 % (m/m)
		Crude Fiber		3 % to 40 % (m/m)


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	Animal Feeds (Extractions/De-Oiled Cakes)	Ash	GAFTA-130 (11-0): 2014/ IS 7874 (Part 1): 1975 (RA 2004)/ AOAC (19 th Edition) 942.05: 2012	1 % to 15 % (m/m)
		Acid Insoluble Ash/ Sand & Silica	GAFTA- 130 (12-0): 2014/ IS 7874 (Part 1): 1975 (RA 2004)	0.2 % to 10 % (m/m)
		Urease Activity	GAFTA- 130 (22-0): 2014	0.05 mgN/g/min to 2.0 mgN/g/min at 30°C
		Aflatoxin (TLC)	AOCS Ab 6-68: 1999 / IS 13427: 1992 (RA 2008)/ ISO 6651: 1987/	≤10 ug/kg (Limit Test)
		Calcium	GAFTA-130 (14-1): 2014 / AOAC (19 th Edition): 2012 / IS 7874 (Part 2): 1975 (RA 2004)	3 % to 8 % (m/m)
		Phosphorous	GAFTA- 130 (8-0): 2014/ AOAC (19 th Edition) 965.17: 2012	2 % to 5 % (m/m)
		Ammoniacal Nitrogen	IS 7874 (Part 1): 1975 (RA 2004)	0.3 % to 1.0 % (m/m)
		Urea	AOAC (19 th Edition) 967.07: 2102 GAFTA 130(6:0): 2014	0.1 % to 0.5 % (m/m)

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4.	Animal Feeds And Products	Pesticide Residue		
		Cadmium	RCAL/MUM/RESIDUES-WI/06	10 ug/kg to 1000 ug/kg
		Iron (Fe)	Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Molybdenum (Mo)	RCAL/MUM /RESIDUES-SOP/02	10 ug/kg to 1000 ug/kg
		Lead (Pb)	Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Zinc(Zn)		10 ug/kg to 1000 ug/kg
		Copper (CU)		10 ug/kg to 1000 ug/kg
		Arsenic (As)		10 ug/kg to 1000 ug/kg
		Mercury (Hg)		10 ug/kg to 1000 ug/kg
5.	Sugar And By Products			
a.	Raw Sugar	Polarization	ICUMSA GS 1/2/3/9-1:: 2011 / IS 15279: 2003 (RA 2008)	70..0 to 99.9 °Z
		Moisture	ICUMSA GS 2/1/3/9-15:: 2007) IS 15279: 2003 (RA 2008)	0.04 % to 5.0 % (m/m)
		Sulphated Ash	ICUMSA GS 1-10 Amd. : 1998 / IS 15279: 2003 (RA 2008)	0.04 % to 1.0 % (m/m)
		Colour	ICUMSA GS 1/3-7: 2011 ICUMSA GS 9/1/2/3-8: 2011	300 Units to 5000 Units
		Reducing Sugar	ICUMSA GS 1/3/7-3: 2005) / ICUMSA GS 1-5: 2009)	0.05 % to 2.0 % (m/m)

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b.	Raw Sugar	Dextran	ICUMSA GS 1/2/9-15: 2011	10 mg/kg to 800 mg/kg
		Conductivity Ash	ICUMSA GS 1/3/4/7/8-13: 1994 / IS 15279: 2003 (RA 2008)	0.01 to 0.5 (m/m)
		Starch	ICUMSA GS 1-16: 2009)	50 mg/kg to 300 mg/kg
	Refined Sugar	Polarization	ICUMSA GS 2/3 -1: 2011 / IS 15279: 2003 (RA 2008)	95.0 °Z to 99.9 °Z
		Moisture	ICUMSA GS 2/1/3/ 9-15: 2007) / IS 15279: 2003 (RA 2008)	0.02 % to 0.1 %(m/m)
		ICUMSA Colour	ICUMSA GS 2/3-9: 2005) GS 2/3-10: 2011 GS 9/1/2/3-8: 2011 IS 15279: 2003 (RA 2008)	25 IU to 100 IU 100 IU to 300 IU
		Calcium	ICUMSA GS 8/2/3/4-9: 2000)	0.2 % to 0.5 % (m/m)
		Sulphite By Colorimetry	ICUMSA GS 2/1/7/9-33: 2011 / IS 15279: 2003 (RA 2008)	1 mg/kg to 100 mg/kg
		Insoluble Matter	ICUMSA GS 2/3/9: 19: 2007) / IS 15279: 2003 (RA 2008)	0.005 % to 0.1 %(m/m)
		Reducing Sugar	ICUMSA GS 2/3/9-5: 2011 / ICUMSA GS 2/9-6: 2011 / IS 15279: 2003 (RA 2008)	0.005 % to 0.05 %(m/m)
		Conductivity Ash	ICUMSA GS 2/3/9-17: 2011 / IS 15279: 2003 (RA 2008)	0.005 % to 0.1 % (m/m)

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c.	Refined Sugar	Sulphated Ash	IS 15279: 2003 (RA 2008)	0.02 % to 0.1 % (m/m)
		Copper	ICUMSA GS 2/3-29	1 mg/kg to 5 mg/kg
		Iron	ICUMSA GS 2/3/7/8-31	1 mg/kg to 5 mg/kg
	Molasses	Total Reducing Sugar / Reducing Sugar	GAFTA 130: 2003) ICUMSA GS 4/3-7(2011), ICUMSA GS 4/3-9: 2011	30 % to 60 % (m/m)
		Sucrose	GAFTA 130 (11:2): 2014	30 % to 40 % (m/m)
		Refractometric Dry Substance (RDS %)	ICUMSA GS 4 /3/8- 13: 2009)	70 % to 90 %(m/m)
		Apparent Dry Substance	ICUMSA GS 4-15: 1994)	70 % to 90 %(m/m)
		Sulphated Ash	ICUMSA GS1/3/4/7/8-11: 2000)	2.0 % to 20.0 % (m/m)
		Moisture	GAFTA 130(2:4): 2014	15 % to 30 % (m/m)
d.	Jaggery (Gur)	Sucrose	IS 1152: 2003 (RA 2008) IS 15279: 2003 (RA 2008)	70 % to 90 % (m/m)
		Reducing Sugar	IS 5982: 2003 (RA 2008) IS 15279: 2003 (RA 2008)	5 % to 25 % (m/m)
		Moisture	IS 5982: 2003 (RA 2008) IS 15279: 2003 (RA 2008)	5 % to 15 % (m/m)
		Water Insoluble Matter	IS 5982: 2003 (RA 2008)	0.5 % to 4 % (m/m)
		Sulphated Ash	IS 1679 (RA 1999)	1 % to 6 %(m/m)

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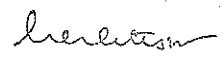
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	Jaggery (Gur)	Sulphur Dioxide	IS 5982: 2003 (RA 2008) IS 15279: 2003 (RA 2008)	10 mg/kg to 100 mg/kg
6.	Sugar And Confectionary & Dairy Product	Pesticide Residue		
		Iron (Fe)	RCAL/MUM/RESIDUES-WI/06 Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Molybdenum (Mo)		10 ug/kg to 1000 ug/kg
		Lead (Pb)		10 ug/kg to 1000 ug/kg
		Zinc(Zn)	RCAL/MUM /RESIDUES-SOP/02	10 ug/kg to 1000 ug/kg
		Copper (CU)		10 ug/kg to 1000 ug/kg
		Arsenic (As)	Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Mercury (Hg)		10 ug/kg to 1000 ug/kg
		Cadmium (Cd)		10 ug/kg to 1000 ug/kg
7.	Oil Seeds & By Products	Moisture	IS 3579: 1966 (RA 2006) / AOCS Ab 2-49: 1997 / Ai-2-75 / Ac 2-41 / ISO 665: 2000	4 % to 12 % (m/m)
		Oil Content	IS 3579: 1966 (RA 2006) / FOSFA: 2005	15 % to 65 % (m/m)
		FFA of Extracted Oil	IS 3579: 1966 (RA 2006)	0.2 % to 10 % (m/m)
		Aflatoxin (TLC)	IS 13427: 1992 (RA 2008) / ISO 6651: 1987 /	< 10 ug/kg (Limit test)
		Aflatoxin (HPLC)	AOAC (19 th Edition) 990.33: 2012	0.5 ug/kg to 50 ug/kg


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8.	Oil Seeds & By Products	Foreign Matter	IS 3579: 1966 (RA 2006)	0.1 % to 10 % (m/m)
		Refractions	IS 3579: 1966 (RA 2006)	0.1 % to 10 % (m/m)
		Admixture	IS 3579: 1966 (RA 2006)	0.1 % to 10 % (m/m)
		Counts / Ounce Avoirdupois	FOSFA: 2010)	30 to 150
		Moisture & Volatile Matter	AOCS Ca 2c-25: 1997 IS 548: 1964 (RA 2006) ISO 662: 1998	0.01 % to 0.5 % (m/m)
	Oils, Fats & Related Products	Free Fatty Acid (FFA)	AOCS Ca 5a-40: 1997 IS 548: 1964 (RA 2006) ISO-660: 1996	0.02 % to 10.0 % (m/m)
		Saponification Value	AOCS Cd 3-25: 1997 / ASTM D 9493 / IS 548: 1964 (RA 2006)	(150 mg to 260 mg) KOH/g
		Unsaponification Value	IS 548: 1964 (RA 2006) AOCS Ca 6b-53: 1997	0.3 % to 5 % (m/m)
		Iodine Value	IS 548: 1964 (RA 2006) AOCS Cd 1d-92: 1997 ISO 3961: 1996 / IP 84: 93	2 to 150
		Refractive Index	AOCS Cc 7-25: 1997 / IS 548: 1964 (RA 2006)	1.300 to 1.700
		Specific Gravity	AOCS To 1 b-64 /	0.8000 to 1.0000
		Density	IS 548: 1964 (RA 2006) AOCS Cc 10c-95: 1997 / ISO 6883: 200	0.8000 to 1.0000 g/ml

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	Oils, Fats & Related Products	Colour	IS 548: 1964 (RA 2006) AOCS Cc 13e-92: 1997 ISO 15305: 1998)	0.1 R to 10 R 1 Y to 50 Y
		Hydroxyl Value / Acetyl Value	AOCS Cd 4-40: 1999 / IS 548: 1964 (RA 2010)	(150 mg to 170 mg) KOH/g
		Viscosity (Brookfield)	AOCS Ja 10-87: 1997)	6.3 cst to 10 cst
		Insoluble Impurities	AOCS Ca 3a-46: 1997) IS 548: 1964 (RA 2010) ISO 663: 2000)	0.005 % to 0.5 % (m/m)
		Acid Value	IS 548: 1964 (RA 2010) / AOCS Cd 3d-63: 1997 / ISO 660: 1996)	(0.04 mg to 20 mg) KOH/g
		Peroxide Value	AOCS Cd 8-53: 2003) IS 548: 1964 (RA 2010) ISO 3960: 2001)	0.5 meq/kg to 15 meq/kg
		Flash Point	AOCS Cc 9c-95: 1997 ISO 15267: 1998)	120 °C to 300 °C
		Lecithin (As P And Phosphatide)	AOCS Ca 12-55: 1997	20 mg/kg to 300 mg/kg
		Cloud Point	AOCS Cc 6-25: 1997	5 °C to 25 °C
		Melting Point / Slip Point	IS 548: 1964 (RA 2010) AOCS Cc 1-25: 1997 / AOCS Cc 3-25: 1997 / ISO 6321: 2002)	15 °C to 45 °C
		Titer	AOCS Cc 12-59: 1997	25 °C to 45 °C

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	Oils, Fats & Related Products	Fatty Acid Composition	AOCS Ce-1e-91 / AOCS Ce-2-66/ IS 548 (Part 3) / (RA 2009) ISO 5508 ISO / 5509	0.05 % to 95.0 % (m/m)
		Determination of Carotene In Vegetable Oil	BS 684 Sec 2.20: 1977	300 mg/kg to 600 mg/kg
		Break Test	AOCS Ca 10-40	0.01 % to 0.2 % (m/m)
		Cold Test	AOCS Cc 11-53	Qualitative
		Conjugated Dienoic Acid	AOCS Ti 1a-64	25 % to 35 % (m/m)
		Purity Tests Puritytests . (Baudouin, Halphen, Hexabromide , Argemone, Hydrocynaic Acid, Mineral Oil, Bellier Turbidity, Castor Oil	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
9.	Spices And Condiments	Moisture (Water)	IS 1797: 1985 (RA 2009) AOAC (19 th Edition)	4 % to 15 % (v/m)
		Refractions Such As Foreign Matter, Filth Etc.	IS 1797: 1985 (RA 2009) AOAC (19 th Edition)	0.1 % to 10 % (m/m)
		T/ Ash, W/S/ Ash, Acid Insoluble Ash	IS 1797: 1985 (RA 2009) AOAC (19 th Edition)	1 % to 10 % (m/m)
		Alcohol Extract, Water Extract, Non Volatile Ether Extract	IS 1797: 1985 (RA 2009) AOAC (19 th Edition)	1 % to 15 % (m/m)

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	Spices And Condiments	Volatile Oil	IS 1797: 1985 (RA 2009) AOAC (19 th Edition)	0.25 % to 10.0 %(v/m)
		Curcumin Content In Turmeric	IS 3576: 2010 (RA 2003) / IS 10925: 1984 (RA 2007)	0.5 % to 5 % (m/m)
		Determination Of Colour Value In Chilli Powder / Chilli Oleoresin	IS 13663: 1993 (RA 2012)	1000 to 20000
		Capsaicin	AOAC (19 th Edition 995.03 (HPLC) 2012	100 mg/kg to 1000 mg/kg
10.	Species And Spice Products	Pesticide Residue		
		Cadmium	RCAL/MUM/RESIDUES-WI/06 Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Iron (Fe)	RCAL/MUM /RESIDUES-SOP/02	10 ug/kg to 1000 ug/kg
		Molybdenum (Mo)	Issue Dated. 2015 Rev. 0	10 ug/kg to 1000 ug/kg
		Lead (Pb)		10 ug/kg to 1000 ug/kg
		Zinc(Zn)		10 ug/kg to 1000 ug/kg
		Copper (CU)		10 ug/kg to 1000 ug/kg
		Arsenic (As)		10 ug/kg to 1000 ug/kg
		Mercury (Hg)		10 ug/kg to 1000 ug/kg

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11.	Milk Powder, (Whole Skimmed, Partially, Skimmed) Milk Cereal Based Weaning Food, Infant Milk Food, Infant Formula	Moisture	IS 11623: 2008) / AOAC (19 th Edition) 990.20: 2012	3 % to 10 % (m/m)
		Milk Fat	IS 11721: 2005/ ISO-1736: 1985) AOAC (19 th Edition) 989.05: 2012	0.5 % to 30 % (m/m)
		Total Ash	IS 1479: 1960 (RA 2009) / IS 1165: 2002 (RA 2009) AOAC (19 th Edition) 945.46: 2012 IS 14433: 2007	1 % to 10 % (m/m)
		Titratable Acidity As Lactic Acid	IS 11765: 1986 (RA 2003) / IS 1165: 2002 (RA 2007) / ISO-6091: 1980 / IS 11766: 1986 (Reconfirmed 2003) ISO-6092: 1980 AOAC (19 th Edition) 947.05: 2012	5 to 20 (ml/g) 0.1 % to 2 % (m/m)
		Protein	IS 1479: 1960 (RA 2009) IS 7219: 1973 (RA 2005) AOAC (19 th Edition)	7 % to 35 % (m/m)
		Lactose	IS 1479: 1960 (RA 2009)	10 % to 55 % (m/m)
		Solid Not Fat (SNF)	IS 11766: 1986 (RA 2013)	60 to 95
		Ash Insoluble In Hcl	IS 14433: 2007	0.01 to 3.0 m/m
		Insolubility Index	IS 12759: 1989 (RA 2010)	0.1 % to 3.0 % m/m

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a.	Liquid Milk	Preservative In Milk (Formalin In Milk, Hydrogen Peroxide, Boricacid, & Borate, Salicylic Acid)	FSSAI Manual of Methods	Qualitative (Present/Absent)
		Detection of Neutralizer In Milk (Rosalic Acid Alkalinity of Ash)	FSSAI Manual of Methods	Qualitative (Present/Absent)
b.	Adulteration In Milk	Added Starch	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative (Present/Absent)
		Detection of Added Urea	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative (Present/Absent)
		Detergent (Alkyl Benzene Sulphonic Acid)	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative (Present/Absent)
		Added Formaldehyde	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative (Present/Absent)
		Sodium Chloride	IS 1479 (Part 2): 1960 (RA 2003)	Qualitative (Present/Absent)
		Ammonium Sulphate	FSSAI Manual of Methods	Qualitative (Present/Absent)
c.	Starch	Moisture	IS 4706: 1978 (RA 2005)	5 % to 14 % (m/m)
		Ash	IS 4706: 1978 (RA 2005)	0.2 % to 0.6 % (m/m)
		Acid Insoluble Ash	IS 4706: 1978 (RA 2005)	0.1 % to 0.3 % (m/m)


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12.	Starch	Starch	IS 4706: 1978 (RA 2005)	95 % to 98 % (m/m)
		Ph	IS 4706: 1978 (RA 2005)	4.5 to 7.0
		Protein	IS 4706: 1978 (RA 2005)	0.1 % to 1.0 % (m/m)
		Crude Fibre	IS 4706: 1978 (RA 2005)	0.2 % to 0.5 % (m/m)
		Alcoholic Acidity	IS 4706: 1978 (RA 2005)	0.025 % to 0.05 % (m/m)
		Chloride	IS 4706: 1978 (RA 2005)	0.002 % to 0.01 % (m/m)
	Bakery And Confectionery Products (Biscuits)	Moisture	IS 12711: 1989 (RA 2005)	1 % to 8 % (m/m)
		Total Ash	IS 12711: 1989 (RA 2005)	2 % to 3 % (m/m)
		Acid Insoluble Ash	IS 12711: 1989 (RA 2005)	0.01 % to 0.1 % (m/m)
		Fat	IS 12711: 1989 (RA 2005)	10 % to 25 % (m/m)
		Acidity of Extracted Fat	IS 12711: 1989 (RA 2005)	0.1 % to 1 % (m/m)
		Ph of Aqueous Extract	IS 12711: 1989 (RA 2005)	3 % to 7 % (m/m)
		Crude Fibre	IS 12711: 1989 (RA 2005)	0.1 % to 2 % (m/m)
		Alcoholic Acidity	IS 12711: 1989 (RA 2005)	0.1 % to 0.2 % (m/m)
		Protein	IS 7219: 1973 (RA 2005)	5 % to 15 % (m/m)

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13.	Nutritional Value In Ready To Eat Foods/Bakery, Confectionery Products	Protein	IS 7219 (RA 2005)	1 % to 50 %
		Fat	RCAL/Mum/WI 99(1) Issue Dated. 12.11.2015, Rev. 0	1 % to 50 %
		Carbohydrate	IS 2234: 1989	1 % to 80 %
		Dietary Fibre	IS 11062 : 1984	1 % to 50 %
		Saturated Fat	IS 548 (Part 3) (RA 2006)	1 % to 20 %
		Monosaturated Fat	IS 548 (Part 3) (RA 2006)	1 % to 20 %
		Poly Unsaturated Fat	IS 548 (Part 3) (RA 2006)	1 % to 20 %
		Sodium	RCAL/Mum/WI 99(2) Issue Dated. 12.11.2015 Rev. 0	0.1 % to 1.0 %
		Iron	RCAL/Mum/WI 99(3) Issue Dated. 12.11.2015 Rev. 0	0.1 % to 1.0 %
		Calcium	RCAL/Mum/WI 99(4) Issue Dated. 12.11.2015 Rev. 0	0.1 % to 1.0 %
14.	Honey And Honey Products	Acidity	AOAC (19 th Edition) 962: 2012	10 meq/kg to 30 meq/kg
		Color	AOAC 985. 19 th Edition). 2012	Light amber to amber (Qualitative)
		Fructose/Glucose Ratio	IS 4941 RA 2002	0.9 to 1.5

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15.	Honey And Honey Products	Mineral Substances As Ash	AOAC 920.181 19 th Edition). 2012	0.1 % to 0.5 % (m/m)
		Moisture	AOAC 969.38 19 th Edition). 2012	2 % to 20 % (m/m)
		Reducing Sugar	AOAC 920.183 19 th Edition). 2012	65 % to 75 % (m/m)
		Specific Gravity	AOCS-To 1b 64 2012	1.37 to 1.39
		Sucrose	AOAC 920.184 19 th Edition). 2012	1 % to 5 % (m/m)
	Fish & Fishery Products (Fish Meal / Fish Oil)	Ash	GAFTA-130 (11.0) 2014	15 to 25 (m/m)
		pH of 1 % Or 10 % Aqueous Solution	RCAL/MUM/WI86 Issue Dated. 12.08.2013 Rev. 0	6 to 7
		Sulphite	AOAC (19 th Edition) 961.09: 2012	Qualitative
		Total Phosphate (As P ₂ O ₅)	AOAC (19 th Edition) 964.06: 2012	1.5 % to 3.5 % (m/m)
		Protein	GAFTA 130 (4:1): 2014	50 % to 65 % (m/m)
		Moisture	GAFTA 130 (2:1): 2014	4 % to 10 % / 0.1 % to 0.5 %
		Fat	GAFTA 130 (3:0): 2014	7 % to 12 % (m/m)
		Salt	AOAC (19 th Edition) 937.09: 2012	0.5 % to 1.5 % (m/m)

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	Fish & Fishery Products (Fish Meal / Fish Oil)	Sand	GAFTA 13 (12.0) 2014	0.5 % to 2.5 %(m/m)
		TVN	RCAL/Mum/WI 96 Issue Dated. 20.09.2014 Rev. 0	(100 mgN to 400 mgN) /100g
		FFA	AOCS Ca-5a-40	1 % to 12 %(m/m)
		Histamine	RCAL/Mum/WI 97 Issue Dated. 22.10.2015 Rev. 0	50 mg/kg to 500 mg/kg
		Melamine	RCAL/Mum/WI 98 Issue Dated. 20.10.2015 Rev. 0	0.5 mg/kg to 2 mg/kg
		Antioxidant-Ethoxyquine	AOAC 996.13	50 mg/kg to 500 mg/kg
		Impurities	AOCS Ca-3a-46	0.05 % to 0.25 %(m/m)
		Iodine Value	AOCS Cd-1d-92	150 to 170
		EPA / DHA	AOCS Ce 1b-89	20 % to 25 % (m/m)
		Unsaponifiable Matter	AOCS Ca-6b-53	0.5 % to 2.5 % (m/m)
		Acid Value	AOCS Cd-3d-63	(2 mg to 24 mg) KOH/g
		Peroxide Value	AOCS Cd-8-83	1 meq/kg to 5 meq/kg

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II. FERTILIZERS				
1	Nitrogenous Fertilizers & Npk Fertilizers	Moisture (Oven And Vacuum Oven)	AOAC (19 th Edition) 950.01 & 965.08: 2012/ IS 6092: 1985 (RA 2000) FCO	0.5 % to 12.0 %
		Moisture (Karl Fischer)	AOAC (19 th Edition) 972.01: 2012 / IS 6092: 1985 (RA 2000),FCO	0.5 % to 12.0 %
		Total Nitrogen	AOAC (19 th Edition) 978.02: 2012 / IS 6092: 2004 ISO 5315, FCO	4.0 % to 48.0 %
2.	Phosphatic Fertilizers & Npk Fertilizers	T/P ₂ O ₅ (Gravimetry)	AOAC (19 th Edition) 962.02: 2012 / IS 6092: 2004 (RA 2006) / ISO 6598,FCO	5.0 % to 55.0 %
3.	Potash Fertilizers & Npk Fertilizers	Potassium As (K ₂ O)	Flame Photometry / IS 6092: 1985 (RA 2001) FCO	0.5 % to 65.0 %
4.	Zinc Sulphate	Zinc	FCO: 1985 Part B, Sr. no. 7) IS 8249: 1994 (RA 2006)	25.0 % to 35.0 %
III. ORES & MINERAL				
1	Iron Ore	Silica	IS 1493 (Part 1): 1981 (RA 2006)	0.5 % to 20.0 %
		Iron Oxide	IS 1493 (Part 1): 1981 (RA 2006)	55.0 % to 95.0 %

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2.	Iron Ore	Phosphorous	IS 1493 (Part 1): 1981 (RA 2006)	0.1 % to 0.2 %
		Sulphur	IS 1493 (Part 1): 1981 (RA 2006)	0.1 % to 0.2 %
		Alumina	IS 1493 (Part 1): 1981 (RA 2006)	1.0 % to 8.0 % 2.0
	Bauxite	Loss On Ignition	IS 2000 (Part 1): 1985 (RA 2006)	5.0 % to 30.0 %
		Silica	IS 2000 (Part 2): 1985 (RA 2006)	0.5 % to 5.0 % 5.0 % to 10.0 %
		Alumina	IS 2000 (Part 3): 1985 (RA 2006)	12.0 % to 90.0 %
3.	Lime Stone & Dolomite	Iron Oxide	IS 2000 (Part 4): 1985 (RA 2006)	5.0 % to 40.0 %
		Titanium	IS 2000 (Part 5): 1985 (RA 2006)	0.5 % to 2.0 % 2.0 % to 6.0 %
		Loss on Ignition	IS 1760 (Part 1): 1991 (RA 2006)	15.0 % to 43.0 %
		Silica	IS 1760 (Part 2): 1991 (RA 2006)	0.5 % to 3.0 % 3.0 % to 25.0 %
		Alumina	IS 1760 (Part 3): 1991 (RA 2006)	0.5 % to 5.0 %
		Lime as Cao	IS 1760 (Part 3): 1991 (RA 2006)	20.0 % to 55.0 %

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	Lime Stone & Dolomite	Magnesium as MgO	IS 1760 (Part 3): 1991 (RA 2006)	0.5 % to 35.0 %
		Iron Oxide	IS 1760 (Part 3): 1991 (RA 2006)	0.5 % to 2.0 % 2.0 % to 5.0 %
IV.	WATER			
1.	Packaged Drinking Water, Packaged Natural Mineral Water, Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	10 mg/l to 500 mg/l as CaCO ₃
		Conductivity	IS 3025 (Part 14): 1984 (RA 2006)	5 mohs to 500 mohs
		Sulphites	IS 3025 (Part 28): 1986 (RA 2003)	1 mg/l to 20 mg/l
		Oil And Grease	IS 3025 (Part 39): 1991 (RA 2003)	0 mg/l to 20 mg/l
		Phosphorous	IS 3025 (Part 31): 1988 (RA 1999)	0.2 mg/l to 5 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986 (RA 2009)	0.1 mg/l to 50 mg/l
		Phenolic Compound	IS 3025 (Part 43) : 1992 (RA 2009)	0.01 mg/l to 1 mg/l
		Anionic Surface Active Agents As MBAS	IS 13428: 2005 (RA 2009) Annexure K	0.1 mg/l to 0.5 mg/l

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	Packaged Drinking Water, Packaged Natural Mineral Water, Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Aluminum As Al	IS 3025 (Part 55): 2003 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 0.3 mg/l
		Ammonia (As Total Amine-N)	IS 3025 (Part 34)	0.2 mg/l to 10 mg/l
		Barium As Ba	IS 13428: 2005 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009) Annexure F IS 15302: 2003 (RA 2009)	0.01 mg/l to 2 mg/l
		Boron	IS 3025 (Part 57) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 5 mg/l
		Calcium	IS 3025 (Part 40): 1991	1 mg/l to 500 mg/l
		Chloramine as Cl ₂	IS 3025 (Part 26) : 1986 (RA 2009)	1 mg/l to 10 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.1 mg/l to 5 mg/l
		Fluoride	IS 3025 (Part 60): 2008	0.1 mg/l to 5 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.10 mg/l to 5 mg/l

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	Packaged Drinking Water, Packaged Natural Mineral Water, Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Antimony as Sb	IS13428 or IS 15303 IS 3025 (Part 2): 2004 (RA 2009) Annexure G	0.002 mg/l to 0.5 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	1 mg/l to 100 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006 (RA 2012) IS 3025 (Part 2): 2004 (RA 2009)	0.10 mg/l to 1 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34): 1998 (RA 2009)	1 mg/l to 100 mg/l
		Nitrite as NO ₂	IS 3025 (Part 34): 1998 (RA 2009)	1 mg/l to 100 mg/l
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 2009) IS 15303: 2003 (RA 2009)	0.01 mg/l to 1 mg/l
		Silver as Ag	IS 13428 Annexure J	0.01 mg/l to 1 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2009)	1.0 mg/l to 100 mg/l
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009). IS 3025 (Part 2): 2004 (RA 2009)	0.1 mg/l to 15 mg/l

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	Packaged Drinking Water, Packaged Natural Mineral Water, Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Cadmium as Cd	IS 3025 (Part 41): 2003 (RA2009) IS 3025 (Part 2): 2004 (RA 2009)	0.02 mg/l to 0.3 mg/l
		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 0.1 mg/l
		Mercury as Hg	IS 3025 (Part 48) (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 0.1 mg/l
		Molybdenum	IS 3025 (Part 2): 2004 (RA 2009)	0.05 mg/l to 0.5 mg/l
		Nickel as Ni	IS 3025 (Part 54): 1986 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 0.1 mg/l
		Arsenic as As	IS 3025 (Part 37): 1988 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.01 mg/l to 0.05 mg/l
		Total Chromium as Cr	IS 3025 (Part 52): 1988 (RA 2009) IS 3025 (Part 2): 2004 (RA 2009)	0.03 mg/l to 0.2 mg/l
		Bromoform	APHA 6232	0.04 mg/l to 1 mg/l
		Chloroform	APHA 6232	0.05 mg/l to 1 mg/l

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	Packaged Drinking Water,	Dibromochloromethane	APHA 6232	0.05 mg/l to 1 mg/l
	Packaged Natural Mineral Water,	Bromodichloromethane	APHA 6232	0.05 mg/l to 1 mg/l
	Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Poly Chlorinated Biphenyl (PCB)	USEPA 8082A,	0.10 ug/l to 100 ug/l
		Polynuclear Aromatic Hydrocarbon As PAH	APHA-6440	0.1 ug/l to 100 ug/l
		Pesticide Residue		
		2, 4 DDT	USEPA 525.2 / 508/AOAC 990.06	0.02 ug/l to 100 ug/l
		4, 4 DDT	USEPA 525.2 / 508/ AOAC 990.06	0.02 ug/l to 100 ug/l
		2, 4 DDD	USEPA 525.2 / 508/ AOAC 990.06	0.02 ug/l to 100 ug/l
		4, 4 DDE	USEPA 525.2 / 508/ AOAC 990.06	0.02 ug/l to 100 ug/l
		2, 4 DDE	USEPA 525.2 / 508/ AOAC 990.06	0.02 ug/l to 100 ug/l
		4,4 DDD	USEPA 525.2 / 508/ AOAC 990.06	0.02 ug/l to 100 ug/l
		Γ - HCH (Lindane)	USEPA 525.2 / 508	0.02 ug/l to 100 ug/l
		A-HCH	USEPA 525.2 / 508	0.02 ug/l to 100 ug/l
		B - HCH	USEPA 525.2 / 508	0.01 ug/l to 100 ug/l


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	Packaged Drinking Water, Packaged Natural Mineral Water, Drinking Water, Water For Swimming Pool (Potable And Domestic/ Raw & Bore Water)	Δ - HCH	USEPA 525.2 / 508	0.02 ug/l to 100 ug/l
		Endosulfan	USEPA 525.2 / 508	0.02 ug/l to 100 ug/l
		Monocrotophos	USEPA 525.2 / 8141A	0.05 ug/l to 100 ug/l
		Ethion	USEPA 525.2 / 1657A	0.02 ug/l to 100 ug/l
		Chloropyrifos	USEPA 525.2 / 8141A	0.02 ug/l to 100 ug/l
		Phorate	USEPA 525.2 / 8141A	0.02 ug/l to 100 ug/l
		2, 4-D	USEPA 515.3	20 ug/l to 100 ug/l
		Butachlor	USEPA 525.2 / 8141A	0.2 ug/l to 100 ug/l
		Isoproturon	USEPA 532	0.02 ug/l to 100 ug/l
		Alachlor	USEPA 525.2 / 507	0.3 ug/l to 100 ug/l
		Atrazine	USEPA 525.2	0.4 ug/l to 100 ug/l
		Methyl Parathion	USEPA 525.2	0.05 ug/l to 100 ug/l
		Malathion	USEPA 525.2	0.05 ug/l to 100ug/l
		Aldrin/Dieldrin	USEPA 525.2	0.02 ug/l to 100 ug/l

V. COAL, COKE & OTHER SOLID FUELS

1.	Coal, Coke & Other Solid Fuels	Proximate Analysis (Air Dry Basis) Moisture	IS 1350 (Part 1): 1984	0.5 % to 20.0 %
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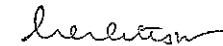
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	Coal, Coke & Other Solid Fuels	Ash	IS 1350 (Part 1): 1984 ISO 1171(2010-06-15)	5.0 % to 30.0 %
		Volatile Matter	IS 1350 (Part 1): 1984	0.1 % to 40.0 %
		Fixed Carbon	IS 1350 (Part 1): 1984 ISO 17246: (2010-06-15)	0.1 to 40.0
		Gross Calorific Value	IS 1350 (Part 2): 1970 (RA 1994) ASTM D 5865-10a	2500 kcal/g 8000 kcal/g
		Sulphur	IS 1350 (Part 3): 1969 (RA 1994)	0.1 % to 1.0 %
		Proximate Analysis (Air Dry Basis) Moisture	IS 1350 (Part 1): 1984 ISO 589: (2008-11-01) ASTM D 3173: 2003 (Reapproved -2008) ISO 11722: (1999-05-01)	0.5 % to 20 % (m/m)
		Ash	IS 1350 (Part 1): 1984 ISO 1171: (2010-06-15)	5.0 % to 30 % (m/m)
		Volatile Matter	IS 1350 (Part 1): 1984 ASTM D 3175: (2007) ISO 562: (2010-06-15)	0.1 % to 40 % (m/m)
		Fixed Carbon	IS 1350 (Part 1): 1984 ISO 17246: (2010-06-15)	By calculation
		Gross Calorific Value	IS 1350 (Part 2): 1970 (RA 1994) ASTM D 5865-10a	2500 kcal/g to 8000 kcal/g


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Convenor


N. Venkateswaran
Program Manager



NABL

SCOPE OF ACCREDITATION

Laboratory RCA Laboratories, 501/502/522 & 213, Milan Industrial Estate,
Abhudaya Nagar, Cotton Green, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 31.01.2016

Certificate Number T-0755 Valid Until 30.01.2018

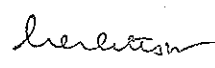
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Coal, Coke & Other Solid Fuels	Sulphur	IS 1350 (Part 3): 1969 (RA 1994)	0.1 % to 1.0 %(m/m)

-X-X-X-X-X-X-X-X-X-X-X-X-

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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