

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 1 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

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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BIOLOGICAL TESTING

I.	WATER			
1.	Raw water	Total Coliforms (MPN)	IS 1622:1981(Reaffirmed 2009) Amendment 4	1 MPN/100ml and above
		Faecal coliform (MPN)		
		E. coli (MPN)		
2.	Packaged Drinking Water	E. coli (Detection)	IS 15185:2016/ ISO 9308-1:2014	Present or Absent/ 100 ml or 250 ml
		Coliform (Detection)	IS 15185:2016/ ISO 9308-1:2014	Present or Absent/ 100 ml or 250 ml
		Faecal streptococci (Detection)	IS 15186:2002(Reaffirmed 2009) / ISO7899-2:2002	Present or Absent / 250 ml
		S.aureus (Detection)	IS 5887 (Part 8 /sec 1):2002 (Reaffirmed 2012) Amendment 1	Present or Absent / 250 ml
		Sulphite Reducing Anaerobes (Detection)	IS 13428-2005 Annex C (Reaffirmed 2014) Amendment 4	Present or Absent / 50 ml
		Pseudomonas aeruginosa (Detection)	IS 13428-2005 Annex D (Reaffirmed 2014) Amendment 4	Present or Absent / 250 ml
		Aerobic Microbial Count 37°C and 22°C	IS 5402-2012/ ISO 4833:2003	1 CFU/ ml and above
		Yeast and mould (Detection)	IS 5403:1999 (Reaffirmed 2009)	Present or Absent / 250 ml
		Salmonella (Detection)	IS 15187:2016/ ISO19250:2010	Present or Absent / 250 ml
		Shigella (Detection)	IS 5887 (Part 7):1999 (Reaffirmed 2009)	Present or Absent / 250 ml
		V. cholerae (Detection)	IS 5887 (Part 5):1976 (Reaffirmed 2009)	Present or Absent / 250 ml

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 2 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		V. parahaemolyticus (Detection)	IS 5887 (Part 5):1976 (Reaffirmed 2009)	Present or Absent / 250 ml
3.	Packaged Natural Mineral Water	E. coli (Detection)	IS 15185:2016/	Present or Absent / 250 ml
		Coliform (Detection)	IS 15185:2016/	Present or Absent / 250 ml
		Faecal streptococci (Detection)	IS 15186:2002(Reaffirmed 2009)	Present or Absent / 250 ml
		S.aureus (Detection)	IS 5887 (Part 8 /sec 1):2002 (Reaffirmed 2012) Amendment 1	Present or Absent / 250 ml
		Sulphite Reducing Anaerobes (Detection)	IS 13428-2005 Annex C (Reaffirmed 2014) Amendment 4	Present or Absent / 250 ml
		Pseudomonas aeruginosa (Detection)	IS 13428-2005 Annex D (Reaffirmed 2014) Amendment 4	Present or Absent / 250 ml
		Yeast and mould (Detection)	IS 5403:1999 (Reaffirmed 2009)	Present or Absent / 250 ml
		Salmonella (Detection)	IS 15187:2016/ ISO19250:2010	Present or Absent / 250 ml
		V. cholerae (Detection)	IS 5887 (Part 5):1976 (Reaffirmed 2009)	Present or Absent / 250 ml
		V. parahaemolyticus (Detection)	IS 5887 (Part 5):1976 (Reaffirmed 2009)	Present or Absent / 250 ml
4.	Process Water	Coliform (MPN)	IS 1622:1981(Reaffirmed 2009) Amendment 4	1 MPN/100ml and above
		Standard Plate count	IS 1622:1981(Reaffirmed 2009) Amendment 4	1 CFU/ ml and above
		Thermophilic Bacteria (Detection)	IS 4251:1967 (Reaffirmed 2009) Amendment 2	Present or Absent /ml
		Lipolytic Organism (Enumeration)	IS 4251:1967 (Reaffirmed 2009) Amendment 2	1 CFU/ ml and above
		Proteolytic Organism (Enumeration)	IS 4251:1967 (Reaffirmed 2009) Amendment 2	1 CFU/ ml and above

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 3 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Sweets and confectionary	Total Plate Count	IS 5402-2012 / ISO 4833:2003	1 CFU/ml and above 10 CFU/g and above
		Coliforms (Enumeration)	IS 5401 (Part 1):2012 (Reaffirmed 2012) ISO 4832:2006	1 CFU/ml and above 10 CFU/g and above
		Yeast & Mold Count	IS 5403:1999 (Reaffirmed 2009)	1 CFU/ml and above 10 CFU/g and above
		Escherichia coli (Detection)	IS 5887 (Part I):1976 (Reaffirmed 2009)	Present or Absent / 25g or ml
		Salmonella (Detection)	IS 5887 (Part 3):1999 (Reaffirmed 2009) ISO 6579:1993	Present or Absent / 25 g or ml
		Staphylococcus aureus (Detection)	IS 5887 (Part 8/ Sec 1):2002 (Reaffirmed 2012) Amendment 1	Present or Absent / 25 g or ml
2.	Non-alcoholic beverages	Total Plate Count	IS 5402-2012 / ISO 4833:2003	1 CFU/ml and above 10 CFU/g and above
		Yeast & Mould Count	IS 5403:1999 (Reaffirmed 2009)	1 CFU/ml and above 10 CFU/g and above
		Coliforms (Estimation) by MPN	IS 5401 (Part 2):2012 ISO 4831:2006	Present or Absent /100 ml
3.	Spices	Salmonella (Detection)	IS 5887 (Part 3):1999 (Reaffirmed 2009) ISO 6579:1993	Present or Absent / 25 g
4.	Fruit and Vegetable Product	Total Plate Count	IS 5402-2012 / ISO 4833:2003	1 CFU/ml and above 10 CFU/g and above
		Coliforms (Enumeration)	IS 5401 (Part 1):2002 (Reaffirmed 2007) ISO 4832:2006	1 CFU/ml and above 10 CFU/g and above
		Yeast & Mold Count	IS 5403:1999 (Reaffirmed 2009)	1 CFU/ml and above 10 CFU/g and above
		Escherichia coli (Detection)	IS 5887 (Part I):1976 (Reaffirmed 2009)	Present or Absent / g or ml

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 4 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Staphylococcus aureus (Detection)	IS 5887 (Part 8/ Sec 1):2002 (Reaffirmed 2012) Amendment 1	Present or Absent / g or ml
		Shigella (Detection)	IS 5887 (Part 7)-1999 (Reaffirmed 2009)	Present or Absent / 25 g or ml
		Salmonella (Detection)	IS 5887 (Part 3):1999 (Reaffirmed 2009) ISO 6579:1993	Present or Absent / 25 g or ml
		Vibrio parahaemolyticus (Detection)	IS 5887(Part 5)1976 (Reaffirmed 2009)	Present or Absent / 25 g or ml
		Faecal Streptococci (Detection)	IS 5887 (Part 2):1976 (Reaffirmed 2009)	Present or Absent / 25 g or ml
		Vibrio cholerae (Detection)	IS 5887(Part 5)1976 (Reaffirmed 2009)	Present or Absent / 25 g or ml
5.	Cereals, Pulses & Cereal Products (Cereals, food grains, Husks, Flours, Starchy foods and Bakery products)	Total Plate Count	IS 5402-2012 / ISO 4833:2003	1 CFU/ml and above 10 CFU/g and above
		Coliforms (Enumeration) by Pour plate	IS 5401 (Part 1):2002 (Reaffirmed 2007) ISO 4832:2006	1 CFU/ml and above 10 CFU/g and above
		Yeast and mold count	IS 5403:1999 (Reaffirmed 2009)	1 CFU/ml and above 10 CFU/g and above
		E. coli (Detection)	IS 5887 (Part 1):1976 (Reaffirmed 2009)	Present or Absent / g or ml
		Vibrio cholerae (Detection)	IS 5887(Part 5)1976 (Reaffirmed 2009)	Present or Absent / 25 g or ml
		Vibrio parahaemolyticus (Detection)	IS 5887(Part 5)1976 (Reaffirmed 2009)	Present or Absent / 25 g or ml
		Faecal Streptococci (Detection)	IS 5887 (Part 2):1976 (Reaffirmed 2009)	Present or Absent /25 g or ml
		S. aureus (Detection)	IS 5887 (Part 8/ Sec 1):2002 (Reaffirmed 2012) Amendment 1	Present or Absent / 25 g or ml
		Shigella (Detection)	IS 5887 (Part 7)-1999 (Reaffirmed 2009)	Present or Absent / 25 g or ml

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 5 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salmonella (Detection)	IS 5887 (Part 3):1999 (Reaffirmed 2009) ISO 6579:1993	Present or Absent / 25 g or ml
6.	Milk and milk Products	Total Plate Count	IS 5402-2012 / ISO 4833:2003	1 CFU/ml and above 10 CFU/g and above
		Yeast & Mould (Enumeration)	IS 5403:1999 (Reaffirmed 2009)	1 CFU/ml and above 10 CFU/g and above
		Coliforms (Enumeration) by Pour plate	IS 5401 (Part 1):2002 (Reaffirmed 2007) ISO 4832:2006	10 CFU/g and above 1 CFU/ml and above
		E. coli (Detection)	IS 5887 (Part 1):1976 (Reaffirmed 2009)	Present or Absent /per g or ml
		Salmonella (Detection)	IS 5887 (Part 3):1999 (Reaffirmed 2009) ISO 6579:1993	Present or Absent / 25 g or ml
		S. aureus (Enumeration)	IS 5887 (Part 8/Sec 1):2002 (Reaffirmed 2012) Amendment 1 ISO 6888-1:1999	10 CFU/g and above 1 CFU/ml and above

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 6 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

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.	Snacks, Instant Mixes and Convenience Products, Ready to eat products, Farsan	Moisture	IS 2234:1989 RA 2010 IS 12220:1987 RA 2010 IS 12566:1989 RA 2010 IS 13264:1991 RA 2012 IS 13265:1991 RA 2012 IS 13267:1991 RA 2012 IS 13354:1992 RA 2009 IS 3880:1976 RA 2009 IS 1656:2007 RA 2012 IS 2860:1964 RA 2008	0.01% to 98%
		Ash	IS 2234:1989 RA 2010 IS 12220:1987 RA 2010 IS 12566:1989 RA.2010 IS 13264:1991 RA 2012 IS 12566:1989 RA.2010 IS 13267:1991 RA.2012 FSSAI MANUAL 3-2016	0.01% to 40%
		Acid Insoluble ash	IS 2234:1989 RA 2010 IS 12220:1987 RA.2010 IS 12566:1989 RA.2010 IS 13264:1991 RA.2012 IS 12566:1989 RA.2010 IS 13267:1991 RA.2012 FSSAI MANUAL 3-2016	0.01% to 40%
		pH	FSSAI MANUAL-5 2016	1 to 14
		Protein	IS 2234:1989 RA.2010 FSSAI MANUAL 3 2016 IS 7219:1973	0.5% to 90%
		Fat content	IS 12220:1987 RA 2010 IS 12566:1989 RA 2010	0.1 % to 60%

Ashok Kumar
Convenor

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Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 7 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			FSSAI MANUAL 3-2016 IS 13354:1992 RA 2009 IS 13267:1991 RA 2012 IS 12220:1987 RA 2010	
		Carbohydrates	IS 1656:2007 RA 2012	0.5 % to 90%
		Energy Value	IS 13285:1992 RA A2012	10 to 900 kcal/100g
		Added Starch	FSSAI MANUAL-1-2016	Qualitative (Present / Absent)
		Salt as NaCl	FSSAI MANUAL-6 IS 2860:1964RA 2008	0.1 % to 20%
		Reducing sugar	FSSAI MANUAL-1-2016	0.1 % to 60%
		Total Sugar as Sucrose	FSSAI MANUAL-1-2016	0.1 % to 60%
		Rancidity as peroxide value	IS 4684-1975 2 RA 2010	0.1% to 10%
		Acidity as acetic acid	IS 2860:1964 RA .2008 FSSAI MANUAL 5-2016	0.1 % to 10%
2.	Nut and Nut Products, Dry Fruits, Oilseeds	Moisture	IS 3579:1966 RA 2015	0.01 % to 40%
		Ash	IS 4684-1975 RA 2010 FSSAI MANUAL 3-2016	0.01 % to 40%
		Acid Insoluble Ash	IS 4684-1975 RA 2010 FSSAI MANUAL 3-2016	0.01 % to 40%
		Fat/Oil Content	IS 3579:1966 RA 2015 FSSAI MANUAL 3	0.1% to 60%
		Protein	IS 2234:1989 RA 2010 FSSAI MANUAL 3-2016 IS 7219:1973	0.5%to 30%
		Free fatty acids/rancidity/ acidity of extracted fat/ rancidity	IS 548-P-1:1964RA 2015 IS 4684-1975 RA 2010	0.01% to 30%
		Carbohydrate	IS 1656:2007 RA 2012	0.5% to 80%
		Energy Value	IS 13285:1992 RA A2012	10 to 900Kcal/100g
		Physical tests (insect infestation broken damaged discoloured shriveled extraneous	IS 3579:1966 RA 2015 IS 4333:1996 (Part 1) RA 2012	0.1% to 50%

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 8 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		matter stalks, pieces of shells sugared raisins rodent hair, excreta , mould affected		
		Crude Fiber	IS 8212-1976 IS 4684-1975	0.1% to 30%
		Reducing Sugar	FSSAI MANUAL 3-2016	0.5% to 80%
		Total sugar as sucrose	FSSAI MANUAL 3	0.5% to 80%
3.	Fruits, Vegetables and its Products Fresh Raw Dried Frozen Processed Thermally Processed Powders	Moisture/ Total Solids	FSSAI MANUAL 5-2016	0.01% to 98%
		Acidity as Acetic Acid/ Acidity of Cut-Out syrup	IS 2860:1964RA 2008 FSSAI MANUAL 5-2016	0.1% to 10%
		Acidity as citric acid	IS 2860:1964 1 RA 2008 FSSAI MANUAL 5	0.01-1.0 %
		Ash	FSSAI MANUAL 5 IS 3880-1976 RA 2009 IS 4624:1978 RA 2013 IS 3500:1966 RA 2009	0.01% to 40%
		Acid insoluble ash	IS 3880-1976 RA 2009 FSSAI MANUAL 5 IS 3500:1966RA 2009 IS 4624:1978RA 2013	0.01% to 40%
		Total Soluble Solids/ Brix	FSSAI MANUAL 5 IS 2860:1964 1	0.01% to 80%
		Carbohydrates	IS 1656:2007 3 RA 2012 by calculation	0.5% to 80%
		Energy value	IS 13285:1992 RA A2012	10 to 900Kcal/100g
		Reducing Sugar	FSSAI MANUAL 5-2016	0.1% to 20%
		Total sugar as Sucrose	FSSAI MANUAL 5-2016	0.1% to 20%
		Added starch	FSSAI MANUAL 5-2016	Qualitative (Present / Absent)
		Salt	FSSAI MANUAL 5-2016	0.1% to 20%
		Drained weight	IS 12220:1987 RA 2010 FSSAI MANUAL 5 IS 2860:1964 RA 2008	0.1 to 90%

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 9 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fruit juice content	FSSAI MANUAL 5	1% to 80%
		pH	FSSAI MANUAL 5	1 to 14
4.	Milk and milk powder, milk products	Moisture	FSSAI MANUAL-1-2016	0.01% to 98%
		Total solid	FSSAI MANUAL-1	0.01% to 95%
		Milk fat/total fat	IS 1224:PARA T 1:1977 RA 2012	0.01% to 50%
		Protein	IS 2234:1989 RA 2010 FSSAI MANUAL 3-2016 IS 7219:1973	0.5% to 90%
		Carbohydrate	IS 1656:2007 3 RA 2012	0.5% to 80%
		Energy value	IS 13285:1992 RA A2012	10-900Kcal/100g
		Titration acidity	FSSAI MANUAL-1	0.01 % to 5%
		Ash	IS 1165-2002 RA 2013 FSSAI MANUAL-1	0.1 % to 40%
		Acid insoluble ash	FSSAI MANUAL-1 IS 12299:1998 RA 2011	0.01% to 40%
		Added starch	IS 1479:PARA T 1:1960 RA 2012 FSSAI MANUAL-1	Qualitative (Present / Absent)
		Reducing Sugar	IS 1479:PARA T 1:1960 RA 2012 FSSAI MANUAL-1	Qualitative (Present / Absent)
		Total sugar as Sucrose	IS 1479:PARA T 1:1960 RA 2012 FSSAI MANUAL-1	Qualitative (Present / Absent)
		Added formaldehyde	IS 1479:PARA T 2:1961 RA 2013	Qualitative (Present / Absent)
		Urea	IS 1479:PARA T 2:1961 RA 2013	Qualitative (Present / Absent)
		pH	IS 1479:PARA T 1:1960 RA 2013	1 to 14
		Salt	IS 1479:PARA T 2:1961 RA 2013	0.1% to 10%
		Added glucose	FSSAI MANUAL-1	Qualitative (Present / Absent)

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 10 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Carbonates	FSSAI MANUAL-1	Qualitative (Present / Absent)
		Starch	FSSAI MANUAL-1	Qualitative (Present / Absent)
		Neutralizer	FSSAI MANUAL-1	Qualitative (Present / Absent)
5.	Tea, Tea premix, coffee, coffee beans, chocolates and cocoa beans, cocoa products	Moisture/total solid	IS 1164:1986 RA 2012 IS 1163:1992 RA 2009 IS 2791:1992 RA 2009 IS 3077:1992 RA 2011 FSSAI MANUAL-4-2016	0.01% to 40%
		Ash	IS 1164:1986 RA 2012 IS 13854:1994 RA 2009 IS 3077:1992 RA 2011 FSSAI MANUAL-4 IS 3633:2003 RA 2008 IS 15342:2003 RA 2008	0.01% to 40%
		Acid insoluble ash	IS 1164:1986 RA 2012 IS 1163:1992 RA 2009 IS 3077:1992 RA 2011 IS 3633:2003 RA 2008 IS 15342:2003 RA 2008 FSSAI MANUAL-4	0.01% to 5%
		pH	FSSAI MANUAL 5	1 to 14
		Water extract	IS 13862:1999 RA 2009 IS 1163:1992 2 RA 2009 IS 3077:1992 4 RA 2011 FSSAI MANUAL-4	0.1% to 50%
		Water soluble/water insoluble Ash of total ash	IS 13855:1993 RA 2009 IS 3633:2003 RA 2008	0.01% to 98%
		Alkalinity of water soluble ash as (K ₂ O ₂)	IS 13856:1993 RA 2009 IS 3633:2003 RA 2003	0.01%to 5%
		Solubility in boiling water	FSSAI MANUAL 4 IS 2791:1992 RA 2009	Qualitative
		Solubility in Cold Water	IS 2791:1992 5	1 to 10 mins

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 11 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iron particles	IS 3633:2003 RA 2003	10 to 500 mg/kg
		Protein / Milk Protein	IS 2234:1989 RA 2010 FSSAI MANUAL 3-2016 IS 7219:1973	0.5% to 80%
		Freedom from extraneous matter impurities	IS 3077:1992 RA 2011 FSSAI MANUAL 4	Qualitative
		Petroleum ether extract/Fat extract	IS 3077:1992 RA 2011 FSSAI MANUAL 4	2% to 20%
		Crude Fiber	FSSAI MANUAL 4 IS 10226:Part I:1982	2% to 30%
		Carbohydrate	IS 1656:2007 RA 2012	0.5% to 80%
		Energy value	IS 13285:1992 RA 2012	10-900Kcal/100g
		Acidity/titrable acidity	IS 1479:Para t 1:1960 RA 2012 IS 2802:1964 RA 2011 IS 1165-2007 RA 2012 FSSAI MANUAL 1 FSSAI MANUAL 4	0.01% to 5%
6.	Pulses, cereal flours cereal starch and starch product cereals and cakes	Moisture	IS 1009:1979 RA 2010 FSSAI MANUAL 3-2016 IS 4684:1975 RA 2010 IS 1155:1968 RA 2010 IS 4706:1978 (Part II) RA 2010 IS 2404:1993 RA 2010 IS 1010:1968 RA 2007 IS 4706:1978 (Part II) RA 2010 IS 1485:1993 RA 2010 IS 2639:1999RA 2010	0.01% to 40%
		Total ash	IS 1009:1979 RA 2010 FSSAI MANUAL 3 IS 4684:1975 RA 2010 IS 1155:1968RA 2010 IS 1010:1968 RA 2010	0.01% to 40%

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 12 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IS 4706:1978 (Part II) RA 2010 IS 1485:1993 RA 2010 IS 2639:1999 RA 2010	
		Acid insoluble ash	IS 1009:1979 RA 2010 FSSAI MANUAL 3-2016 IS 4684:1975 RA 2010 IS 1155:1968 RA 2010 IS 1010:1968 RA 2010 IS 4706:1978 (Part II) RA 2010 IS 1485:1993 RA 2010 IS 2639:1999 RA 2010	0.01% to 40%
		Fat	IS 4684:1975 2 RA 2010 FSSAI MANUAL 3-2016	0.1% to 20%
		Protein	IS 2234:1989 RA 2010 FSSAI MANUAL 3-2016 IS 7219:1973	0.5% to 60%
		Crude Fiber	IS 1155:1968 FSSAI MANUAL 3-2016	0.2 % to 30%
		Carbohydrate	IS 1656:2007 RA 2012	0.5% to 90%
		Energy value	IS 13285:1992 RA 2012	10-900 Kcal/100g
		Gluten(dry and wet)content	IS 1009:1979 RA 2010 IS 1010:1968 RA 2010 IS 1155:1968 RA 2010 FSSAI MANUAL 3 IS 8162:1998 RA 2009	0.5% to 30%
		Acidity/Alcoholic acidity	IS 1009:1979 RA 2010 IS 1010:1968 RA 2010 IS 1155:1968 RA 2010 FSSAI MANUAL 3-2016	0.1% to 5%
		Acid value/acidity of extracted fat	IS 4684:1975 RA 2010 FSSAI MANUAL 3-2016	0.1% to 10%
		1000 kernel weight	IS 4333:Part 4:2002	0.1 g to 50g
		Shriveled/shrunken	Is 4333:1996 Part 1	0.01% to 5%

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 13 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		broken(2mm sieve)	FSSAI manual 3-2016 IS 2813:1995 IS 3579:1966	
		Insect/Weevilled Damaged	Is 4333:1996 Part 1 FSSAI manual 3 IS2813:1995 IS 3579:1966	0.01 % to 15 %
		Damaged and discoloured	Is 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	0.01% to 10%
		Foreign matter /admixture	Is 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	0.01% to 10%
		Other food/edible grain	IS 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	0.1% to 10%
		Broken	IS 4333:1996 Part 1 FSSAI manual 3-2016 IS 2813:1995 IS 3579:1966	1% to 35%
		Chalky	Is 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	1% to 20%
		Red-streaked kernels	IS 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	0.1% to 1%
		Pecks	IS 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995 IS 3579:1966	0.1% to 1%

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 14 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

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		Immature kernels	IS 4333:1996 Part 1 FSSAI manual 3-2016 IS 2813:1995 IS 3579:1966	0.1% to 1%
		Yellow kernels paddy	Is 4333:1996 Part 1 FSSAI manual 3 IS 2813:1995/IS 3579:1966	0.1% to 5%
7.	Bakery and confectionary products, sugar and sugar product based confectionary	Moisture /total solid	IS 6287:1985 RA 2010 IS 1320:1988 RA 2010 IS 1011:2002 RA 2009 IS 1483:1988 RA 2010 IS 1168:1973 RA 2009 IS 8555:1988 RA 2010 FSSAI MANUAL 3-2016 FSSAI MANUAL-4-2016	0.01% to 40%
		pH	IS 12711:1989 RA 2010 IS 1483:1988 RA 2010	1 to14
		Density / Optical density	IS 1162:1958 RA 2009	0.08 g/ml to 1.5 g/ml
		Ash	IS 12711:1989 RA 2010 IS 6287:1985 RA 2010 IS 1168:1973 RA 2009 FSSAI MANUAL 3 FSSAI MANUAL-4	0.1% to 40%
		Sulphated ash	IS 6287:1985 RA 2010 FSSAI MANUAL-4	0.1% to 10%
		Acid insoluble ash	IS 12711:1989 RA 2010 IS 6287:1985 RA 2010 IS 1483:1988 RA 2010 IS 1011:2002 RA 2009 FSSAI MANUAL 3-2016 FSSAI MANUAL-4-2016	0.01% to 40%
		Fat	IS 12711:1989 RA 2010 IS 6287:1985 RA 2010 FSSAI MANUAL 3-2016 FSSAI MANUAL-4-2016	0.05% to 60%

Laboratory APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6797

Page 15 of 19

Validity 18.01.2018 to 17.01.2020

Last Amended on 26.04.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acidity of extracted fat	IS 1011:2002 RA 2009 IS 12711:1989 RA 2010 FSSAI MANUAL 3-2016 FSSAI MANUAL-4-2016	0.1% to 3%
		Protein	IS 2234:1989 RA 2010 FSSAI MANUAL 3-2016 IS 7219:1973	0.5% to 50%
		Alcoholic acidity/acidity	FSSAI MANUAL 3-2016 IS 12711:1989 RA 2010	0.1% to 5%
		Carbohydrate	IS 1656:2007 RA 2012	0.5% to 80%
		Energy value	IS 13285:1992 RA 2012	10-900 Kcal/100g
		Reducing sugar	IS 1168:1973 RA 2009 IS 6287:1985 RA 2010 IS 1011:2002 RA 2009	0.5% to 95%
		Total sugar as Sucrose	IS 1168:1973 RA 2009 IS 6287:1985 RA 2010 IS 1011:2002 RA 2009	0.5% to 95%
		Salt as NaCl	FSSAI MANUAL 3-2016	0.1% to 10%
		Specific Gravity	IS 4941:1994	0.1 to 5.0
8.	Oil and fats product, oil cake and oil meals	Moisture	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	0.1% to 50%
		Acid value	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	0.1 to 200
		Free fatty acids	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	0.01% to 30%
		Saponification value	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2	50 to 300 mg KOH/g
		Specific Gravity	IS 548 (Part I).1164 FSSAI MANUAL-2	0.8-2.0
		Un-saponifiable matter	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2	0.01% to 5%

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 16 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iodine value	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	1 to 300 gl ₂ /100 g
		Peroxide value	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	0.1 to 50 meq/kg 51 to 300 meq/kg
		Energy value	IS 13285:1992 RA 2012	10 to 900Kcl/100g
		Insoluble matter	IS 548:Part 1:1964 RA 2015 FSSAI MANUAL-2-2016	0.01% to 5%
9.	Spices, condiments, herbal product, curry powders, pickle, chutney, sauces, dressings	Moisture	IS 1797:1985 RA 2013 IS 1907:1984 RA 2009 IS 2322:2010 FSSAI MANUAL-10 IS 253:2014 IS 7224:2006 RA 2010	0.01% to 40%
		Extraneous matter / Refraction	FSSAI MANUAL-10 IS 1797:1985 RA 2013	0.1% to 20%
		Ash	IS 1797:1985 RA 2013 FSSAI MANUAL-10 IS 3500:1966 RA 2009	0.01% to 40%
		Acid insoluble ash	IS 1797:1985 RA 2013 FSSAI MANUAL-10 IS 253:2014 IS 7224:2006 RA 2010	0.01% to 40%
		Water insoluble ash/water insoluble matter	IS 1797:1985 RA 2013 IS 1908:2008	0.01% to 30%
		Non volatile ether extract	IS 1797:1985 RA 2013 FSSAI MANUAL-10-2016	0.01% to 30%
		Volatile Oil	IS 1797:1985 2 RA 2013 FSSAI MANUAL-10	1% to 90 %
		Alcohol soluble extract	IS 1797:1985 RA 2013 FSSAI MANUAL-10-2016	0.01% to 20%
		Cold water soluble extract	IS 1797:1985 RA 2013 FSSAI MANUAL-10-2016	0.01% to 20%

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 17 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salt/sodium chloride content	IS 1797:1985 RA 2013 FSSAI MANUAL-10-2016 IS 7224:2006 RA 2010 IS 253:2014	0.05 % to 20%
		Peroxide value	FSSAI MANUAL-2-2016	0.1 to 10 meq/kg of extracted fat
		Crude Fiber	IS 1797-1985 FSSAI MANUAL-10	0.1% to 30 %
		Carbohydrate	IS 1656:20073 RA 2012	0.5% to 80%
		Energy value	IS 13285:1992 RA 2012	10 to 900 kcal/100g
		Physical tests (Impurities, Filth, Tendrils, Khokar mother spices, Insect damaged spices, Headless, damaged, broken, visible mould, discoloured, splits, spices, mould affected, live/dead insects, Rodent contamination, insect fragments, Excretaeta, Defective Rhizomes)	FSSAI MANUAL-10-2016 IS 2322:2010	0.1 % to 20%
		Acidity	IS 2860:1964 RA 2008	0.1% to 30%
		Total soluble solids	IS 3500:1966 RA 2009 IS 2860:1964 RA 2008	0.1% to 100%
		pH	FSSAI MANUAL-5-2016	1 to 14
		Drained weight	FSSAI MANUAL-5-2016 IS 2860:1964 RA 2008	0.1 to 20 kg
		Presence of lead chromate	IS 3576:2010 FSSAI MANUAL-10-016	Qualitative

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 18 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	WATER			
1.	Drinking water, Packaged Drinking Water, Packaged Natural, Mineral Water	Colour	IS 3025 (Part 4) 1983	0.1 to 5 Hazen
		Odour	IS 3025 (Part 5) 1983	Agreeable
		Taste	IS 3025 (Part 8):1984	Agreeable
		Turbidity	IS 3025(Part 10) 1984	0.1 to 200 NTU
		Total Dissolved Solid (as TDS)	IS 3025 (Part 16):1984 (RA 2012)	10 mg/L to 1000mg/L
		Total Suspended Solid (as TSS)	IS 3025 (Part 17)-1984	0.1 mg/L to 500mg/L
		pH	IS 3025 (Part 11)1983	1 to 14
		Alkalinity (as CaCO ₃)	IS 3025 (Part 23):1986 (RA A 2003)	0.5 mg/L to 500mg/L
		Chloride (as Cl)	IS 3025 (Part 32):1988 (RA A 2014)	0.5 mg/L to 500mg/L
		Calcium (as Ca)	IS 3025 (Part 40):1991 (RA A 2009)	0.5 to 500mg mg/L
		Total Hardness (as CaCO ₃)	IS 3025 (Part 21):2009	0.5 mg/L to 500mg/L
		Magnesium (as Mg)	IS 3025 (Part 46):1994 (RA 2009)	0.5 mg/L to 500mg/L
		Residual Free Chlorine (as RFC)	IS 3025 Part 26:1986 RA 2003 1st Rev. 1	0.03 mg/l to 20 mg/L
		Iron (as Fe)	IS 3025 (Part 53):2003	0.03 to 0.5 mg /L
		Manganese (as Mn)	IS 3025 (Part 59):2006	0.1 to 0.2 mg/L
		Nitrate (as NO ₃)	IS 3025 (Part 34)1988	0.1 to 45 mg/L
		Nitrite(as NO ₂)	IS 3025(Part 34)1997	0.005 to 0.05 mg/L
Zinc (as Zn)	IS 3025 (Part 49)1994	0.1 To 5 mg/L		
Aluminium(as Al)	IS 3025(Part 55) 2003	0.02 to 0.3 mg/L		
Fluoride (as F)	Clause 23 of IS 3025:1964	0.5 to 1.0 mg/L		
Sulphate(as SO ₄)	IS 3025 (Part 24):1986	1.0 to 40 mg/L		
Anionic surface active agents (as MBAS)	Annex k of IS 13428:2005	Up to 0.05 mg/L		
Borate (as BO ₃)	Annex H of IS 13428:2005	Up to 0.5 mg/L		

Laboratory **APX Laboratories, Plot No. B 7/1, Kothari Warehouse No.3, S.V.Road, Chitalsar, Manpada; Thane West, Maharashtra**

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

Certificate Number **TC-6797**

Page 19 of 19

Validity **18.01.2018 to 17.01.2020**

Last Amended on **26.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
III.	POLLUTION & ENVIRONMENT			
1.	ETP & STP	Chemical Oxygen Demand (as COD)	IS 3025 (Part 58):5220 APHA 21 st ED	1 to 1000 mg/L
		Biological Oxygen Demand (as BOD)	IS 3025 (Part 44):1993 5220 APHA 21 st ED	1 to 100 mg/L
		Dissolve Oxygen (as DO)	IS 3025 (Part 38):1993	2 to 1000 mg/L
		Total Dissolved Solid (as TDS)	IS 3025 (Part 15):1984 RA:2006	10 to 1000 mg/L
		Total Solid as (TS)	IS 3025 (Part 15):1984 IS 3025 (Part 17):1984	10 to 500 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2014.	0.5 to 1000 mg/L
		pH	IS 3025:Part 11:1984 RA 2006	1 to 14
		Colour retention KMnO ₄	Annex-A of IS 1070:1992	Qualitative
2.	Waste Water	pH	IS 3025:Part 11:1984 RA 2006	1 to 14
		Chemical Oxygen Demand (as COD)	IS 3025 (Part 58):5220 APHA 21 ST ED	1 to 5000 mg/L
		Biological Oxygen Demand (as BOD)	IS 3025 (Part 44):1993 5220 APHA 21 ST ED	1 to 1000 mg/L
		Dissolve Oxygen (as DO)	IS 3025 (Part 38):1993	2 to 100 mg/L
		Total Dissolved Solid (as TDS)	IS 3025 (Part 15):1984 RA:2006	10 to 10000 mg/L
		Total Suspended Solid (as TSS)	IS 3025 (Part 17)-1984	5 mg/L to 10000mg/L
		Total Solid as (TS)	IS 3025 (Part 15):1984 IS 3025 (Part 17):1984	10 to 10000 mg/L

***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.**