

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	1 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	FOOD & AGRICULTURE PRODUCTS			
1.	Milk & dairy products			
a.	Cream, milk, dahi, Cchana or Paneer, Cheese, Kulfi Mix, Chakka, Shrikhand, Condensed Milk, Partly Skimmed, Skimmed Condensed Milk, Ice cream	Milk Fat	IS 1479 (Part 2): 1961 (RA 2009) IS 11721: 2013 DGHS Manual No.1, 2005 Clause. 2, 3.2, 4.2, 11	0.1 % to 99 %
Milk Protein		IS 7219: 1973 (RA 2005) IS 1479 (Part 2): 1961 (RA 2009)	1 % to 50 %	
Moisture / Total Solids		IS 1479 (Part 2): 1961 (RA 2009) IS 16072: 2012 DGHS Manual No.1, 2005 Clause. 2.1, 3.0, 4.1, 5.0, 6.0, 7.0, 9.0	1 % to 90 % 8 % to 99 % (TS)	
Ash content		DGHS Manual No.1, 2005 Clause. 2.2/ IS 1479 (Part 2): 1961 (RA 2009)	0.1 % to 10 %	
Added Sugar		IS 1479 (Part 2): 1961 (RA 2009)	Qualitative (Present / Absent)	
Added starch		IS 1479 (Part 1): 1960 (RA 2003)	Qualitative (Present / Absent)	
Carbonates		IS 1479 (Part 2): 1961 (RA 2009)	Qualitative (Present / Absent)	
Titrateable Acidity		DGHS Manual No.1, 2005 , IS 11765: 1986, IS 1479 (Part 1): 1960	0.1 % to 50 %	
pH		IS 1479 (Part 2): 1961 (RA 2009) DGHS Manual No.1, 2005 Clause. 2.8	3 to 8	

Laboratory Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.09.2015

Certificate Number T-3575 **Valid Until** 10.09.2017

Last Amended on - **Page** 2 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Oils & Fats			
a.	Ghee, Palm Oil, Sunflower Oil, Mustard Oil, Soybean Oil, Hydrogenated Oil, Arachis Oil, Babassu Oil, Coconut Oil, Cottonseed Oil, Grapeseed Oil, Maize Oil, Mustard Seed Oil, Palm Kernel Oil, Palm Oil, Palm Olein, Palm Stearin, Rapeseed Oil, Rapeseed Oil, Safflower Seed Oil, Sesame Seed Oil	FFA (as oleic acid)	IS 548 (Part 1): 1964 (RA 2010)	0.01% to 10 %
		Moisture	IS 548 (Part 1): 1964 IS 3508: 1996 (RA 2003)	0.01 % to 5 %
		Baudin test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative (Present/absent)
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2010)	(0.1 mEq to 25 mEq)/kg
		Saponification Value	IS 548 (Part 1): 1964 (RA 2010)	80 to 300
		Iodine Value	IS 548 (Part 1): 1964 (RA 2010)	1 to 200
		BR reading	IS 548 (Part 1): 1964 (RA 2010)	30 to 80
		Refractive index	IS 548 (Part 1): 1964 (RA 2010)	1.4300 to 1.4800
	Specific gravity	IS 548 (Part 1): 1964 (RA 2010)	0.9 to 1.5	
3.	Fruit & Vegetable Products			
a.	Soup Powders, Fruit Juice, Vegetable Juice, Canned Products, Jams, Jellies, Marmalades	TSS/ degree brix	IS 13815: 2010	2 ° to 90 ° brix
		Moisture	IS 3882: 1966 (RA 2010); IS 5781: 1993 (RA 2003); DGHS Manual 5 Clause 4.1	1 % to 95 %
		Ash	IS 13846: 2009/ IS 3500: 1966 (RA 2005)/ DGHS 2005 Manual 5, Clause. 14.4	0.1 % to 20 %

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	3 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soup Powders, Fruit Juice, Vegetable Juice, Canned Products, Jams, Jellies, Marmalades	Protein	IS 7219: 1973 (RA 2005)	1 % to 50 %
		pH	ISO 1842: 1991 by pH meter	2 to 8
		Titrateable acidity	IS 13844: 2003/ IS 2860:1964 (RA 2008)/ DGHS 2005 Manual 5, Clause. 2.4	0.1 % to 10 %
		Acid Insoluble Ash	IS 13846: 2009/ IS 3500: 1966 (RA 2005)/ DGHS 2005 Manual 5 Clause. 5.3	0.001 % to 2 %
4.	Cereal, Pulses and by products			
a.	Maize, Bengal Gram, Rice, Bajra, Jawar, Arhar / Rahar / Tur / Tuar, Chana, Cholia / Hara Chana Daal, Chawli, Lobia, Dalia, Kabuli Chana / Chhole, Masoor, Matar, Moong, Motth Poha, Rajma, Urad Daal Kaali Daal, Hani, Maida, Wheat Flour, Maida, Wheat Flour, Sooji	Moisture	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 2.0	1 % to 20 %
		Ash	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 8.3	0.1 % to 10 %
		Fat	AOAC (19 th Edition) 963.15/ 922.06 : 2012	0.1 % to 30 %
		Protein	IS 7219: 1973 (RA 2005)/	0.1 % to 90 %
		Acid Insoluble Ash	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 8.4	0.001 % to 2 %

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	4 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Maize, Bengal Gram, Rice, Bajra, Jawar, Arhar / Rahar / Tur / Tuar, Chana, Cholia / Hara Chana Daal, Chawli, Lobia, Dalia, Kabuli Chana / Chhole, Masoor, Matar, Moong, Motth Poha, Rajma, Urad Daal Kaali Daal, Hani, Maida, Wheat Flour, Maida, Wheat Flour, Sooji	Gluten	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 8.5	5 % to 30 %
		Alcoholic acidity	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 8.6	0.1 to 5
		Foreign matter	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.01 % to 20 %
		Damaged /Discolored Grains	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.05 % to 10 %
		Wevilled grains	IS 4333 (Part 1): 1996 (RA 2012)	0.05 % to 10 %
		Test for starch	IS 4706 (Part 1): 1978	Qualitative (Present/Absent)
		Broken grains	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.01 % to 25 %
		Chalky grains	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.01 % to 25 %
		immature grains	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.01 % to 25 %
		insect damaged grains	IS 4333 (Part 1): 1996 (RA 2012) IS 3579: 1966 (RA 2000)	0.01 % to 25 %
		Crude Fibre	IS 1155: 1968/ DGHS 2005 Manual 3	0.4 % to 30 %
		Acidity of extracted fat	IS 12711: 1989	0.05 % to 5 %

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	5 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Meat and Meat Products			
a.	Seekh Kebab, Canned Meat	Moisture	IS 5960 (Part 5): 2001	1 % to 80 %
		Ash	IS 5960 (Part 2): 2000	0.1 % to 10 %
		Fat	IS 5960 (Part 3): 1970	0.1 % to 40 %
		Protein	IS 5960 (Part 1): 1996	1 % to 50 %
6.	Bakery & Confectionery Products			
a.	Toffees, Biscuit, Chocolate,	Ash insoluble in HCL	IS 6287: 1985 (RA 1999)/ IS 12711: 1989 (RA 1994)	0.01 % to 2 %
		Alcoholic acidity	IS 1009: 1979 (RA 2010)/ IS 1155: 1968 (RA 2010)/ DGHS 2005 Manual 3 Clause. 8.6	0.5 to 5
		Crude fibre	IS 12711: 1989/ IS 1483: 1988	0.001 % to 30 %
		Sulphated Ash	IS 6287: 1985 (RA 1999)	0.01 % to 2 %
		Moisture	IS 12711: 1989 (RA 1994)/ IS 1011: 2002 (RA 2009)	1 % to 50 %
		Ash	IS 12711: 1989 (RA 1994) / IS 1011: 2002 (RA 2009)	0.1 % to 5 %
		Fat	IS 12711: 1989 (RA 1994)	0.1 % to 50 %
		Protein	IS 7219: 1973 (RA 2005)	0.1 % to 5 %

Sumit Sundriyal
Convenor

N. Venkateswaran
Program Manager

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	6 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
7.	Spices & Condiments			
a.	Whole & Ground Chilli, Coriander, Dhania, Cumin	Moisture	IS 1797: 1985 (RA 2009)	0.5 % to 20 %
		Ash	IS 1797: 1985 (RA 2009)	2 % to 10 %
		Fat	GAFTA 2003 (3.0)	0.1 % to 50 %
		Protein	IS 7219: 1973 (RA 2005)	0.1 % to 5 %
		Volatile oil content	IS 1797: 1985 (RA 2009)	0.1 % to 25 %
		Non volatile ether extract	IS 1797: 1985 (RA 2009)	0.1 % to 30 %
		Extraneous matter	IS 1797: 1985 (RA 2009)	0.05 % to 10 %
		Cold water soluble extract	IS 1797: 1985 (RA 2009)	0.1 % to 30 %
		Alcohol soluble extract	IS 1797: 1985 (RA 2009)	0.5 % to 25 %
		Acid insoluble ash	IS 1797: 1985 (RA 2009)	0.01 % to 2 %
		Crude fibre	IS 1797: 1985 (RA 2009)	1 % to 40 %
		Bulk density	DGHS Manual 10, Clause. 13.1	1000 g/l to 2000 g/l
		Matter insoluble in water	IS 1797: 1985 (RA 2009)	0.1% to 30%
8.	Oil Seeds & by-products			
a.	Mustard Seed, Sesame Seed, Soybean Seed, Sunflower Seed	Moisture	IS 3579: 1966 (RA 2000)	0.01 % to 20 %
		Oil /fat content	IS 3579: 1966 (RA 2000)	0.01 % to 60 %

Sumit Sundriyal
Convenor

N. Venkateswaran
Program Manager

Laboratory Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.09.2015

Certificate Number T-3575 **Valid Until** 10.09.2017

Last Amended on - **Page** 7 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Mustard Seed, Sesame Seed, Soybean Seed, Sunflower Seed	FFA (as oleic acid)	IS 3579: 1966 (RA 2000) IS 548 (Part 1): 1964 (RA 2010)	0.01 % to 10 %
		foreign matter	IS 3579: 1966 (RA 2000)	0.01 % to 20 %
		Immature grain	IS 3579: 1966 (RA 2000)	0.01 % to 10 %
		Shrivelled Grain and Immature	IS 3579: 1966 (RA 2000)	0.01 % to 10 %
		Damaged & Weevilled Grain	IS 3579: 1966 (RA 2000)	0.05 % to 10 %
		Broken grain	IS 3579: 1966 (RA 2000)	0.1 % to 10 %
9.	Animal Feeds			
a.	Rice Bran Doc, Mustard Oil Cake, Soyabean Oil Cake, Cotton Oil Cake	Moisture	IS 7874 (Part 1): 1975	2 % to 20 %
		Crude fat	IS 7874 (Part 1): 1975	0.5 % to 60 %
		Crude protein	IS 7874 (Part 1): 1975 IS 7219: 1973 (RA 2005)	1 % to 70 %
		Crude fiber	IS 7874 (Part 1): 1975	2 % to 30 %
		Ash	IS 7874 (Part 1): 1975	2 % to 30 %
		Acid insoluble ash	IS 7874 (Part 1): 1975	0.01 % to 5 %

Laboratory	Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3575	Valid Until	10.09.2017
Last Amended on	-	Page	8 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Nutritional Labeling & Analysis			
a.	Milk, Dahi, Chana Or Paneer, Cheese, Kulfi Mix, Chakka, Shrikhand, Condensed Milk, Partly Skimmed, Skimmed Condensed Milk, Ice Cream, Seekh Kebab, Canned Meat, Toffees, Biscuit, Chocolate, Whole & Ground Chilli, Coriander, Dhania, Cumin	Energy / Calories	Lab SOP QSL/SOP/CH/01 , Issue No.1, Issue Dated 16.09.15	(40 Kcal to 900 Kcal)/ 100 g
		Carbohydrates	Lab SOP QSL/SOP/CH/01 , Issue No.1, dated 16.09.15	0.1 % to 99 %
		Total Fat	IS 1164: 1986 (RA 2012)/ IS 1163: 1992 (RA 2009)/ IS 6287: 1985/ DGHS 2005 Man 6/ Man 4/ AOAC (19 th Edition) 996.01: 2012	0.1 % to 99 %
		Protein	AOAC (19 th Edition) 2001.11: 2012/ IS 7219: 1973 (RA 2005)	0.1 % to 90 %
		Sugars	IS 6287: 1985/ DGHS 2005 Manual 4 & Manual 5	0.1 % to 95 %
II.	WATER			
1.	Swimming pool water	pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 10
		Total Hardness	IS 3025 (Part 21): 1983 (RA 2009)	1 mg/l to 1000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2007)	0.1 mg/l to 10000 mg/l

Laboratory Quality Services & Laboratories, Plot No. 10, Second Floor, DSIDC Scheme-III, OKhla Industrial Area, Phase-II, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.09.2015

Certificate Number T-3575 **Valid Until** 10.09.2017

Last Amended on - **Page** 9 of 9

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Potable Water Used for Drinking Purposes	pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 10
		Total Hardness	IS 3025 (Part 21): 1983 (RA 2009)	1 mg/l to 1000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2007)	0.1 mg/l to 10000 mg/l
3.	Raw/ Borewell water	pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 10
		Total Hardness	IS 3025 (Part 21): 1983 (RA 2009)	1 mg/l to 1000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 1000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2007)	0.1 mg/l to 10000 mg/l

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

Sumit Sundriyal
Convenor

N. Venkateswaran
Program Manager