Laboratory Oil & Fats Laboratory, Vinayak Oil & Fats Pvt. Ltd., Jalan Complex,

(Industrial Estate), 29.5 Milestone, N. H.- 6, Village Baniara, P.O. Begri,

P. S. Domjoor, Dist. Howrah, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 31.10.2016

Certificate Number T-3176 Valid Until 30.10.2018

Last Amended on - Page 1 of 3

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 & A GRICU	LTURAL PRODUCT		
1.	Oils and Fats (Sesame oil, Rice bran oil, Mustard	Refractive Index at 40 °C	IS 548 (Part 1): 1964 (RA 2015) Serial No. 10	1.40 to 1.5
	oil, Soybean oil, Sunflower oil, Palm oil, Ground	Free Fatty Acid (%)	IS 548 (Part 1): 1964 (RA 2015) Serial No. 07	0.05 g/100 g to 10 g/100 g
	nut oil, Coconut oil and other ve getable oils)	Iodine Value	IS 548 (Part 1): 1964 (RA 2015) Serial No. 14	5 to 250
	getable only	Saponification value	IS 548 (Part 1): 1964 (RA 2015) Serial No. 15	100 to 250
		Unsaponifiable Matter	IS 548 (Part 1): 1964 (RA 2015) Serial No. 8	0.2 g/100 g to 6 g/100 g
		Peroxide value	IS 548 (Part 1): 1964 (RA 2015) Serial No. 21	0.1 meq/k g to 5 meq/k g
		Flash Point	IS 1448 (Part 21): 2012	90 °C to 300 °C
		Colour	IS 548 (Part 1): 1964 (RA 2015) Serial No. 13 (By Lovibond Tintometer)	2 Y to 20 Y 0.5 R to 10 R
		Bellier Turbidity Temperature	IS 548 (Part 2): 1976 (RA 2015) Serial No. 13	20 °C to 50 °C
		Moisture Content	IS 548 (Part 1): 1964 (RA 2015) Serial No. 5	0.01 g/100 g to 0.5 g/100 g

Laboratory Oil & Fats Laboratory, Vinayak Oil & Fats Pvt. Ltd., Jalan Complex,

(Industrial Estate), 29.5 Milestone, N. H.- 6, Village Baniara, P.O. Begri,

P. S. Domjoor, Dist. Howrah, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 31.10.2016

Certificate Number T-3176 Valid Until 30.10.2018

Last Amended on - Page 2 of 3

. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils and Fats (Sesame oil, Rice	Specific Gravity 30 ⁰ /30 ⁰ C	IS 548 (Part 1): 1964 (RA 2015) Serial No. 11	0.80 to 1.00
	bran oil, Mustard oil, Soybean oil,	Argemone Oil	IS 548 (Part 2): 1976 (RA 2015) Serial No. 10	Qualitative (Present/Absent)
	Sunflower oil, Palm oil, Ground nut oil, Coconut oil and other ve	Insoluble Matter	IS 548 (Part 2): 1976 (RA 2015)	Qualitative (Present/Absent)
	getable oils) Cottonseed Oil IS 548 (Part 2): 1976 (RA 2015) Serial No. 7 Linseed Oil IS 548 (Part 2): 1976 (RA 2015) Serial No. 8 Neem Oil IS 548 (Part 2): 1976 (RA 2015) Serial No. 16 Kusum Oil IS 548 (Part 2): 1976 (RA 2015) Serial No. 14 Sesame Oil (Baudouin) IS 548 (Part 2): 1976 (RA 2015) Serial No. 6 Karanja Oil IS 548 (Part 2): 1976 (RA 2015) Serial No. 9 Mineral Oil IS 548 (Part 2): 1976	Cottonseed Oil		Qualitative (Present/Absent)
		Linseed Oil		Qualitative (Present/Absent)
		. /	Qualitative (Present/Absent)	
		Kusum Oil	,	Qualitative (Present/Absent)
		· /	Qualitative (Present/Absent)	
			Qualitative (Present/Absent)	
		IS 548 (Part 2): 1976 (RA 2015) Serial No. 12.1	Qualitative (Present/Absent)	
		Castor Oil		Qualitative (Present/Absent)

Laboratory Oil & Fats Laboratory, Vinayak Oil & Fats Pvt. Ltd., Jalan Complex,

(Industrial Estate), 29.5 Milestone, N. H.- 6, Village Baniara, P.O. Begri,

P. S. Domjoor, Dist. Howrah, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 31.10.2016

Certificate Number T-3176 Valid Until 30.10.2018

Last Amended on - Page 3 of 3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils and Fats	Fatty Acid Composition		
	(Sesame oil, Rice	Butyric Acid	IS 548 (Part 3): 1976	1 g/100 g to10 g/100 g
	bran oil, Mustard	Caproic Acid	(RA 2012)	1 g/100 g to10 g/100 g
	oil, Soybean oil,	Caprylic Acid		1 g/100 g to10 g/100 g
	Sunflower oil,	Capric Acid		1 g/100 g to 20 g/100 g
	Palm oil, Ground	Lauric Acid		1 g/100 g to 55 g/100 g
	nut oil, Coconut	Myristic Acid		1 g/100 g to 20 g/100 g
	oil and other	Palmitic Acid		1 g/100 g to 75 g/100 g
	vegetable oils)	Palmitoleic Acid		1 g/100 g to10 g/100 g
	= /	Margaric Acid		1 g/100 g to10 g/100 g
		Stearic Acid		1 g/100 g to 10 g/100 g
		Oleic Acid		1 g/100 g to 90 g/100 g
		Elaidic Acid		1 g/100 g to 10 g/100 g
		Linoleic Acid		1 g/100 g to 60 g/100 g
		Linoelaidic Acid		1 g/100 g to 10 g/100 g
		Linolenic Acid		1 g/100 g to 20 g/100 g
		Gama Linolenic Acid		1 g/100 g to10 g/100 g
		Arachidic Acid		1 g/100 g to10 g/100 g
		Eicosenoic Acid		1 g/100 g to 20 g/100 g
		Arachidonic Acid		1 g/100 g to10 g/100 g
		Behenic Acid		1 g/100 g to10 g/100 g
		Erucic Acid		1 g/100 g to 60 g/100 g
		Lignoceric Acid		1 g/100 g to10 g/100 g
		Eicosapentaenoic Acid		1 g/100 g to10 g/100 g
		Docosahexaenoic Acid		1 g/100 g to10 g/100 g

Anita Rani Convenor