

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376 **Page 1 of 6**

**Validity** 06.10.2017 to 05.10.2019 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

### CHEMICAL TESTING

I.	FOOD AND AGRICULTURE PRODUCTS			
1.	<b>Animal Feeds and Poultry Food</b>	Moisture	IS: 7874 (Part-I) 1975/A-1991	1% to 20%
		Total Ash	IS: 7874 (Part-I) 1975/A-1991	1% to 15%
		Acid insoluble Ash	IS: 7874 (Part-I) 1975/A-1991	0.01% to 5%
		Salt as Sodium Chloride	IS: 7874 (Part-II) 1975/A-2006	0.1% to 20%
2.	<b>Spices &amp; Condiments</b>	Alcohol Soluble Extract	IS: 1797-1985	0.2% to 40%
		Acidity	IS: 13242-1991	0.1% to 30%
		Cold Water Soluble Extract	IS: 1797 / 1985/R-1994, IS: 2860	0.2% to 40%
		Total Ash	IS: 1797-1985/A-1994	1% to 20%
		Water Soluble Ash	IS: 1797-1985/A-1994	1% to 15%
		Acid Insoluble Ash	IS: 1797-1985/A-1994	0.01% to 5%
		Moisture Content	IS: 1797-1985/A-1994	1% to 25%
3.	<b>Edible Vegetable Oil</b>	Moisture	IS: 548 (Part-1) 1964/1996	0.01% to 5.0 %
		Acid Value	IS: 548 (Part-1) 1964/1996	0.01 to 20
		Specific Gravity	IS: 548 (Part-I) 1964/A-1996	0.5 to 1.0
4.	<b>Food Grains, Cereal, Pulses and By-Products</b>	Moisture	IS: 4333 (Part-II) – 2002	1% to 30%
		Total Ash	IS: 1009-1979/ A-1995	0.1% to 50%
		Acid Insoluble Ash	IS: 1009-1979/ A-1995	0.1% to 10%
		Gluten	IS: 1009-1979/ A-1995	0.5% to 50%
		Insect Infestation	IS: 4333 (Part-I) – 1996/ IS-2813-1995	Qualitative
		Alcoholic Acidity	IS: 1009-1979/ A-1995/IS-1155-1968	0.01% to 2.0 %

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376

**Page 2 of 6**

**Validity** 06.10.2017 to 05.10.2019

**Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Alcoholic drinks and Carbonated Beverages Whisky, Wines, Gin, Rums, Brandie, Vodkas, Beers,	Ethyl Alcohol Content	IS: 3752-2005	1% to 99.9%
		Residue on Evaporation	IS: 3506-1989/ R2009	0.01% to 5% m/v
		Total Acidity	IS: 3752-2005	0.01 to 50 g/100ltr
II.	WATER			
1.	Ground Water Surface Water Drinking Water	pH	IS: 3025 (pt-11)-1983, Reaff. 2002, pH meter	1.0 to 13
		Total Hardness	IS: 3025 (pt-21)-2002-2009, EDTA Method	2 mg/l to 1000 mg/l
		Iron	IS: 3025 (pt-53)-2003 Method-6, Spectrophotometer	0.1 mg/l to 10 mg/l
		Chloride	IS: 3025 (pt-32)-1988, Reaff. 2002,	2 mg/l to 1000 mg/l
		Fluoride	APHA 4500F (D) 23 <sup>rd</sup> Edition- 2017	0.1 mg/l to 5.0 mg/l
		Total solid	IS-3025(Pt-15)1984 Gravimetric	5 mg/l to 10000 mg/l
		Conductivity at 25°C	IS-3025(Pt-14)1984	0.1 µs/cm to 1000 µs/cm
		Total suspended solids	IS-3025(pt-17)-1984, Gravimetric method	2 mg/l to 10000 mg/l
		Sodium	IS: 3025 (pt-45)-1993, Reaff. 2003, Flame photometer	1 mg/l to 1000 mg/l
		B.O.D	IS: 3025 (pt-44)-1993, Reaff. 2003 (27°C for 3 days)	2 mg/l to 1000 mg/l
	Potassium	IS: 3025 (pt-45)-1993, Reaff. 2003, Flame photometer	1 mg/l to 1000 mg/l	

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376

**Page 3 of 6**

**Validity** 06.10.2017 to 05.10.2019

**Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrite	IS: 3025 (pt-34)-1988, Reaff. 2003, Method 4	0.02 mg/l to 100 mg/l
		C.O.D.	APHA-5220B 23 <sup>rd</sup> Edition 2017	5 mg/l to 10,000 mg/l
		Total Dissolved Solids (TDS)	IS: 3025 (pt-16)-1984, Reaff. 2002, Gravimetric	5 mg/L to 10,000 mg/L
		Calcium	IS: 3025 (pt-40)-1991, Reaff. 2002, Method 5 EDTA Titrimetric	2 mg/l to 1000 mg/l
		Chromium (Hexavalent)	IS: 3025 (pt-52)-2003, Method-6, Spectrophotometer	0.05 mg/l to 50 mg/l
		Alkalinity	IS: 3025 (pt-23)-1986, Reaff. 2003, Method-8	2.0 mg/l to 1000 mg/l
		Phosphate (PO <sub>4</sub> )	IS-3025(Pt-31) 1988, Method-4	0.1 mg/l to 100 mg/l
		Magnesium	IS-3025(pt-46)-1994 By calculation	2 mg/l to 1000 mg/l
		Sulphate	IS: 3025 (pt-24)-1986, Reaff. 2003 Turbidity method, method 4	2 mg/l to 400 mg/l
<b>III.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water and Effluents</b>	pH	IS: 3025 (pt-11)-1983, Reaff. 2002, pH meter	1 to 13
		TDS	IS: 3025 (pt-16)-1984, Gravimetric method	5 mg/L to 10,000 mg/L
		TSS	IS-3025(pt-17)-1984, Gravimetric method	5 mg/L to 1000 mg/L
		Oil & Grease	IS: 3025 (pt-39)-1991, Reaff. 2003, Method-5	5 mg/l to 100 mg/l
		B.O.D.	IS: 3025 (pt-44)-1993, Reaff. 2003 (27°C for 3 days)	2 mg/l to 10,000 mg/l

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376

**Page 4 of 6**

**Validity** 06.10.2017 to 05.10.2019

**Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		COD	APHA-5220B/23 <sup>rd</sup> Edition. 2017	5 mg/l to 30,000 mg/l
2.	Soil	pH	IS 2720 (Part 26): 1987 (Reaffirmed 2011)	1.0 to 13.0
		Conductivity	IS 2720 (Part 21): 1977 (Reaffirmed 2010)	100 µs/cm to 5,000 µs/cm
		Organic Matter	IS 2720 (Part 22): 1972 (Reaffirmed 2010)	1.0 % to 10 %
		Moisture Content	IS 2720 (Part 2): 1973 (Reaffirmed 2011)	2.0 % to 30 %
		Sodium (as Na)	STRL/STP/SOIL/06 Issue Date: 12.02.2017	5.0 mg/kg to 500 mg/kg
		Potassium(as K)	STRL/STP/SOIL/07 Issue Date: 12.02.2017	5 mg/kg to 500 mg/kg
		Calcium(as Ca)	STRL/STP/SOIL/08 Issue Date: 12.02.2017	200 mg/kg to 1000 mg/kg
		Sulphate	IS 2720 (Part 27): 1977(Reaffirmed 2010)	10.0 mg/kg to 1000 mg/kg
IV.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Air, Gases &amp; Atmosphere (Ambient )</b>	Particulate Matter (Size less than 10 µm) or PM <sub>10</sub>	IS 5182 (Part 23): 2006 (Reaffirmed 2012)	10 µg/m <sup>3</sup> to 2000 µg/m <sup>3</sup>
		Particulate Matter (Size less than 2.5 µm) or PM <sub>2.5</sub>	STRL/LAB/AIR/SOP/01 Date of Issue: 05.01.2017	10.0 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (RA 2012)	5.0 µg/m <sup>3</sup> to 740 µg/m <sup>3</sup>
		Nitrogen oxide (as NO <sub>2</sub> )	IS 5182 (Part 6): 2006 (RA 2012)	5.0 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Ozone(as O <sub>3</sub> )	IS 5182 (Part 9): 1974 ( Reaffirmed 2009)	10 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Ammonia (as NH <sub>3</sub> )	STRL/LAB/AIR/SOP/01 Date of Issue: 05.01.2017	10 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376

**Page 5 of 6**

**Validity** 06.10.2017 to 05.10.2019

**Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	<b>Stack Emissions (Source missions)</b>	Particulate Matter (Except Incinerators, Boilers & DG Sets.)	IS 11255 (Part 1): 1985 (Reaffirmed 2009)	10.0 g/Nm <sup>3</sup> to 100.0 g/Nm <sup>3</sup>
		Sulphur Dioxide	IS 11255 (Part 2): 1985 (Reaffirmed 2009)	5.0 mg/Nm <sup>3</sup> to 500.0 mg/Nm <sup>3</sup>

**Laboratory** Shri Om Testing & Research Laboratory, Plot No-296, 1<sup>st</sup> FNG Road, Ghari Chaukhandi, Sector-121, Noida, Uttar Pradesh

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

**Certificate Number** TC-6376

Page 6 of 6

**Validity** 06.10.2017 to 05.10.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

**CHEMICAL TESTING**

**AT SITE**

I.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Noise Level Measurement (Excluding Vibrations)</b>	Ambient Noise Levels (as Leq )	IS 9989 : 1981	30 to 134 db (A)
		Source Noise Levels (as Leq )	IS 4758 :1968	30 to 134 db (A)

---

Anuja Anand  
Convenor

---

N. Venkateswaran  
Program Director