

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 1 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

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

**BIOLOGICAL TESTING**

I.	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
1.	<b>Milk and Milk Products</b>	Bacterial Count	IS 5402	≥ 10 cfu/gm or ≥1 cfu/ml
		Coliform Count	IS 5401:Part 1	≥ 10 cfu/gm or ≥1 cfu/ml
			IS 5401:Part 2	≥ 0.30 or ≥ 110 MPN /g or ml , Present/Absent per 1g/0.1g
		Yeast and Moulds	IS 5403	≥ 10 cfu/gm or ≥1 cfu/ml
		Staphylococcus aureus	IS:5887:Part 2	≥ 100 cfu/gm or ≥10 cfu/ml
		E.coli	IS 5887:Part 1	≥ 100 cfu/gm or ≥10 cfu/ml
		E.coli	IS 5887:Part 1	Qualitative Absent/Present per g or per ml
		Salmonella	IS 5887:Part 3	Qualitative Absent/Present per 25 g
		Listeria monocytogenes	IS 14988:Part1	Qualitative Absent/Present per g
		Aerobic spore count (B.cereus)	IS 5887 Part 6	≥ 100 cfu/gm or ≥10 cfu/ml
		Anaerobic spore count (Cl.perfringenes)	IS 5887 Part 4	Qualitative Absent/Present per g
2.	<b>Fruits and Fruit Products</b>	Coliform count	IS 5401:Part 1	≥ 10 cfu/gm or ≥1 cfu/ml
			IS 5401:Part 2	≥ 0.30 or ≥ 110 MPN /g or ml, Present/Absent per 1g/0.1g

**Vinay Kumar Tyagi**  
Convenor

**N. Venkateswaran**  
Program Director

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 2 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Yeast and Moulds	IS 5403	≥ 10 cfu/gm or ≥1 cfu/ml
		Staphylococcus aureus	IS:5887:Part 2	≥ 100 cfu/gm or ≥10 cfu/ml
		E.coli	IS 5887:Part 1	≥ 100 cfu/gm or ≥10 cfu/ml
		E.coli	IS 5887:Part 1	Qualitative Absent/Present per g or per ml
		Bacterial Count	IS 5402:2012	≥ 10 cfu/gm or ≥1 cfu/ml
		Staphylococcus aureus	IS:5887:Part 2	Qualitative Absent/Present per 25g
		Salmonella	IS 5887:Part 3	Qualitative Absent/Present per 25g
		Shigella	IS 5887 Part 7	Qualitative Absent/Present per 25g
		Vibrio cholerae	IS 5887 Part 5	Qualitative Absent/Present per 25g
		Howard Mould Count	FSSAI Lab Manual , Chapter 1-6.2.A	Positive in 40% of Field Examined
		Yeast & spore count	FSSAI Lab Manual, Chapter 1-6.2.C	NMT 125/1/60 c.m.m.
		Flat Sour Organisms	FSSAI Lab Manual , Chapter 1-13	≥ 10 cfu/gm
		Incubation at 37°C for 10 days & 55°C for 7 days	IS 2860	Qualitative Pass / Fail
3.	Vegetable and Vegetable Products Cooked Vegetable	Bacterial Count	IS 5402	≥ 10 cfu/gm
		Coliform count	IS 5401: Part 1	≥ 10 cfu/gm
			IS 5401: Part 2	≥ 0.30 or ≥ 110 MPN /g, Present/Absent per 1g/0.1g
		Yeast and Moulds	IS 5403:	≥ 10 cfu/gm
		Staphylococcus aureus	IS:5887: Part 2	≥ 100 cfu/gm

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 3 of 39**

**Validity**                         **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		E. coli	IS 5887: Part 1	≥ 100 cfu/gm
		Staphylococcus aureus	IS:5887: Part 2	Qualitative Absent/Present per g
		E. coli	IS 5887: Part 1	Qualitative Absent/Present per g
		Flat Sour Organisms	FSSAI Lab Manual, Chapter 1-13	≥ 10 cfu/gm
		Howard Mould Count	FSSAI Lab Manual, Chapter 1-6.2.A	Positive in 40% of Field Examined
		Incubation at 37°C for 10 days & 55°C for 7 days	IS 2860	Qualitative Pass / Fail
		Yeast & spore count	FSSAI Lab Manual, Chapter 1-6.2.C	NMT 125/1/60 c.m.m.
<b>4.</b>	<b>Spices and Condiments</b>	Salmonella	IS 5887: Part 3	Qualitative Absent / Present per 25 g
<b>5.</b>	<b>Sugar and Syrups</b>	Bacterial Count	IS 5402	≥ 10 cfu/gm or ≥ 1 cfu/ml
		Coliform count	IS 5401: Part 1	≥ 10 cfu/gm or ≥ 1 cfu/ml
			IS 5401: Part 2	≥ 0.30 or ≥ 110 MPN /g or ml, Present/Absent per 1g/0.1g
		Yeast and Moulds	IS 5403	≥ 10 cfu/gm or ≥ 1 cfu/ml
		Staphylococcus aureus	IS 5887: Part 2	≥ 100 cfu/gm or ≥10 cfu/ml
		E. coli	IS 5887: Part 1	≥ 100 cfu/gm or ≥ 10 cfu/ml
<b>6.</b>	<b>Carbonated, Fruit Beverages or Fruit Drinks, Non Alcoholic Beverages</b>	Total plate count	IS 5402	≥ 1 cfu/ml
		Yeast and Moulds	IS 5403	≥ 1 cfu/ml
		Coli form count	IS 5401 part 2	Qualitative Absent / Present per 100 ml

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 4 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	<b>WATER</b>			
1.	<b>Drinking Water , Packaged Natural Mineral Water, Packaged Drinking Water</b>	Salmonella	IS 15187	Qualitative Present/Absent per 250ml
		Coliforms	IS 1622	≥ 2 to 1600 MPN/100ml
			IS 15185, APHA 9221 D	Qualitative Absent/Present per 250ml
		E.coli	IS 1622	Qualitative Absent/Present per 100ml
			IS 15185	Qualitative Absent/Present per 250ml
		Standard Plate count	IS 1622	≥ 1 cfu/ml
		Shigella	IS 5887: Part 7	Qualitative Present/Absent per 250ml
		Vibrio cholerae	IS 5887: Part 5	Qualitative Present/Absent per 250ml
		Vibrio parahaemolyticus	IS 5887: Part 5	Qualitative Present/Absent per 250ml
		Faecal streptococci	IS:15186	Qualitative Present/Absent per 250ml
		Staphylococcus aureus	IS:5887: Part 2:	Qualitative Present/Absent per 250ml
		Pseudomonas aeruginosa	IS 13428: Annex. D	Qualitative Present/Absent per 250ml
		Sulphite reducing anaerobes	IS 13428: Annex. C	Qualitative Present/Absent per 50ml
		Yeast and Moulds	IS 5403	Qualitative Present/Absent per 250 ml
	Aerobic Microbial Count (37 °C)	IS 5402	≥ 1 cfu/ml	
	Aerobic Microbial Count (22 °C)	IS 5402	≥ 1 cfu/ml	

**Vinay Kumar Tyagi**  
Convenor

**N. Venkateswaran**  
Program Director

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 5 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	<b>Water for Processed Food Industry</b>	Coliform bacteria	IS 1622	1 to 1600 MPN/100ml
		Standard Plate count	IS 1622	≥ 1 cfu/ml
		Lipolytic bacterial count	IS 4251	≥ 1 cfu/ml
		Proteolytic bacterial count	IS 4251	≥ 1 cfu/ml
		Thermophilic bacterial count	IS 4251	≥ 1 cfu/ml
III.	<b>AYUSH PRODUCTS</b>			
1.	<b>Ayurvedic Drugs Avleha, Churana, Ghrita, Guggulu, Ghutika, Kshara, Taila, Lepa, Asava, Arishta, Arka, Vati, Ointments, Cream and Paste</b>	Total Microbial Plate Count	Ayurvedic Pharmacopoea Of India	≥ 10 cfu/ g or ml
		Total Yeast & Mould		≥ 10 cfu/ g or ml
		Escherichia coli		Qualitative Present/Absent per g or ml
		Staphylococcus aureus		Qualitative Present/Absent per g or ml
		Salmonella sp.		Qualitative Present/Absent per g or ml
		Pseudomonas aeruginosa	Qualitative Present/Absent per g or ml	
IV.	<b>DRUG AND PHARMACEUTICALS</b>			
1.	<b>Allopathic Drugs</b>			
a.	<b>Microbial Contamination in Non Sterile Products (ORS, Syrups, Lotions, Creams, Capsules, Tablets, Excipients)</b>	Total Aerobic Count	Indian Pharmacopeia	≥ 10 cfu/ g or ml , ≥ 100cfu/g or ml (for gummy substances)
		Total Fungal Count	Indian Pharmacopeia	≥ 10 cfu/ g or ml , ≥ 100cfu/g or ml (for gummy substances)
		Pathogens Escherichia coli	Indian Pharmacopeia	Qualitative Present/Absent per g or ml

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 6 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>V.</b>	<b>COSMETICS AND ESSENTIAL OILS</b>			
<b>1.</b>	<b>Skin Creams, Lotions, Tooth Powder, Tooth Paste</b>	Total Microbial Count	IS: 14648	≥ 10 cfu/ g or ml
		Yeast and mould count		≥ 10 cfu/ g or ml
		Gram negative pathogen- Escherichia coli Pseudomonas aeruginosa		Qualitative Present/Absent per g
<b>2.</b>	<b>Hair Oil</b>	Total Viable count	IS: 7123	≥ 1 cfu/ ml

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 7 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

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

**CHEMICAL TESTING**

<b>I.</b>	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Herbs, Spices &amp; Condiments</b>			
	<b>Compound Asafoetida &amp; Asafoetida</b>			
<b>a.</b>	<b>Asafoetida (Hing and Hingra) Compound Asafoetida</b>	Total Ash	IS 7807	0.1%-25%
		Moisture Content	IS 1797	1% - 20%
		Acid Insoluble Ash	IS 7807	0.1%-10%
		Alcohol Extract	IS 7807	0.1%-60%
		Starch	IS 7807	0.1%- 80%
		Colophony resin	IS 7807	Qualitative
		Galbanum Resin	IS 7807	Qualitative
		Ammoniaccum Resin	IS 7807	Qualitative
		Any other Resin	IS 7807	Qualitative
		Coal Tar dyes By TLC	STP/188, ISSUE NO. 01, ISSUE DATE : 03/01/2018	Qualitative
		Mineral Pigment By TLC	STP/188, ISSUE NO. 01, ISSUE DATE 03/01/2018	Qualitative
<b>b.</b>	<b>Spices &amp; Condiments, Caraway, Cardamom, Chilies and Capsicum, Cinnamon, Cloves, Coriander, Cumin, Fennel, Ginger, Fenugreek, Mustard, Nutmeg, Turmeric, Curry Powder, Mix</b>	Extraneous Matter	IS 1797	0.1%-20%
		Total Ash	IS 1797	0.1%-20%
		Water Insoluble Ash	IS 1797	0.1%-40%
		Acid Insoluble Ash	IS 1797	0.1%-5%
		Moisture Content	IS 1797	1%-20%
		Alcohol Soluble Extract	IS 1797	0.1%-20%
		Cold water Soluble Extract	IS 1797	0.1%-20%
		Crude Fibre	IS 1797	0.5%-20%
		Non Volatile Ether Extract	IS 1797	0.5%-40%
		Volatile Oil	IS 1797	0.1%-15%
		Insect Damage	FSSAI Manual of Methods Cereal and Cereal Products	Qualitative

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067** (in lieu of T-2706 & T-2842)

Page 8 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
	<b>Masala, Ajowan, Dried Mango Slice, Pepper White, Pepper Black, Garlic</b>	Total Aflatoxin (B1, B2, G1, G2)	FSSAI Manual of Methods (Mycotoxins)	0.0025 mg/Kg -0.250 mg/Kg	
		Foreign Coloring Matter	FSSAI Manual of Methods (Food Additives ) (I.C.M.R.)	Qualitative	
		Residual Solvents	IP	10 mg/Kg -500 mg/Kg	
		Presence of Chromate	IS 3576	Qualitative	
		Lead as Pb	IS 2860	1 mg/Kg -20mg/Kg	
		Copper as Cu	IS 2860	1 mg/Kg -10mg/Kg	
		Zinc as Zn	IS 2860	2 mg/Kg -40mg/Kg	
		Cadmium as Cd	IS 2860	0.05 mg/Kg – 0.5 mg/Kg	
		Tin as Sn	IS 2860	0.05 mg/Kg – 0.2 mg/Kg	
		Salt	IS 1797	0.2%-10%	
<b>c.</b>		<b>Pepper</b>	Piperine Content	IS 5832	0.1%-20%
			Piperine Content	IS : 15695	0.05%-20%
	Light berry		IS 1798	0.1%-10%	
	Pin Head / Broken berry		IS 1798	0.1%-10%	
	Bulk Density		IS 1797	20g/L-1000g/L	
<b>d.</b>	<b>Chilli Powder</b>	Capsaicin Content	QL/V/017, ISSUE NO. 03, ISSUE DATE: 09-03-2016	0.05%-30%	
		Colour Value	IS 13663	500-50000	
<b>e.</b>	<b>Chillies and Capsicum</b>	Unripe and Marked Fruits	IS 2322	0.1%-5%	
		Broken Fruits, Seeds and Fragments	IS 2322	0.1%-10%	
<b>f.</b>	<b>Cumin</b>	Broken Fruit (Damaged Shrivelled, Discoloured and immature seeds)	IS 2447	0.1%-10%	
		Edible Seeds Other than Cumin	IS 2447	0.1%-10%	
<b>g.</b>	<b>Ginger</b>	Calcium as CaO	IS 1908	0.1%-10%	
<b>h.</b>	<b>Saffron</b>	Moisture and Volatile Matter	IS 5453: Part 2	1%-20%	
		Total Ash	IS 5453: Part 2	1%-20%	



**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 9 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acid Insoluble Ash	IS 5453: Part 2	0.1%-2%
		Bitterness	IS 5453: Part 2	10-200 unit
		Safranal	IS 5453: Part 2	2-200 unit
		Colouring Strength	IS 5453: Part 2	10-200 unit
		Floral Waste	IS 5453: Part 2	0.1%-20%
		Solubility in cold water on dry basis	IS 1797	25%-75%
		Total Nitrogen on dry basis	IS 5194	0.1%-5%
		Crude fibre on dry basis	IS 1797	0.5%-20%
i.	<b>Turmeric Powder</b>	Curcumin Content	IS 10925	0.15-10%
		Colour Value	IS 10925	10-600
		Starch	IS 4706: Part 2	20%-80%
j.	<b>Cardamom Whole</b>	Empty and malformed capsules by count	IS 1907	0.15-10%
		Immature and shrivelled capsules	IS 1907	0.1%-10%
k.	<b>Cardamom Seeds</b>	Light Seeds/Brown/Red seeds	IS 1907	0.1%-10%
	<b>Cardamom Large</b>			
	<b>Cloves Whole</b>	Tendrils, Mother Cloves	IS 4404	0.1%-5%
		Khokar Cloves	IS 4404	0.1%-5%
		Headless Cloves	IS 4404	0.1%-15%
l.	<b>Fennel Whole</b>	Edible Seeds Other than Fenel	IS 3796	Qualitative
m.	<b>Mustard Whole</b>	Allyl isothiocyanate (m/m) on dry basis a) B nigra b) B Juncea	FSSAI manual of methods (Spices & Condiments)	0.1%- 2.5%
		P-hydroxybenzyl iso thiocyanate (m/m) on dry basis in sinapist alba	FSSAI manual of methods (Spices & Condiments)	0.1%-5%

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 10 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Argemone Seeds	IS 2323 FSSAI manual of methods (Spices & Condiments)	Qualitative
n.	Mustard Powder	Test for Argemone Oil (of extracted fat)	IS 548 part II	Qualitative
o.	Nutmeg	Mace in Nutmeg	STP /189, ISSUE NO. 01 ISSUE DATE : 05/01/2018	1%-5%
		Calcium as CaO	IS 1797	0.1%-10%
p.	Dried Mango Slices	Damaged Slices	STP/038,ISSUE NO. 03, ISSUE DATE : 03/02/2017	0.1%-10%
		Seed coating	STP/ 190, ISSUE NO. 01, ISSUE DATE : 04/01/2018	0.1%-10%
q.	Dried Mango Powder	Acidity As anhydrous tartaric acid	IS 13242	5%-30%
r.	Ajowan	Broken Fruit Damaged Shrivelled, Discoloured	IS 4403	0.1%-5%
s.	Garlic	Volatile organic sulphur compound	IS 16358	0.1%-1%
		Peroxidase Test	FSSAI manual of Methods (Fruits & Vegetable Products)	Qualitative
t.	White Pepper	Black Berries	IS 16521	0.1%-10%
u.	Mustard Powder Coriander Powder	Starch	IS 7807	0.5%-5%
2.	<b>Sugar &amp; Sugar Products</b>			
a.	Sugar and Sugar Syrup	Moisture	IS 15279	0.1%-40%
		Sulphated Ash	IS 15279	0.01%-10%
		Sulphur di Oxide	IS 15279	10mg/Kg-500mg/Kg
		Arsenic	IS 1151	Limit Test
		Conductivity Ash	IS 15279	0.01%-5%
		Starch	IS 15279	0.5%-20%
		Sucrose	IS 15279	15-100%

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067** (in lieu of T-2706 & T-2842)

Page 11 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Water Insoluble Matter	IS 15279	0.5%-50%
		Extraneous Matter	FSSAI manual of Methods (Beverages, Sugar & Sugar products & Confectionery Products)	0.01%-2%
		Ash insoluble in dilute hydrochloric acid	IS 6287	0.05%-2.0%
		Calcium Oxide	FSSAI manual of Methods (Beverages, Sugar & Sugar products & Confectionery Products)	1.0 mg/100g-1000mg/100g
		Total Ash	IS 1168	0.1%-6%
<b>3.</b>	<b>Honey &amp; Honey Products</b>			
<b>a.</b>	<b>Honey</b>	Acidity	IS 4941	0.05%-5%
		Ash	IS 4941	0.2%-5%
		Specific Gravity	IS 4941	0.5-2
		Moisture	IS 4941	10%-40%
		Reducing Sugars	IS 4941	0.1%-80%
		Sucrose	IS 4941	1%-50%
		Glucose fructose ratio	IS 4941	0.8%-10%
		Fiehe's Test	IS 4941	Qualitative
		Aniline Chloride Test	IS 4941	Qualitative
		Total Count of Pollen and Plant elements	IS 4941	10000/g-100000/g
		HMF	IS 4941	20 mg/Kg -250mg/Kg
		Optical density	IS 4941	0.1-0.5
		Water insoluble matter	IS 4941	0.1%-5%
<b>4.</b>	<b>Tea</b>	Total Ash	IS 3633	0.1%-10%
		Water Soluble Ash	IS 3633	20%-55%
		Alkalinity of Water Soluble Ash	IS 3633	0.5%-4%
		Acid Insoluble Ash	IS 3633	0.1%-2%
		Water Extract	IS 3633	5%-50%

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 12 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude Fibre	IS 3633	5%-30%
		Water Soluble ash of Total Ash	IS 3633	10%-60%
		Water Extract	IS 3633	10%-50%
<b>5.</b>	<b>Coffee &amp; Cocoa Products</b>			
<b>a.</b>	<b>Coffee Chicory Coffee (Roasted Coffee, Ground Coffee, Soluble Coffee Powder, Chicory Coffee, Coffee-Chicory Mixture, Instant Coffee-Chicory Mixture) (Roasted Coffee, Ground Coffee, Soluble Coffee Powder, Chicory Coffee, Coffee-Chicory Mixture, Instant Coffee-Chicory Mixture)</b>	Moisture	IS 3077	0.5%-15%
		Total Ash	IS 3077	0.1%-15%
		Acid Insoluble Ash	IS 3077	0.01%-3%
		Water Soluble Ash	IS 3077	1%-80%
		Alkalinity of Water Soluble Ash	IS 3077	0.5%-4%
		Aqueous Extract	IS 3077	1%-60%
		Caffeine	IS 3077 IS 2791	0.1%-5%
		Solubility in boiling water	IS 2791	Qualitative
		Solubility in Cold water at 16 ± 2°C	IS 2791	Qualitative
	Addition of edible fats and oil or sugar (Glucose or sucrose)	FSSAI manual of Methods (Beverages, Sugar & Sugar products & Confectionery Products)	0.2%-5%	
<b>6.</b>	<b>Common Salt/ Iodized Salt</b>			
<b>a.</b>	<b>Iodized Salt, Vacuum Evaporated Iodized salt and Refined Iodized Salt, Common Salt</b>	Moisture	IS 7224	0.1%-10%
		Water insoluble matter	IS 7224	0.01%-5%
		Chloride Content	IS 7224	1%-100%
		Matter Soluble in water other than NaCl	IS 7224	0.1%-5%
		Iodine Content	IS 7224	5mg/Kg-100mg/Kg
		Sulphate as SO <sub>4</sub>	IS 7224	0.05%-5%
<b>7.</b>	<b>Edible oils &amp; fats</b>			
<b>a.</b>	<b>Oils and Fats and Blended Edible</b>	Moisture Content & Volatile matter	IS 548	0.05%-5%

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 13 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Oils</b>	Insoluble Impurities	IS 548	0.01%-2%
		Acid Value	IS 548	0.05-20mgKOH/g of oil
		FFA	IS 548	0.025%-25%
		Unsaponifiable Matter	IS 548	0.05%-5%
		Flash Point	IS 1448	60 °C -300°C
		Melting Point	IS 548	25 °C-60°C
		Refractive Index	IS 548	1.25-1.8
		Specific Gravity @ 30 °C	IS 548	0.5-1.5
		Iodine Value	IS 548	1gl/100g -200gl/100g
		Saponification Value	IS 548	50-300mg of KOH/g
		Acetyl Value and Hydroxyl Value	IS 548	50-300
		Allyl Thiocynate	IS 548	0.01%-5%
		Reichert Meissl Value	IS 548	1-40
		Polenske Value	IS 548	0-20
		Peroxide Value	IS 548	0.1-10 milli-eqv/1000g
		Presence of Cotton Seed Oil	IS 548	Qualitative
		Presence of Linseed Oil	IS 548	Qualitative
		Presence of Karanja Oil	IS 548	Qualitative
		Presence of Argemone Oil	IS 548	Qualitative
		Presence of Hydrocyanic Acid	IS 548	Qualitative
	Bellier Turbidity Temperature Test	IS 548	10-70°C	
	Presence of Mineral Oil	IS 548	Qualitative	
	Presence of Kusum Oil	IS 548	Qualitative	
	Presence of Castor Oil	IS 548	Qualitative	
	Presence of Neem Oil	IS 548	Qualitative	
	Presence of Oil Soluble Colours	IS 548	Qualitative	

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 14 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fat	IS 548	Qualitative
		Tricresyl Phosphate in Edible Oil	IS 548	Qualitative
		Total Fatty Acid (Profile)	IS 548	1-100%
		Phosphorous Content	IS 4276	Qualitative
		Insoluble Bromide	IS 4276	Qualitative
		Hexane	IS 4276 & FSSAI manual of Methods (Oils & Fats)	1.0 mg/kg -20mg/kg
		The clarity of the material after keeping the filtered sample at 30 C for 24 h/40 °C for 24 hrs	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Semi Siccative oil test	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Olive pomace oil test	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Teaseed seed oil test	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Sesame seed oil test	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Polybromide	FSSAI manual of Methods (Oils & Fats)	Qualitative
		Orazanol Content in Rice bran oil	FSSAI manual of Methods (Oils & Fats)	0.1 - 2.0%
		Presence of Animal Fat in Vegetable fat	IS 548 part 2 sec. 21	Qualitative
		Colour produce by Baudouin Test on Lovibond scale in Vanaspati	IS 10633	Qualitative
		Synthetic Vitamin A in	IS 5886 FSSAI manual of	5 IU/g -100 IU/g

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067** (in lieu of T-2706 & T-2842)

Page 15 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Vanaspati	Methods (Oils & Fats)	
<b>8.</b>	<b>Cereals, Pulses &amp; Cereal Products</b>			
<b>a.</b>	<b>Food Grains and Milled Food Grains</b>	Moisture	IS 4333: Part 2	1%-20%
		Refraction (foreign matter, other food grains, damaged grains, insect damaged grain, fragments, slightly damaged, red grains, kernels with husk, shriveled or immature grains, varieties admixture)	IS 4333: Part 1	0.1%-20%
		Weevilled Grain	IS 4333 (part 1)	1%-20%
		Uric Acid	QLV/010, ISSUE NO. 03, ISSUE DATE: 04-09-2017	10 mg/Kg -300mg/Kg
		Protein	IS 7219	0.1%-60%
		Fat	IS 8211	0.1%-60%
		Crude Fiber	IS 10226: Part 1	0.5%-20%
<b>b.</b>	<b>Soya Flour</b>	Urease Activity	IS 7837	0.05 mgN2/g/min - 2mgN2/g/min
		Ash	IS 1155	0.1%-10%
		Acid Insoluble Ash	IS 1155	0.05%-2%
<b>c.</b>	<b>Wheat Atta Suji or Rava Wheat Flour (Maida)</b>	Moisture	IS 1155	1%-20%
		Total Ash	IS 1155	0.1%-10%
		Acid Insoluble Ash	IS 1155	0.05%-2%
		Gluten	IS 1155	1%-30%
		Alcoholic Acidity	IS 1155	0.01%-1%
		Crude Fibre	IS 1155	1%-20%
		Granularity	IS 1155	Qualitative
<b>d.</b>	<b>Besan</b>	Moisture	IS 1009	1%-20%
		Total Ash	IS 1009	0.1%-10%

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 16 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acid Insoluble Ash	IS 1009	0.05%-2%
		Protein	IS 7219	0.1%-30%
		Test for Lakh Dal	FSSAI Manual of Methods (Cereal and Cereal Products)	Qualitative
		Other Pulses by Microscopic analysis	IS 2400	Qualitative
<b>9.</b>	<b>Bakery &amp; Confectionery Products</b>			
<b>a.</b>	<b>Namkeens Fried Potato Chips Fried Banana Chips</b>	Peroxide Value	IS 3508	0.1 meq./ 1000g -10meq./ 1000g
		Moisture	IS 15271	1%-10%
		Acid Insoluble Ash	IS 15271	0.05%-2%
		Fat	IS 15271	0.1%-80%
		Acid Value of Extracted Fat	IS 15271	0.05%-5%
<b>b.</b>	<b>Biscuits Wafer Biscuits</b>	Moisture	IS 1011	0.1%-10%
		Acid Insoluble Ash	IS 1011	0.02%-0.05%
		Acidity of extracted fat	IS 1011	0.05%-2%
		Dietary Fibre	AOAC 992.16	1%-20%
<b>10.</b>	<b>Milk and Milk Products</b>			
<b>a.</b>	<b>Butter (Table Butter, Desi Cooking Butter)</b>	Moisture	IS 3507	2%-20%
		Milk Fat	IS 3507	60%-90%
		Milk Solid not fat	FSSAI manual of Methods (Milk & Milk products)	0.5%-5%
		Titrateable Acidity (as Lactic acid)	IS 3507	0.02-0.08
		Curd	IS 3507	0.2%-5%
		Common Salt	IS 3507	0.2%-5%
<b>b.</b>	<b>Partly Skimmed and Skimmed Condensed Milk (Sweetened Condensed Milk, Sweetened</b>	Total Solids	IS 11622	20%-99%
		Milk Fat	IS 11762	0.2%-25%
		Milk Protein in milk solids not fat	FSSAI manual of Methods (Milk & Milk products)	1%-40%
		Titrateable Acidity (as Lactic acid)	IS 11766	0.2%-5 %



Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067** (in lieu of T-2706 & T-2842)

Page 17 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Condensed Partly Skimmed Milk, Sweetened Condensed Skimmed Milk, Sweetened Condensed High Fat Milk)</b>	Sucrose	IS 4079	5%-60%
<b>c.</b>	<b>Whole Milk Powder, Partly Skimmed Milk Powder, Skimmed Milk Powder</b>	Total Solids	IS 11622	90%- 99%
		Moisture	IS 11623	0.5%-8.0%
		Total Ash	IS 1165	0.5%-10%
		Titrateable Acidity (as Lactic acid)	IS 1165	0.2% -5%
		Milk Protein in milk solids not fat	FSSAI manual of Methods (Milk & Milk products)	1%- 40%
		Milk Fat	IS 11721	0.2%-30%
		Insolubility Index	IS 12759	0.5ml- 30 ml
<b>d.</b>	<b>Packaged Pasteurized Milk (Buffalo &amp; Cow)</b>	Neutralizer	IS 1479	Qualitative
		Milk Fat	IS 1479	1%-30%
		Milk Solids not Fat	IS 1479	3%-30%
		Phosphatase	IS 8479	Qualitative
<b>e.</b>	<b>UHT Treated Condensed Milk</b>	Total Solids	IS 11622	90%- 99 %
		Titrateable Acidity (as Lactic acid)	IS 1166	0.1%-1%
		Fat	IS 11721	0.2%-25%
		Sucrose	IS 4079	5%-60%
<b>f.</b>	<b>Ghee/ Milk Fat/ Butter Oil</b>	B.R. reading at 40 °C	IS 3508	30-90
		Moisture	IS 3508	0.05%-5.0%
		Milk Fat	FSSAI manual of Methods (Milk & Milk products)	0.5%-100.0%
		Reichert Value	IS 3508	1-35
		F.F.A as Oleic Acid	IS 3508	0.025%-25%
		Peroxide Value	IS 3508	0.1-10 milleq/1000g
		Boudouins Test	IS 3508	Qualitative

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 18 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
g.	Dahi	Milk Fat	FSSAI manual of Methods (Milk & Milk products)	0.5%-10%
		Milk Solids not Fat	FSSAI manual of Methods (Milk & Milk products)	5%-20%
11.	<b>Ready to Eat/ Packaged Food</b>			
a.	Ready to Eat	Carbohydrate	USDA Agricultural Handbook 74	1%-100%
		Protein	IS 7219	1%-60%
		Crude fibre	IS 10226 Part2	0.5%-20%
		Dietary fibre	AOAC 992.16	0.5%-50%
		Energy value	USDA Agricultural Handbook 74	4 KCalories -900KCalories
		Cholesterol	QL/V/014, ISSUE NO. 03, ISSUE DATE: 03-04-2016	10mg/Kg -1000mg/Kg
		Fat-Saturated, unsaturated	AOAC 969.33	10mg/Kg -1000mg/Kg
		Sodium	IS 12760	2mg/Kg – 100mg/Kg
		Potassium	IS 12760	2mg/Kg – 100mg/Kg
12.	<b>Fruit &amp; Vegetable Products</b>			
a.	Mango Pulp, Puree, Sweetened Mango Pulp, Puree, Fruit Pulp/ Puree Of Other Fruits, Tomato Juice/Paste/ Sause, Puree, Concentrated Fruit/ Vegetable Juices, Pulp, Puree, Soup Powder, Tamarind Pulp/Puree and Concentrated,	Hydrocyanic Acid	FSSAI manual of Methods (Cereal & Cereal Products)(AOAC 915.03)	1 mg/kg - 25mg/kg
		Acid Insoluble Ash	FSSAI manual of Methods (Fruits & Vegetable Products)	0.05%-2.0%
		Acidity (Acetic Acid / Citric Acid / Lactic Acid)	FSSAI manual of Methods (Fruits & Vegetable Products) AOAC 942.15	0.1 %- 6%
		Added coloring matter	FSSAI manual of Methods (food additives)	Qualitative
		Benzoic Acid	Lab manual of FSSAI (food additives) AOAC 979.08 by HPLC	10 mg/kg -2000 mg/kg
		Drained weight	FSSAI manual of Methods	40%-100%



**Laboratory** **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number** **TC-7067** (in lieu of T-2706 & T-2842)

**Page 20 of 39**

**Validity** **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			(Fruits & Vegetable Products)	
		Total Ash	FSSAI manual of Methods (Fruits & Vegetable Products)	0.1% -25%
		Total Soluble Solids	FSSAI manual of Methods (Fruits & Vegetable Products) IS 13815	5.0 %- 20.0%
		Total Sugars	FSSAI manual of Methods (Fruits & Vegetable Products) IS 6287	5.0% - 80.0%
		Sorbic Acid	FSSAI manual of Methods (Food Additives) By HPLC AOAC 979.08	10 mg/kg -2000mg/kg
		Potassium Sorbate	FSSAI manual of Methods (Food Additives) By HPLC	10 mg/kg -2000mg/kg
		Sodium Chloride content in brine	FSSAI manual of Methods (fruits & vegetables)	5.0%-50.0%
		% of Fruit Juice content in orange juice	FSSAI manual of Methods (fruits & vegetables)	10.0%-50.0%
		Added Nutritive Sweetner (Sodium Saccharin)	FSSAI manual of Methods (Fruits & Vegetables)	5.0%-80.0%
<b>13.</b>	<b>Beverages (Alcoholic / Non-alcoholic)</b>			
<b>a.</b>	<b>Alcoholic Beverages</b>			
	<b>Toddy, Rum, Gin, Whisky, Brandy, Beer, Vodka, Wine, Fenny (Cashew &amp;</b>	Alcoholic content	FSSAI manual of Methods of (Alcoholic Beverages) IS 3752	2.5%-50.0%
		Total acid as Tartaric acid (expressed in terms of 100 litres of absolute alcohol)	FSSAI manual of Methods of (Alcoholic Beverages) IS 3752	0.05g/100L-5.0g/100L
		Volatile acid as Acetic acid expressed in terms	FSSAI manual of Methods of (Alcoholic Beverages)	0.05g/100L-5.0g/100L

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067** (in lieu of T-2706 & T-2842)

Page 21 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Coconut)	of 100 litres of absolute alcohol)	IS 3752	
<b>b.</b>	<b>Non- Alcoholic Beverages</b>			
	<b>Carbonated Water</b>	Caffeine	AOAC 962.13	10 mg/kg -200mg/kg
		Quinine salts	FSSAI manual of Methods (Food additives)	10mg/kg-200 mg/kg
		Saccharin Sodium	FSSAI manual of Methods (Food additives)	10 mg/kg -200mg/kg
		Acesulfame-K	FSSAI manual of Methods (food additives)	20 mg/kg -800 mg/kg
		Aspartame (methyl ester)	FSSAI manual of Methods (Food additives)	20 mg/kg -1000 mg/kg
		Sucralose	QL/V/042, ISSUE NO. 01, ISSUE DATE: 19.05.2017	10 mg/kg -500 mg/kg
<b>15.</b>	<b>Food additives &amp; preservatives</b>			
<b>a.</b>	<b>Fruits, Vegetable and its Product</b>	Ponceau 4R	FSSAI manual of Methods (Food additives)	10 mg/kg -1000mg/kg
		Carmoisine	FSSAI manual of Methods (Food additives)	10 mg/kg -1000mg/kg
		Erthrosine	FSSAI manual of Methods (Food additives)	10 mg/kg -1000mg/kg
		Tartrazine	FSSAI manual of Methods (Food additives)	10 mg/kg -1000mg/kg
		Benzoate	FSSAI manual of Methods (Food additives)	10 mg/kg -1000mg/kg
		Sorbates	FSSAI manual of Methods (Food additives)	10 mg/kg -2000mg/kg
		Sulfities	FSSAI manual of Methods (Food additives)	5 mg/kg -5000mg/kg
		Sunset Yellow FCF	FSSAI manual of Methods (Food additives)	10 mg/kg -500mg/kg
		Brilliant Blue FCF	FSSAI manual of Methods (Food additives)	10 mg/kg -500mg/kg

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 22 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>II. NUTRACEUTICALS &amp; FUNCTIONAL FOODS</b>				
1.	<b>Ready to Eat / Packaged Food &amp; Ready to Eat / Nutraceuticals</b>	Vitamin B1	IS 5398 QL/V/01, ISSUE NO. 01, ISSUE DATE: 15.05.2013	1 mg/kg – 125mg/Kg
		Vitamin B2	IS 5399 QL/V/01,ISSUE NO. 01,ISSUE DATE: 15.05.2013	1 mg/Kg – 125 mg/Kg
		Niacinamide	AOAC 961.14 QL/V/01, ISSUE NO. 01,ISSUE DATE: 15.05.2013	1 mg/Kg – 125 mg/Kg
		Vitamin A	IS 5886	1 mg/Kg – 100 mg/Kg
		Vitamin D	IS 5835	1 mg/Kg – 100 mg/Kg
		Vitamin C	IS 5838 QL/V/01, ISSUE NO. 01, ISSUE DATE: 15.05.2013	1 mg/100g – 100 mg/100g
		Sucrose	FSSAI manual of Methods (Beverages, Sugar & Sugar products & Confectionery Products) (IS 6287)	5% – 70%
		Monosodium Glutamate	AOAC 970.37	0.1% – 10%
<b>III. RESIDUE IN FOOD PRODUCTS</b>				
1.	<b>Spices &amp; Condiments, Coffee Tea, Sugar, Syrup and Honey, Food Grains, Milled Food</b>	Lead	STP/46-A,ISSUE NO.03, ISSUE DATE:02/12/2015& STP/46-B, ISSUE NO. 03, ISSUE DATE : 30/03/2017	0.01mg/Kg – 10 mg/Kg
		Arsenic	STP/46-A, ISSUE NO. 03, ISSUE DATE: 02/12/2015	0.01mg/Kg – 10 mg/Kg

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 23 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Grains, Bakery Products, Milk and Milk Products, Ready to Eat/ Nutraceuticals</b>		& STP/46-B,ISSUE NO. 03, ISSUE DATE : 30/03/2017	
		Cadmium	STP/46-A, ISSUE NO. 03, ISSUE DATE: 02/12/2015 & STP/46-B, ISSUE NO.03, ISSUE DATE: 30/03/2017	0.01 mg/Kg – 10 mg/Kg
		Mercury	STP/46-A, ISSUE NO. 03, ISSUE DATE: 02/12/2015 & STP/46-B,ISSUE NO. 03, ISSUE DATE: 30/03/2017	0.01 mg/Kg – 10 mg/Kg
		Nickel	STP/46-A,ISSUE NO. 03, ISSUE DATE : 02/12/2015	0.5 mg/Kg – 10 mg/Kg
		Chromium	STP/46-A, ISSUE NO. 03, ISSUE DATE : 02/12/2015	0.01 mg/Kg – 10 mg/Kg
		Copper	STP/46-A, ISSUE NO. 03, ISSUE DATE : 02/12/2015	1 mg/Kg -300 mg/Kg
		Tin	STP/46-A, ISSUE NO. 03, ISSUE DATE : 02/12/2015	1 mg/Kg -300 mg/Kg
		Zinc	STP/46-A, ISSUE NO. 03, ISSUE DATE : 02/12/2015	1 mg/Kg -300 mg/Kg
<b>2.</b>		<b>Fruits, Vegetable and its Products</b>	Lead	AOAC 2013.06 & AOAC 986.15
	Arsenic		AOAC 2013.06 & AOAC 986.15	0.01mg/Kg – 10 mg/Kg
	Cadmium		AOAC 2013.06 & AOAC 986.15	0.01 mg/Kg – 10 mg/Kg
	Mercury		AOAC 2013.06 AOAC 971.21	0.01 mg/Kg – 10 mg/Kg
	Nickel		AOAC 975.34	0.5 mg/Kg – 10 mg/Kg
	Chromium		AOAC 2011.19	0.01 mg/Kg – 10 mg/Kg
	Copper		AOAC 999.11	1 mg/Kg -300 mg/Kg
	Tin		AOAC 999.11 ICP-MS	1 mg/Kg -300 mg/Kg

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 24 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Zinc	AOAC 999.11	1 mg/Kg -300 mg/Kg
3.	<b>Food Grains and Milled Food Grains</b>	Ochratoxin A	STP/159, ISSUE NO. 01,ISSUE DATE : 14/11/2015	0.0025 mg/Kg - 0.250mg/Kg
		Hydrocyanic Acid	STP/111, ISSUE NO.02, ISSUE DATE: 09/04/2015	1 mg/Kg - 10 mg/kg
		Total Aflatoxin	STP/100, ISSUE NO. 03, ISSUE DATE: 21/12/2015	0.0020 mg/Kg - 0.250mg/Kg
4.	<b>Food Grains and Milled Food Grains</b>	Aldrin	STP/172, ISSUE NO. 01, ISSUE Date: 11/12/2017	0.01 mg/Kg -1 mg/Kg
		Endosulfan	STP/172, ISSUE NO. 01, ISSUE DATE : 11/12/2017	0.01 mg/Kg -1mg/Kg
		Chlorpyrifos	STP/174, ISSUE NO. 01, ISSUE DATE: 18/12/2017	0.005 mg/Kg -0.5mg/Kg
		Monocrotophos	STP/174, ISSUE NO. 01, ISSUE DATE: 18/12/2017	0.005 mg/Kg -0.5mg/Kg
		Phorate	STP/174, ISSUE NO. 01, ISSUE DATE: 18/12/2017	0.005 mg/Kg -0.5mg/Kg
5.	<b>Chilli Powder</b>	Total Aflatoxin (B1, B2, G1, G2)	STP/100, ISSUE NO. 03, ISSUE DATE: 21/12/2015	0.0025 mg/Kg - 0.250 mg/kg
6.	<b>Milk and Milk Products</b>	Aflatoxin M1	STP/107, ISSUE NO. 02, ISSUE DATE: 02/06/2015	0.5 ug/Kg
		Melamine	STP/156, ISSUE NO. 01, ISSUE DATE: 03/09/2015	0.10 mg/Kg – 1 mg/Kg
IV.	<b>WATER</b>			
1.	<b>Water, Natural Mineral Water , Packaged Drinking Water, Drinking Water</b>	pH	IS 3025 (Part 11)	4-10
		Turbidity	IS 3025 (Part 10)	0.1 - 10 NTU
		Odour	IS 3025 (Part 5)	Qualitative
		Colour	IS 3025 (Part 4)	1 - 25 Hazen Units
		Total dissolved Solids	IS 3025 (Part 16)	0.8 mg/L - 2500mg/L



**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 25 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alkalinity	IS 3025 (Part 23)	10 mg/L - 800 mg/L
		Sulphate	IS 3025 (Part 24)	2 mg/L - 500 mg/L
		Chloride	IS 3025 (Part 32)	5 mg/L - 500 mg/L
		Nitrite	IS 3025 (Part 34)	0.01 mg/L -10 mg/L
		Nitrate	IS 3025 (Part 34)	2 mg/L -100 mg/L
		Sulfide	IS 3025 (Part 29)	0.03 mg/L - 5mg/L
		Fluoride	IS 3025 (Part 60)	0.1 mg/L - 5 mg/L
		Cyanide	IS 3025 (Part 27)	0.005 mg/L -1mg/L
		Phenolic Compounds (as C6H5OH)	IS 3025 (Part 43)	0.001 mg/L -5 mg/L
		Phenolic Compounds (as C6H5OH)	EPA: 420.1	0.001 mg/L -5 mg/L
		Ammonia	IS 3025 (Part 34) Method 2.3	0.075 mg/L -2 mg/L
		Calcium	IS 3025 (Part 40)	2 mg/L – 300 mg/L
		Magnesium	IS 3025 (Part 46)	2 mg/L – 200 mg/L
		Total Hardness (as CaCo3)	IS 3025 (Part 21)	4 mg/L – 800 mg/L
		Mineral oil	IS 3025 (Part 39)	0.001 mg/L -5 mg/L
		Sodium	IS 3025 (Part 45)	0.01 mg/L – 400 mg/L
		Residual Chlorine	IS 3025 (Part 26)	0.1 mg/L – 5 mg/L
		Anionic surface active agents	IS 13428 (Annex K)	0.01 mg/L -5 mg/L
		Sulphate	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017	2mg/L – 400 mg/L
		Nitrite	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017	0.01 mg/L -10 mg/L
		Nitrate	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017	2 mg/L -100 mg/L
		Fluoride	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017	0.1 mg/L – 5 mg/L
		Bromate	ISO 15061 : 2001 QL/V/036, ISSUE NO. 01, ISSUE DATE: 30.03.2017	0.0025 mg/L – 0.5mg/L

**Laboratory** **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number** **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 26 of 39**

**Validity** **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	<b>Water for Food Processing Industries</b>	pH	IS 3025 (Part 11)	4 – 9.5
		Turbidity	IS 3025 (Part 10)	0.1 NTU – 10 NTU
		Colour	IS 3025 (Part 4)	1 Hazen Units – 25 Hazen Units
		Total Solids	IS 3025 (Part 16)	0.8 mg/L – 2500mg/L
		Total Hardness (as CaCo3)	IS 3025 (Part 21)	4 mg/L – 800 mg/L
		Calcium	IS 3025 (Part 40)	2 mg/L – 300 mg/l
		Magnesium	IS 3025 (Part 46)	2 mg/L – 200 mg/L
		Sulphate	IS 3025 (Part 24)	2 mg/L – 500 mg/L
		Chloride	IS 3025 (Part 32)	0.5 mg/L – 500 mg/L
		Nitrate (as N)	IS 3025 (Part 34)	2 mg/L -100 mg/L
		Fluoride	IS 3025 (Part 60)	0.1 mg/L – 5 mg/L
		Cyanide	IS 3025 (Part 27)	0.005mg/L -1mg/L
		Phenolic Substances	IS 3025 (Part 43)	0.001mg/L -5 mg/L
		Phenolic Substances	EPA:420.1	0.001mg/L -5 mg/L
		Odour	IS 3025 (Part 5)	Qualitative
			Fluoride	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017
	Sulphate	QL/V/037, ISSUE NO. 01, ISSUE DATE: 10.04.2017	2 mg/L – 600 mg/L	
3.	<b>Water</b>	Chemical Oxygen Demand	IS 3025 Part-58	1mg/L – 1000mg/L
		Biochemical Oxygen Demand	IS 3025 Part-44	1mg/L – 500mg/L
<b>V.</b>	<b>RESIDUE IN WATER</b>			
a.	<b>Natural Mineral Water, Packaged Drinking Water, Drinking Water &amp;</b>	225 Trichloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L-2000µg/L
		244 Trichloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L -2000µg/L
		2255 Tetrachloro	STP/345, ISSUE NO. 02,	0.03µg/L -2000µg/L

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 27 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Water for Food Processing Industry</b>	biphenyl	ISSUE DATE : 10/08/2016	
		22455 Pentachloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L -2000µg/L
		223445 Hexachloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L -2000µg/L
		224455 Hexachloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L-2000µg/L
		2234455 Heptachloro biphenyl	STP/345, ISSUE NO. 02, ISSUE DATE : 10/08/2016	0.03µg/L -2000µg/L
		Naphthalene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L-2000µg/L
		Acenaphthylene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Acenaphthene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Fluorene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Anthracene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03 µg/L -2000µg/L
		Phenanthrene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Fluoranthene	STP/346, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Pyrene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Benzo(a)anthracene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Chrysene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Benzo(a)pyrene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
	Benzo(b)fluoranthene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L	
	Benzo(k)fluoranthene	STP/346, ISSUE NO. 02,	0.03µg/L -2000µg/L	

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067 (in lieu of T-2706 & T-2842)**

**Page 28 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISSUE DATE : 06/03/2015	
		Indeno(123,cd)pyrene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Dibenzo (a,h) anthracene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Benzo (ghi)perylene	STP/346, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		α HCH	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		β HCH	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		γ HCH	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		δ HCH	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Aldrin	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		op DDE	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03 µg/L -2000µg/L
		β – Endosulfan	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Dieldrin	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		ppDDE	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		ppDDD	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		α Endosulfan	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		opDDD	STP/344, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		opDDT	STP/344, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Endosulfan sulfate	STP/344, ISSUE NO. 02,	0.03µg/L -2000µg/L

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 29 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISSUE DATE: 06/03/2015	
		ppDDT	STP/344, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		2,4-D	STP/344, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Monochrotophos	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Phorate	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Atrazine	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Atrazine	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Paraxon methyl	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Parathion methyl	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Alachlor	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Alachlor	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Isoproturon	STP/348, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Phoratesulphone	STP/347, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Butachlor	STP/347, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Malathion	STP/347, ISSUE NO. 02, ISSUE DATE : 06/03/2015	0.03µg/L -2000µg/L
		Phorate sulfoxide	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Chlorpyriphos	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Chlorpyriphos	STP/347, ISSUE NO. 02,	0.03µg/L -2000µg/L

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex,  
4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** (in lieu of T-2706 & T-2842)

**Page 30 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**

**Last Amended on 13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISSUE DATE: 06/03/2015	
		Ethion	STP/347, ISSUE NO. 02, ISSUE DATE: 06/03/2015	0.03µg/L -2000µg/L
		Aluminium	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.005mg/L -1mg/L
		Antimony	STP/309, ISSUE NO. 03, ISSUE DATE: 17/12/2015	0.005mg/L-5mg/L
		Arsenic	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.01mg/L-1mg/L
		Barium	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.01mg/L-1mg/L
		Borates (as B)	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.01mg/L-10mg/L
		Cadmium	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.001mg/L-10mg/L
		Chromium as Cr	STP/309, ISSUE NO. 03, ISSUE DATE: 17/12/2015	0.03mg/L-10mg/L
		Copper	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.03mg/L- 10mg/L
		Lead	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.001mg/L-10mg/L
		Manganese	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.05mg/L – 1mg/L
		Mercury	STP/309, ISSUE NO. 03, ISSUE DATE: 17/12/2015	0.0005mg/L-5mg/L
		Nickel	STP/309, ISSUE NO. 03, ISSUE DATE: 17/12/2015	0.01mg/L-10mg/L
		Selenium	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.001mg/L-10mg/L
		Silver	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.001mg/L -1mg/L
		Zinc	STP/309, ISSUE NO. 03, ISSUE DATE : 17/12/2015	0.1mg/L-10mg/L
		Iron	STP/309, ISSUE NO. 03,	0.01mg/L – 25mg/L

**Vinay Kumar Tyagi**  
Convenor

**N. Venkateswaran**  
Program Director



Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 32 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		mass		
		pH of 50 percent aqueous suspension	IS 5383	3 – 12
		Foaming power <sup>1</sup>	IS 5383	50.0ml-200.0ml
		Heavy metals (as Lead), parts per million	IS 5383	Qualitative
		Arsenic (as As <sub>2</sub> O <sub>3</sub> ), parts per million	IS 5383	Qualitative
<b>3.</b>	<b>Shampoo</b>	Physical characteristics	IS 7884	Qualitative
		Non-volatile alcohol soluble matter, percent by mass	IS 7884, Annex B	5 - 50 %
		pH	IS 7884, Annex C	2.0 – 9.0
		Foam height for two percent solution	IS 7884, Annex D	100mm - 300mm
<b>4.</b>	<b>Hair Oils</b>	Acid value	IS 7123, Annex A-2	0.5 – 5
		Peroxide value	IS 7123, Annex A-4	0.5 meq/Kg - 5meq/Kg
<b>5.</b>	<b>Creams and Lotions</b>	Thermal stability	IS 6608, Annex A	Qualitative
		pH	IS 6608, Annex B	1 – 12
		Total Fatty Substance	IS 6608, Annex C	1 w/w%– 80 w/w%
		Total residue	IS 6608, Annex D	1 w/w% – 80 w/w%
<b>6.</b>	<b>Bathing Bar and Toilet soap</b>	Total fatty matter	IS:13498, Annex H, IS 286	1 w/w% – 90 w/w%
		Free caustic alkali (as NaOH)	IS:286	0.01 w/w% – 5 w/w%
		Free carbonated alkali	IS:286	0.01 w/w% – 1 w/w%
<b>VIII.</b>	<b>AYUSH PRODUCT</b>			
<b>1.</b>	<b>Ayurvedic Drugs</b>			
<b>a.</b>	<b>Turmeric Whole</b>	Foreign Matter	Ayurvedic Pharmacopoeia of India	0.1%w/w - 10%w/w
		Total Ash	Ayurvedic Pharmacopoeia of India	0.1-%w/w 40% w/w



Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 33 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acid Insoluble Ash	Ayurvedic Pharmacopoeia of India	0.1 %w/w - 20%w/w
		Alcohol Soluble	Ayurvedic Pharmacopoeia of India	2 %w/w - 80% w/w
		Water soluble Extractive	Ayurvedic Pharmacopoeia of India	2%w/w - 80% w/w
		Volatile Oil	Ayurvedic Pharmacopoeia of India	0.5 %w/w -15% v/w
<b>b.</b>	<b>Asav / Arishta</b>	pH	Ayurvedic Pharmacopoeia of India	2.0 - 8.0
		Specific gravity	Ayurvedic Pharmacopoeia of India	0.75 -1.30
		Alcohol content	Ayurvedic Pharmacopoeia of India	3.0%v/v -15% v/v
<b>c.</b>	<b>Ayurvedic Powder</b>	Loss on drying	Ayurvedic Pharmacopoeia of India	1.0%w/w - 20% w/w
		pH (5.0% w/v solution)	Ayurvedic Pharmacopoeia of India	2.0 - 9.0
		Heavy metals (ICP-MS)		
		Lead	STP/46/I,ISSUE NO. 02,ISSUE DATE : 02/04/2015	0.01mg/Kg – 20mg/Kg
		Cadmium		0.01mg/Kg – 10mg/Kg
		Mercury		0.13mg/Kg-10mg/Kg
		Arsenic		0.5 mg/Kg - 20mg/Kg
		Chromium		0.01mg/Kg - 5mg/kg
<b>d.</b>	<b>Taila</b>	Refractive Index at 40 °C	Ayurvedic Pharmacopoeia of India	1.333 – 1.550
		Specific gravity at 40 °C	Ayurvedic Pharmacopoeia of India	0.800 – 1.000
		Acid value	Ayurvedic Pharmacopoeia of India	0.1-10
		Peroxide value	Ayurvedic Pharmacopoeia of India	0.1-15 meq./1000 g

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page **34 of 39**

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Heavy metals (ICP-MS)		
		Lead	STP/46/I, ISSUE NO. 02, ISSUE DATE: 02/04/2015	0.01 mg/kg – 20mg/kg
		Cadmium		0.01mg/kg – 10mg/Kg
		Mercury		0.13mg/kg-10mg/Kg
		Arsenic		0.5mg/Kg - 20mg/Kg
		Chromium		0.01mg/Kg - 5mg/kg
<b>e.</b>	<b>Cream</b>	Total solid	API, Part-I, Volume-I, Appendix 2.2.9, Page 143	2%w/w -80%w/w
		Total Fatty matter	IS 6608 : 2004, Annex C	1 %w/w - 80 %w/w
		Heavy metals (ICP-MS)		
		Lead	STP/46/I, ISSUE NO. 02, ISSUE DATE : 02/04/2015	0.01mg/Kg – 20 mg/Kg
		Cadmium		0.01mg/Kg - 10mg/Kg
		Mercury		0.13mg/Kg-10mg/Kg
		Arsenic		0.5 mg/Kg- 20mg/Kg
		Chromium		0.01mg/Kg - 5mg/kg
<b>f.</b>	<b>Syrup</b>	pH	Ayurvedic Pharmacopoeia of India	2.0 - 8.0
		Specific gravity	Ayurvedic Pharmacopoeia of India	0.90 -1.35
		Alcohol content	Ayurvedic Pharmacopoeia of India	3.0%v/v - 15%v/v
		Reducing sugar	Ayurvedic Pharmacopoeia of India	5 %w/v - 75%w/v
		Total Solid	Ayurvedic Pharmacopoeia of India	0.5%w/v - 75%w/v
		Heavy metals (ICP-MS)		
		Lead	STP/46/I, ISSUE NO. 02, ISSUE DATE : 02/04/2015	0.01mg/L - 20 mg/L
		Cadmium		0.01mg/L - 10 mg/L
		Mercury		0.13mg/L -10 mg/L
		Arsenic		0.5mg/L - 20 mg/L
<b>2.</b>	<b>Homeopathic Drugs</b>			
<b>a.</b>	<b>Mother Tincture</b>	Alcohol content	Homeopathic	25%v/v - 95 %v/v

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page **35 of 39**

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			pharmacopoeia of India	
		pH	Homeopathic pharmacopoeia of India	02-10
		Weight per ml	Homeopathic pharmacopoeia of India	0.7g – 1.00g
<b>IX.</b>	<b>DRUGS AND PHARMACEUTICALS</b>			
<b>1.</b>	<b>Allopathic Drugs</b>			
<b>a.</b>	<b>Pharmaceuticals Raw Materials (General Test)</b>	Solubility	Indian pharmacopoeia	Qualitative
			British Pharmacopoeia	Qualitative
			United States Pharmacopoeia	Qualitative
		Loss on Ignition	Indian Pharmacopoeia	0.1%w/w - 20 %w/w
			United States Pharmacopoeia	
		Sulphated ash	Indian Pharmacopoeia	0.05%w/w -1.0 %w/w
			British Pharmacopoeia	
			United States Pharmacopoeia	
		Melting Range	Indian Pharmacopoeia	40 - 300
			British Pharmacopoeia	
			United States Pharmacopoeia	
		pH	Indian Pharmacopoeia	01-12
			British Pharmacopoeia	
		Specific Optical Rotation & Optical Rotation	Indian Pharmacopoeia	-360 - +360°
		British Pharmacopoeia		
		United States Pharmacopoeia		
	Refractive Index	Indian Pharmacopoeia	1.300 - 1.700	
		British Pharmacopoeia		
		United States		

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 36 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Pharmacopeia	
		Heavy metals	Indian Pharmacopeia	Qualitative
			British Pharmacopoeia	
			United States Pharmacopeia	
		Water by KF	Indian Pharmacopeia	0.1 %w/w - 20 %w/w
			British Pharmacopoeia	
			United States Pharmacopeia	
		Loss on Drying	Indian Pharmacopeia	0.1%w/w - 20%w/w
			British Pharmacopoeia	
			United States Pharmacopeia	
<b>2.</b>	<b>Finished Products</b>			
<b>a.</b>	<b>(Tablet, Capsules, Syrup, Suspension)</b>	General Tests		
		Average weight	Indian Pharmacopeia	0.05g to 5g
		Uniformity of weight	Indian Pharmacopeia	0.2%w/w-15%w/w
		Disintegration Time	Indian Pharmacopeia	1min - 180 min
		Water by KF	Indian Pharmacopeia	0.1%w/w - 20 %w/w
		Weight per ml	Indian Pharmacopeia	0.90 -1.35
		pH	Indian Pharmacopeia	01-12
<b>b.</b>	<b>Amoxicillin Dispersible Tablet</b>	Identification By IR	Indian Pharmacopeia	Qualitative
		Assay (by HPLC)	Indian Pharmacopeia	10 –150 % of Claim (w/w)
<b>c.</b>	<b>Amoxicillin Capsule</b>	Identification A by IR	Indian Pharmacopeia	Qualitative
		Identification B by HPLC	Indian Pharmacopeia	Qualitative
		Dissolution by UV	Indian Pharmacopeia	40%w/w-100.0%w/w
		Assay by HPLC	Indian Pharmacopeia	10 - 150 % of claim (w/v)
<b>d.</b>	<b>Amoxicillin Oral Suspension</b>	Identification By HPLC	Indian Pharmacopeia	Qualitative
		Assay by HPLC	Indian Pharmacopeia	10 –150 % of Claim (w/w)
<b>e.</b>	<b>Paracetamol Tablet</b>	Identification A By IR	Indian Pharmacopeia	Qualitative
		Dissolution by UV	Indian Pharmacopeia	40%w/w -100.0%w/w
		Assay (By UV)	Indian Pharmacopeia	10 –150 % of Claim (w/w)

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page **37** of **39**

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
f.	<b>Paracetamol Syrup</b>	Assay %w/v	Indian Pharmacopeia	10 - 150 % of claim (w/v)
g.	<b>Albendazole Tablet</b>	Identification A (By TLC)	Indian Pharmacopeia	Qualitative
		Identification B (By UV)	Indian Pharmacopeia	Qualitative
		Assay (By UV)	Indian Pharmacopeia	10 –150 % of Claim (w/w)
h.	<b>Nicotine Gum USP</b>	Identification A (By TLC)	United States Pharmacopeia	Qualitative
		Identification B (By IR)	United States Pharmacopeia	Qualitative
		Identification C (By HPLC)	United States Pharmacopeia	Qualitative
		Uniformity Of Dosage Unit	United States Pharmacopeia	20 - 150 % of claim (w/v)
		Content Of Nicotine Polacrilex USP Equi. To claim (w/v) Nicotine Usp	United States Pharmacopeia	20 - 150 % of claim (w/v)
<b>3.</b>	<b>Surgical Products</b>			
a.	<b>Absorbent Cotton</b>	Identification A	Indian Pharmacopeia	Qualitative
		Identification B		Qualitative
		Identification C		Qualitative
		Acidity or alkalinity	Indian Pharmacopeia	Qualitative
		Absorbency (sinking time)	Indian Pharmacopeia	5-25 seconds
		Absorbency (water holding capacity)	Indian Pharmacopeia	5-50g/g
		Foreign fibers	Indian Pharmacopeia	Qualitative
		Fluorescence	Indian Pharmacopeia	Qualitative
		Ether-soluble substances	Indian Pharmacopeia	0.1% – 5%
		Water-soluble substances	Indian Pharmacopeia	0.1 %– 5%
		Sulphated ash	Indian Pharmacopeia	0.1% – 2%

Laboratory **Qualichem Laboratories, 501, Swami Samartha Commercial Complex, 4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

Certificate Number **TC-7067 (in lieu of T-2706 & T-2842)**

Page 38 of 39

Validity **01.04.2018 to 31.03.2020**

Last Amended on **13.04.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Loss on drying	Indian Pharmacopeia	0.1% – 15%
<b>b.</b>	<b>Surgical Dressing (Bandage Cloth , Rolled Bandage)</b>	Fluorescence	Drug & Cosmetics Rules 1940, sch. F- II, Amendment dated 28.10.1998 Page 342	Qualitative
		Weight per unit area	Drug & Cosmetics Rules 1940, sch. F- II, Amendment dated 28.10.1998 Page 342	15 g/m <sup>2</sup> – 100g/m <sup>2</sup>
		Weft	Drug & Cosmetics Rules 1940, sch. F- II, Amendment dated 28.10.1998 Page 342	25 threads/dm – 100 threads/dm
		Warp	Drug & Cosmetics Rules 1940, sch. F- II, Amendment dated 28.10.1998 Page 342	25 threads/dm – 200 threads/dm
<b>X.</b>	<b>ORES &amp; MINERALS</b>			
<b>1.</b>	<b>Manganese Ore</b>	Total Manganese (Mn)	IS 1473 (Volhard's Method)	5% – 75%
		Manganese Dioxide (MnO <sub>2</sub> )	IS 1473	1%– 90%
		Silica (SiO <sub>2</sub> )	IS 1473	1 %– 15%
		Iron as Fe	IS 1473 (Dichromate Method)	1% – 25%
<b>XI.</b>	<b>SOLID FUELS</b>			
<b>1.</b>	<b>Coal</b>	Total Ash	IS 1350 Part-I	2% to 60%
		Moisture (Air Dry Basis)	IS 1350 Part-I	1% to 20%
		Volatile matter	IS 1350 Part-I	10% to 50%
		Fixed Carbon	IS 1350 Part-I (By calculation)	10% – 90%

**Laboratory**                      **Qualichem Laboratories, 501, Swami Samartha Commercial Complex,  
4, North Bazar Road, Gokulpeth Market, Nagpur, Maharashtra**

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

**Certificate Number**        **TC-7067** *(in lieu of T-2706 & T-2842)*                      **Page 39 of 39**

**Validity**                        **01.04.2018 to 31.03.2020**                      **Last Amended on 13.04.2018**

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

---

**Vinay Kumar Tyagi**  
Convenor

---

**N. Venkateswaran**  
Program Director