

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>1 of 112</b>

<b>S. No.</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>
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Dairy &amp; Dairy Products</b>			
<b>a.</b>	<b>Raw &amp; Processed Milk, Curd, Paneer, Cheese, Dairy Based Confectioneries Evaporated/ Condensed Butter, Ice Cream and Other Dairy Products, Infant Milk Food</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 920.116, 927.05: 2012 Chapter 33/ DGHS Lab Manual1	0.5 % to 95 %
		Total ash	AOAC (19 <sup>th</sup> Edition) 945.46/930.30: 2012 Chapter 33 /IS 1165 (RA 2012) DGHS Lab Manual 1	0.2 % to 10 %
		Ash insoluble in Dil HCl	DGHS Lab Manual-1	0.1 % to 5 %
		Protein	AOAC (19 <sup>th</sup> Edition) 991.20: 2012 Chapter 33 / IS 1479 (Part 2) (RA 2012)/ DGHS LabManual1	0.5 % to 80 %
		Fat	AOAC (19 <sup>th</sup> Edition) 989.05: 2012 Chapter 33 IS 11721: 2013 (RA 2010) DGHS 2005 Lab Manual 1	0.5 % to 100 %
		Solid Not Fat (SNF)	AOAC (19 <sup>th</sup> Edition) 990.21: 2012 Chapter 33 IS 1479 (Part 2) (RA 2012) DGHS Lab Manual 1	5 % to 50 %
		Total solids	AOAC (19 <sup>th</sup> Edition) 925.23; 990.20: 2012 Chapter 33 / DGHS Lab Manual 1 IS 1479 (Part 2) (RA 2012)	1 % to 99 %

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>2 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products (Raw &amp; Processed Milk, Curd, Paneer, Cheese, Dairy Based Confectioneries Evaporated/ Condensed Butter, Ice Cream And Other Dairy Products, Infant Milk Food)</b>	Salt as NaCl	AOAC (19 <sup>th</sup> Edition) 960.29: 2012 Chapter 33 IS 3507: 1966 (RA 2012) DGHS Lab Manual 1	0.5 % to 5 %
		Phosphorus as P	AOAC (19 <sup>th</sup> Edition) 991.25: 2012 Chapter 33	0.05 % to 5 %
		Titration acidity	AOAC (19 <sup>th</sup> Edition) 947.05: 2012 Chapter 33/ IS 1165 (RA 2012) / DGHS Lab Manual 1	0.5 % to 40 %
		pH	AOAC (19 <sup>th</sup> Edition) 981.12: 2012 Chapter 33 IS 3507 (RA 2012)	1 unit to 14 unit
		Milk fat	DGHS LAB MANUAL-1	1 % to 40 %
		Milk SNF	DGHS LAB MANUAL-1	5 % to 20 %
		Milk Solids	DGHS LAB MANUAL-1	5 % to 90 %
		Lead as Pb	AOAC (19 <sup>th</sup> Edition) 999.10 /999.11/973.35: 2012 Chapter 09 / DGHS Lab Manual 9	0.01 mg/kg to 50 mg/kg
		Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.11/969.32: 2012 Chapter 09/ DGHS Lab Manual 9	0.04 mg/kg to 100 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>3 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products (Raw &amp; Processed Milk, Curd, Paneer, Cheese, Dairy Based Confectioneries Evaporated/ Condensed Butter, Ice Cream and Other Dairy Products, Infant Milk Food)</b>	Copper as Cu	AOAC (19 <sup>th</sup> Edition) 999.10 /999.11: 2012 Chapter 09 / DGHS Lab Manual 9	0.1 mg/kg to 300 mg/kg
		Cadmium as Cd	AOAC (19 <sup>th</sup> Edition) 999.10 /999.11: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10/999.11: 2012 Chapter 09/ DGHS Lab Manual 9	0.4 mg/kg to 50 mg/kg
		Arsenic as As	DGHS Lab Manual 9	0.1 mg/kg to 10 mg/kg
		Tin	DGHS Lab Manual 9	0.025 mg/kg to 250 mg/kg
		Mercury as Hg	AOAC (19 <sup>th</sup> Edition) 971.21: 2012 Chapter 09/ DGHS Lab Manual 9	0.1 mg/kg to 2 mg/kg
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 80 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 500 kcal)/ 100 g
		Lactose	IS 1479 (Part 2): 1960 (RA 2012)/ DGHS Lab Manual 1	0.5 % to 55 %

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>4 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products (Raw &amp; Processed Milk, Curd, Paneer, Cheese, Dairy Based Confectioneries Evaporated/ Condensed Butter, Ice Cream and Other Dairy Products, Infant Milk Food)</b>	Adulterants		
		Cane Sugar	DGHS Lab Manual 1 / IS 1479 (Part 2): 1961 (RA 2012)	Qualitative (Present/Absent)
		Cellulose		Qualitative (Present/Absent)
		Starch		Qualitative (Present/Absent)
		Added Urea		Qualitative (Present/Absent)
		Glucose		Qualitative (Present/Absent)
		Ammonium sulfate		Qualitative (Present/Absent)
		Saccharin		Qualitative (Present/Absent)
		Foreign Fat		Qualitative (Present/Absent)
		Sodium Chloride		Qualitative (Present/Absent)

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>5 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products (Raw &amp; Processed Milk, Curd, Paneer, Cheese, Dairy Based Confectioneries Evaporated/ Condensed Butter, Ice Cream and Other Dairy Products, Infant Milk Food)</b>	Neutralisers		
		Hypochlorites and Chloramines	DGHS Lab Manual 1/ IS 1479 (Part 2): 1961 (RA 2012)	Qualitative (Present/Absent)
		Quarternary Ammonium Compounds		Qualitative (Present/Absent)
		Detergents containing Alkylbenzene Sulfonic acids		Qualitative (Present/Absent)
		Skimmed milk powder		Qualitative (Present/Absent)
		Gelatin		Qualitative (Present/Absent)
		<b>PRESERVATIVES</b>		
		Formalin	DGHS Lab Manual 1/ IS 1479 (Part 2): 1961 (RA 2012)	Qualitative (Present/Absent)
		Hydrogen Peroxide		Qualitative (Present/Absent)
		Boric Acid & Borates		Qualitative (Present/Absent)
		Salicylic Acid		Qualitative (Present/Absent)

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>6 of 112</b>

<b>S. No.</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>
<b>2.</b>	<b>Fruit And Vegetable Products</b>			
<b>a.</b>	<b>Fresh and Thermally Processed Fruit and Vegetable Product, Canned Fruit, Fruit Concentrate, Pulps, Purees, Beverages, Tomato Ketchup, Sauce, Culinary Paste, Carbonated Fruit Beverages, Drink, Pickles, Jam, Jelly</b>	Physical Parameters		
		Rotting	DGHS Lab Manual 5	Qualitative (Present/Absent)
		Rodent contamination		Qualitative (Present/Absent)
		Presence of Mould		Qualitative (Present/Absent)
		pH	DGHS Lab Manual 5	1 unit to 14 unit
		Drained weight	DGHS Lab Manual 5	10 % to 90 %
		Moisture	DGHS Lab Manual 5 AOAC (19 <sup>th</sup> Edition) 984.25: 2012 Chapter 16	0.5 % to 95 %
		Total Ash	AOAC (19 <sup>th</sup> Edition) 940.26: 2012 Chapter 16, DGHS Lab Manual 5	0.5 % to 15 %
		Ash insoluble in Dil.HCl	DGHS Lab Manual 5	0.1 % to 5 %
		Soluble solids	DGHS Lab Manual 5 / AOAC (19 <sup>th</sup> Edition) 920.151, 932.12: 2012 Chapter 37 / IS13815: 1993 (RA 2009)	1.0 % to 85 %
		Fruit Juice content	DGHS Lab Manual 5	1.0 % to 50 %

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>7 of 112</b>

<b>S. No.</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>
	<b>Fresh and Thermally Processed Fruit and Vegetable Product, Canned Fruit, Fruit Concentrate, Pulps, Purees, Beverages, Tomato Ketchup, Sauce, Culinary Paste, Carbonated Fruit Beverages, Drink, Pickles, Jam, Jelly</b>	Acidity	AOAC (19 <sup>th</sup> Edition) 942.15: 2012 Chapter 37 , DGHS Lab Manual 5	0.1 % to 5 %
		Salt as NaCl	IS 3881: 1993 IS 2860: 1964 (RA 2013) DGHS Lab Manual 5	0.5 % to 50 %
		Calcium	IS 2860: 1964 (RA 2013)	0.05 % to 10 %
		Protein	AOAC (19 <sup>th</sup> Edition) 920.152: 2012 Chapter 37/ DGHS Lab Manual 5	0.5 % to 20 %
		Fat	DGHS Lab Manual 5	0.1 % to 25 %
		Sulphur dioxide	AOAC (19 <sup>th</sup> Edition) 990.28: 2012 Chapter 37/ DGHS Lab Manual 5	10 mg/kg to 1000 mg/kg
		Lead as Pb	AOAC (19 <sup>th</sup> Edition) 999.10, 972.25: 2012 Chapter 09 / DGHS Lab Manual 9	0.01mg/kg to 50 mg/kg
		Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.10; 969.32: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Copper as Cu	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.1 mg/kg to 50 mg/kg
		Cadmium as Cd	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>8 of 112</b>

<b>S. No.</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>
	<b>Fresh and Thermally Processed Fruit and Vegetable Product, Canned Fruit, Fruit Concentrate, Pulps, Purees, Beverages, Tomato Ketchup, Sauce, Culinary Paste, Carbonated Fruit Beverages, Drink, Pickles, Jam, Jelly</b>	Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.4 mg/kg to 50 mg/kg
		Tin as Sn	DGHS Lab Manual 9	0.025 mg/kg to 250 mg/kg
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 100 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 500 kcal)/ 100g
<b>b.</b>	<b>Fruits Apples/ Oranges/ Pears/ Longan/ Grapes/ Kiwi/ Dragon Fruit/ Mango/ Mangosteen/ Pine Apple, Parsley and Other Fruit Cocktails/Fruit Soup Powder/Fruit Cerel Flakes/Frozen Fruits/ Dehydrated Fruits and Other</b>	Arsenic as As	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Mercury as Hg		0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 100 mg/kg
		Cadmium Cd		0.25 mg/kg to 100 mg/kg
		Lead as Pb		0.25 mg/kg to 100 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 100 mg/kg
		Peroxidase Test	DGHS Lab Manual-5: 2005	Qualitative (Present/Absent)
		Hydrocyanic acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>9 of 112</b>

<b>S. No.</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>
<b>3.</b>	<b>Vegetable and Vegetable Products</b>			
<b>a.</b>	<b>Vegetables</b>	Arsenic as As	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
	<b>Curry Leaves</b>	Mercury as Hg		0.25 mg/kg to 100 mg/kg
	<b>Ladies Finger</b>	Copper as Cu		0.25 mg/kg to 100 mg/kg
	<b>Carrot</b>	Cadmium Cd		0.25 mg/kg to 100 mg/kg
	<b>Cabbage</b>	Lead as Pb		0.25 mg/kg to 100 mg/kg
	<b>Onion and Other</b>	Zinc as Zn		0.25 mg/kg to 100 mg/kg
	<b>Frozen</b>	Tin as Sn		0.25 mg/kg to 100 mg/kg
	<b>Vegetables,</b>	Benzoic acid	SMSLA/IN/SOP/72 Issue. 01/ Dated. 06.07.2016	10 mg/kg to 2000 mg/kg
	<b>Dehydrated</b>	Sorbic acid		10 mg/kg to 2000 mg/kg
	<b>Vegetables And</b>	Hydrocyanic acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg
	<b>Other</b>	Inorganic bromide	SMSLA/IN/SOP/82 Issue. 01/ Dated. 15.02.2016	5 mg/kg to 500 mg/kg
		Peroxidase Test	DGHS Lab Manual-5: 2005	Qualitative (Present/Absent)

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>10 of 112</b>

<b>S. No.</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>
<b>4.</b>	<b>Meat and Meat Products</b>			
<b>a.</b>	<b>Frozen Meat, Canned Meat, Canned Luncheon, Canned Cooked Ham, Canned Chopped Meat, Canned Chicken, Canned Mutton and Goat Meat</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 950.46: 2012 Chapter 39 / DGHS Lab Manual 6/ IS 5960 (Part 5): 2001 (RA 2007)	0.5 % to 70 %
		Nitrogen	AOAC (19 <sup>th</sup> Edition) 928.08: 2012 Chapter 39 / IS 5960 (Part 1): 1996 (RA 2009) / DGHS Lab Manual 6	0.5 % to 85 %
		Total Fat	AOAC (19 <sup>th</sup> Edition) 960.39: 2012 Chapter 39 / IS 5960 (Part 3): 1970 (RA 2010)	0.5 % to 65 %
		Salt as NaCl	AOAC (19 <sup>th</sup> Edition) 935.47: 2012 Chapter 39 / IS 5960 (Part 6/Sec I) (RA 2009)	0.2 % to 25 %
		Total ash	AOAC (19 <sup>th</sup> Edition) 920.153: 2012 Chapter 39,	1 % to 20 %
		Sodium nitrite	IS 5960 (Part 7): 1996 / DGHS Lab Manual 6	1 mg/kg to 250 mg/kg
		Lead as Pb	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.01 mg/kg to 50 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>11 of 112</b>

<b>S. No.</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>
	<b>Frozen Meat, Canned Meat, Canned Luncheon, Canned Cooked Ham, Canned Chopped Meat, Canned Chicken, Canned Mutton and Goat Meat</b>	Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.10;969.32: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Copper as Cu	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.1 mg/kg to 50 mg/kg
		Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.4 mg/kg to 50 mg/kg
<b>5.</b>	<b>Fish And Fish Products</b>			
<b>a.</b>	<b>Fish And Other Marine Products – Shrimps / Crustaceans, Frozen Fish, Canned Fish</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 952.08: 2012 Chapter 35/ IS 5960 (Part 5): 2001 DGHS Lab Manual 6	1.0 % to 85 %
		Ash	AOAC (19 <sup>th</sup> Edition) 938.08: 2012 Chapter 35 / IS 5960 (Part 2): 2007	0.1 % to 20 %
		Total Volatile base Nitrogen	DGHS Lab Manual 6	(10 mg to 5000 mg)/100g
		Protein	IS 5960 Part 1 (RA 2009)	1 % to 50 %
		Total fat	AOAC (19 <sup>th</sup> Edition) 948.15: 2012 Chapter 35 / IS 5960 (Part 3) (RA 1990)	0.5 % to 20 %
		Salt as NaCl	AOAC (19 <sup>th</sup> Edition) 937.09: 2012 Chapter 35 / DGHS Lab Manual 6	2 % to 50 %

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>12 of 112</b>

<b>S. No.</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>
	<b>Fish And Other Marine Products – Shrimps / Crustaceans, Frozen Fish, Canned Fish</b>	Sulfur-dioxide as SO <sub>2</sub>	AOAC (19 <sup>th</sup> Edition) 990.28: 2012 Chapter 47 / DGHS Lab Manual 6	10 mg/kg to 1000 mg/kg
		Phosphate as PO <sub>4</sub>	DGHS Lab Manual 6	0.1 % to 10 %
		Lead as Pb	AOAC (19 <sup>th</sup> Edition) 999.10; 972.25: 2012 Chapter 09 / DGHS Lab Manual 9	0.01 mg/kg to 50 mg/kg
		Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.10; 969.32: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Copper as Cu	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.1 mg/kg to 50 mg/kg
		Cadmium as Cd	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Mercury as Hg	AOAC (19 <sup>th</sup> Edition) 977.15 / 971.21: 2012 Chapter 09 / DGHS Lab Manual 9	0.1 mg/kg to 2 mg/kg
		Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.4 mg/kg to 50 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>13 of 112</b>

<b>S. No.</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>
<b>6.</b>	<b>Nut and Nut Products</b>			
<b>a.</b>	<b>Edible Nuts</b>	<b>REFRACTIONS</b>		
		Extraneous matter	DGHS 2005 Lab Manual 3	0.5 % to 80 %
		Rodent hair & excreta		Qualitative (Present/Absent)
		Damaged Kernals		0.5 % to 80 %
		Damaged Raisin		0.5 % to 80 %
		Unopened shells		0.5 % to 80 %
		Empty shell		0.5 % to 80 %
		Moisture	AOAC (19 <sup>th</sup> Edition) 925.40: 2012 Chapter 40	0.5 % to 50 %
		Ash	AOAC (19 <sup>th</sup> Edition) 950.49: 2012 Chapter 40	0.1 % to 10.0 %
		Protein	AOAC (19 <sup>th</sup> Edition) 950.48: 2012 Chapter 40	1 % to 50 %
		Fat	AOAC (19 <sup>th</sup> Edition) 948.22: 2012 Chapter 40	1 % to 70 %
		Crude Fibre	AOAC (19 <sup>th</sup> Edition) 935.53: 2012 Chapter 40	1 % to 20 %
		Salt	AOAC (19 <sup>th</sup> Edition) 950.52: 2012 Chapter 40	0.5 % to 10 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>14 of 112</b>

<b>S. No.</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>
<b>b.</b>	<b>Nuts Groundnut Kernels/Cashew/ Almonds/Dates/ Pistachio Nuts/Dry Fruits And Other Nut Products Dates Syrup/Paste And Other</b>	Lead as Pb	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 100 mg/kg
		Arsenic as As		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 100 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg
		Cadmium as Cd		0.25 mg/kg to 100 mg/kg
		Mercury as Hg		0.25 mg/kg to 100 mg/kg
<b>7.</b>	<b>Oil Seeds</b>	Extraneous matter	DGHS 2005 Lab Manual 3	0.5 % to 80 %
		Rodent hair & excreta		Qualitative (Present/Absent)
		Damaged Kernals		0.5 % to 80 %
		Damaged Raisin		0.5 % to 80 %
		Unopened shells		0.5 % to 80 %
		Empty shell		0.5 % to 80 %
		Moisture	IS 3579: 1966 (RA 2011)	0.5 % to 20 %
		Fat	IS 3579: 1966 (RA 2011)	1 % to 70 %
		Acid value of extracted fat	IS 3579: 1966 (RA 2011)	0.5 to 100

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>15 of 112</b>

<b>S. No.</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>
<b>8.</b>	<b>Groundnut Flour</b>	Moisture	IS 4684: 1975 (RA 2010)	0.5 % to 20 %
		Ash	IS 4684: 1975 (RA 2010)	0.1 % to 10.0 %
		Acid insoluble ash	IS 4684: 1975 (RA 2010)	0.1 % to 10 %
		Protein	IS 4684: 1975 (RA 2010)	1 % to 50 %
		Fat	IS 4684: 1975 (RA 2010)	1 % to 70 %
		Acid value of extracted fat	IS 4684: 1975 (RA 2010)	0.5 to 100
		Crude Fibre	IS 4684: 1975 (RA 2010)	1 % to 40 %
		Lead as Pb	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09	0.01 mg/kg to 50 mg/kg
		Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.10; 969.32: 2012 Chapter 09	0.04 mg/kg to 50 mg/kg
		Copper as Cu	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09	0.1 mg/kg to 50 mg/kg
		Cadmium as Cd	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09	0.04 mg/kg to 50 mg/kg
		Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09	0.4 mg/kg to 100 mg/kg
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 80 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 500 kcal)/100g

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>16 of 112</b>

<b>S. No.</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>
<b>9.</b>	<b>Animal Feed</b>			
<b>a.</b>	<b>Pet Foods (Including Oil Cakes/ Poultry Feed/ Shrimp Feed/ Fish Feed)</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 934.01;925.04;930.15: 2012 Chapter 4 / IS 7874 (Part 1): 1975 (RA 2009)	1 % to 20 %
		Acid insoluble ash	IS 7874 (Part 1): 1975 (RA 2009)	0.05 % to 10 %
		Total ash	AOAC (19 <sup>th</sup> Edition) 942.05: 2012 Chapter 4/ IS 7874 (Part 1): 1975 (RA 2009)	0.5 % to 10 %
		Crude Protein	IS 7874 (Part 1): 1975 (RA 2009)/ AOAC (19 <sup>th</sup> Edition) 954.01: 2012 Chapter 4,	1 % to 90 %
		Crude Fibre	AOAC (19 <sup>th</sup> Edition) 978.10: 2012 Chapter 4 / IS 7874 (Part 1): 1975 (RA 2009)	0.5 % to 20 %
		Crude Fat	AOAC (19 <sup>th</sup> Edition) 920.39: 2012 Chapter 4 / IS 7874 (Part 1): 1975 (RA 2009)	0.5 % to 20 %
		Salt as NaCl	AOAC (19 <sup>th</sup> Edition) 943.01: 2012 Chapter 4/ IS 7874 (Part 2): 1975 (RA 2004)	0.5 % to 5 %



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>17 of 112</b>

<b>S. No.</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>
	<b>Pet Foods (Including Oil Cakes/ Poultry Feed/ Shrimp Feed/ Fish Feed)</b>	Phosphorus	AOAC (19 <sup>th</sup> Edition) 964.06: 2012 Chapter 4 / IS 7874 (Part 2): 1975 (RA 2004)	0.05 % to 5 %
		Calcium	IS 13433 (Part 2): 1992	0.05 % to 5 %
		Copper as Cu	DGHS Lab Manual 9	0.1 mg/kg to 50 mg/kg
		Lead as Pb	DGHS Lab Manual 9	0.01 mg/kg to 50 mg/kg
		Iron as Fe	DGHS Lab Manual 9	0.4 mg/kg to 50 mg/kg
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 80 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 500 kcal)/J
<b>b.</b>	<b>Animal Food Pet Foods, Rapeseed Meal, Guar Meal And Miscellaneous Animal Feeds Oil Cake, Groundnut Meal, Poultry Feed Additives, Animal Nutrition Supplements and Miscellaneous</b>	Hyperciene	SMSLA/IN/SOP/053	0.05 mg/kg to 5 mg/kg
		Agaric Acid	Issue. / Dated. 01/24.01.2015	5 mg/kg to 500 mg/kg
		Saffrole		0.5 mg/kg to 10.0 mg/kg
		Hydrocyanic Acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>18 of 112</b>

<b>S. No.</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>
<b>10.</b>	<b>Spices and Condiments</b>			
<b>a.</b>	<b>Whole and Ground or Mixed Chilly/ Turmeric/ Curry Powder/ Cardamom/ Curry Masala/ Poppy Seeds/ Caraway/ Cassia/ Coriander/ Cloves/ Cumin/ Ginger/ Fenugreek/ Mixed Masala Curry/ Powdered Dehydrated Onion</b>	Extraneous matter	IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.1 % to 10 %
		Insect damaged Matter		0.1 % to 10 %
		Immature And Shriveled Capsules		0.1 % to 20 %
		Broken		0.1 % to 20 %
		Headless Cloves		0.1 % to 50 %
		Split fruits		0.1 % to 20 %
		Damaged/ Discolored Fruits		0.1 % to 20 %
		Moisture	IS 1797: 1985 (RA 2013)/ AOAC (19 <sup>th</sup> Edition) 941.11: 2012 Chapter 43 / DGHS Lab Manual 10	1.0 % to 50 %
		Total ash	IS 1797: 1985 (RA 2013)/ AOAC (19 <sup>th</sup> Edition) 941.12: 2012 Chapter 43 / DGHS Lab Manual 10	0.5 % to 20 %
		Ash Insoluble in DilHCl	AOAC (19 <sup>th</sup> Edition) 941.12: 2012 Chapter 43 Annexure B / IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.1 % to 5 %
		Total Nitrogen	AOAC (19 <sup>th</sup> Edition): 2012 Chapter 43 920.173; 920.165	1 % to 30 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>19 of 112</b>

<b>S. No.</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>
	<b>Whole and Ground or Mixed Chilly/ Turmeric/ Curry Powder/ Cardamom/ Curry Masala/ Poppy Seeds/ Caraway/ Cassia/ Coriander/ Cloves/ Cumin/ Ginger/ Fenugreek/ Mixed Masala Curry/ Powdered Dehydrated Onion</b>	Crude Fibre	IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10/ AOAC (19 <sup>th</sup> Edition) 920.169: 2012 Chapter 43	1 % to 50 %
		Calcium	IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.05 % to 5 %
		Salt as NaCl	AOAC (19 <sup>th</sup> Edition) 941.13: 2012 Chapter 43 / IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.1 % to 20 %
		Non Volatile Ether Extract	IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.5 % to 80 %
		Volatile oil	IS 1797: 1985 (RA 2013)/ DGHS Lab Manual 10	0.5 % to 30 %
		Zinc as Zn	AOAC (19 <sup>th</sup> Edition) 999.10; 969.32: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Cadmium as Cd	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.04 mg/kg to 50 mg/kg
		Iron as Fe	AOAC (19 <sup>th</sup> Edition) 999.10: 2012 Chapter 09 / DGHS Lab Manual 9	0.4 mg/kg to 100 mg/kg
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 80 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 1000 kcal) /100g

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>20 of 112</b>

<b>S. No.</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>
<b>b.</b>	<b>Herbs, Spices and Condiments Caraway/ Cardamom/ Chillies/ Capsicum/ Cinnamon/Cassia/ Cloves/ Coriander/ Cumin/ Ginger/ Mace/Mustard/Nutmeg/Pepper (White &amp; Black)/ Poppy/Turmeric/ Curry and Other</b>	Tendrils and Mother cloves	DGHS Lab Manual-10: 2005	0.05 % to 99.0 %
		Khokar Cloves	DGHS Lab Manual-10: 2005	0.06 % to 99.0 %
		Living and Dead Insects	DGHS Lab Manual-10: 2005	Qualitative (Present/Absent)
		Mould	DGHS Lab Manual-10: 2005	Qualitative (Present/Absent)
		Rodent Hair & Excreta	DGHS Lab Manual-10: 2005	Qualitative (Present/Absent)
		Insect Fragments	DGHS Lab Manual-10: 2005	Qualitative (Present/Absent)
		Added colouring Matter	DGHS Lab Manual-8: 2005	Qualitative (Present/Absent)
		Lead as Pb	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 100 mg/kg
		Arsenic as As		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 100 mg/kg
		Mercury Hg		0.25 mg/kg to 100 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg
		Cadmium as Cd		0.25 mg/kg to 100 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>21 of 112</b>

<b>S. No.</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>
<b>11.</b>	<b>Oils and Fats (Edible Oils, Fats Hydrogenated Vegetable Oils, Soya Bean Oil)</b>	Moisture & Volatile matter	IS 548 (Part 1): 1964(RA 2011)/ AOAC (19 <sup>th</sup> Edition) 926.12: 2012 Chapter 41 / DGHS Lab Manual 2	0.01 % to 5 %
		Refractive index at 40 °C	IS 548 (Part 1): 1964(RA 2011)/ AOAC (19 <sup>th</sup> Edition) 921.08: 2012 Chapter 41 / DGHS Lab Manual 2	1.3330 to 1.9501
		Insoluble impurities	IS 548 (Part 1): 1964 (RA 2011)	0.1 % to 5 %
		Iodine Value	IS 548 (Part 1): 1964 (RA 2011)/ AOAC (19 <sup>th</sup> Edition) 920.159: 2012 Chapter 41 / DGHS Lab Manual 2	5 to 250
		Saponification Value	IS 548 (Part 1): 1964(RA 2011)/ AOAC (19 <sup>th</sup> Edition) 920.160: 2012 Chapter 41 / DGHS Lab Manual 2	50 to 400
		Unsaponifiable matter	IS 548 (Part 1): 1964 (RA 2011)/ AOAC (19 <sup>th</sup> Edition) 933.08: 2012 Chapter 41 / DGHS Lab Manual 2	1 % to 25 %
		Acid Value	IS 548 (Part 1): 1964 (RA 2011)/ AOAC (19 <sup>th</sup> Edition) 940.28: 2012 Chapter 41 / DGHS Lab Manual 2	0.50 to 100
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2011)/ DGHS Lab Manual 2/ AOAC (19 <sup>th</sup> Edition) 965.33: 2012 Chapter 41	1 meq/kg to 100 meq/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>22 of 112</b>

<b>S. No.</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>
	<b>Oils and Fats (Edible Oils, Fats Hydrogenated Vegetable Oils, Soya Bean Oil)</b>	Flash Point	IS 548 (Part 1): 1964 (RA 2011)/ DGHS 2005 Lab Manual 2	50°C to 400 °C
		Reichert Meisel Value	IS 548 (Part 1): 1964 (RA 2011)	2 to 35
		Polenske value	IS 548 (Part 1): 1964 (RA 2011)	0.1 to 25
		Moisture (KF Method)	IS 548 (Part 1): 1964 (RA 2011)	0.01 % to 5.0 %
		Specific gravity	IS 548 (Part 1): 1964 (RA 2011)	0.5 to 1.5
		Test for Mineral oil	IS 548 (Part 2): 1964 (RA 2011)/ DGHS Lab Manual 2: 2005	Qualitative (Present/Absent)
		Test for Argemone oil		
		Test for hydrocyanic acid		
		Test for Semisiccative Oil		
		Test for Sesame oil		
		Cotton seed oil		
		Test for Teaseed Oil		
		Test for Olive pomace oil		
		Cholesterol	SMSLA/IN/SOP/09 By GC-MSMS based on AOAC (19 <sup>th</sup> Edition) 970.51 Chapter 41	0.01 % to 10 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>23 of 112</b>

<b>S. No.</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>
	<b>Oils and Fats (Edible Oils, Fats Hydrogenated Vegetable Oils, Soya Bean Oil)</b>	Fatty acid profile (Saturated, Unsaturated, PUFA, MUFA, Trans fat)	SMSLA/IN/SOP/08 By GC-MSMS AOAC (19 <sup>th</sup> Edition): 2012/ IS 548 (Part 1): 1164	0.01 % to 100 %
<b>12.</b>	<b>Oils Seeds and By- Products</b>	Lead as pb	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
	<b>Oil Seeds</b>	Copper as Cu		0.25 mg/kg to 100 mg/kg
	<b>Sesame Seed, Sunflower Seed, Cotton Seed, Mustard Seed</b>	Arsenic as As		0.25 mg/kg to 100 mg/kg
	<b>Groundnut and Other</b>	Tin as Sn		0.25 mg/kg to 100 mg/kg
	<b>By Products</b>	Zinc as Zn		0.25 mg/kg to 100 mg/kg
	<b>Refined Oil/Palm/ Sunflower Seed Oil/Mustard Oil/ Coconut Oil/Olive Oil/ Til Oil/ Soyabean Oil/ Almond Oil/ Refined Vegetable Oil/ Rice Bran Oil/ Blended Vegetable Oil and Other</b>	Cadmium Cd	SMSLA/IN/SOP/42 Issue. 01/ Dated. 24.01.2015	0.25 mg/kg to 100 mg/kg
		Mercury Hg		0.25 mg/kg to 100 mg/kg
		Trichlorfon		5.00 µg/kg to 100 µg/kg
		Phenthoate		5.00 µg/kg to 100 µg/kg
		Phorate		5.00 µg/kg to 100 µg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>24 of 112</b>

<b>S. No.</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>
<b>13.</b>	<b>Cereals, Pulses and Flour</b>			
<b>a.</b>	<b>Black Matpe, Green Peas, Green Mung Bean, Toor Whole, Oats, Bakery Products, Wheat, Atta</b>	Refractions		
		Foreign matter	DGHS 2005 Lab Manual 3	0.5 % to 20 %
		Mineral matter		0.1 % to 10 %
		Organic matter		0.01 % to 10 %
		Other Edible grain		0.1 % to 20 %
		Rodent hair & excreta		0.1 % to 10 %
		Damaged grains		0.01 % to 20 %
		Discoloured grains		0.05 % to 20 %
		Insect damaged grains		0.1 % to 20 %
		Weevilled grains		0.1 % to 20 %
		Moisture	DGHS 2005 Manual 3/ AOAC (19 <sup>th</sup> Edition) 925.10: 2012 Chapter 32 / IS 4333 (Part 2): 2002 (RA 2012)/ IS 1155: 1968 (RA 2010)/ IS 1158: 1973 (RA 2010)/ IS 1009: 1979 (RA 2010)	1 % to 50 %



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>25 of 112</b>

<b>S. No.</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>
	<b>Black Matpe, Green Peas, Green Mung Bean, Toor Whole, Oats, Bakery Products, Wheat, Atta</b>	Uric Acid	DGHS 2005 Lab Manual 3/ IS 4333 (Part 5): 1970 (RA 2010)/ AOAC (19 <sup>th</sup> Edition) 970.24: 2012 Chapter 32	5 mg/kg to 200 mg/kg
		Total ash	AOAC (19 <sup>th</sup> Edition) 923.03: 2012 Chapter 32 / IS 1155: 1968 (RA 2010)/ IS 1158: 1973 (RA 2010)/ IS 1009: 1979 (RA 2010)	0.5 % to 20 %
		Ash insoluble in dilute HCl	IS 1155: 1968 (RA 2010)/ IS 1158: 1973 (RA 2010)/ IS 1009: 1979 (RA 2010)	0.1 % to 10 %
		Acidity of extracted fat	DGHS 2005 Lab Manual 3	0.1 % to 50 %
		Protein	AOAC (19 <sup>th</sup> Edition) 920.87, 979.09: 2012 Chapter 32 / IS 7219: 1973	1 % to 60 %
		Total fat	AOAC (19 <sup>th</sup> Edition) 922.06, 920.85: 2012 Chapter 32	1 % to 20 %
		Crude Fibre	AOAC (19 <sup>th</sup> Edition) 920.86: 2012 Chapter 32	1 % to 50 %
		Gluten	DGHS Lab Manual 3/ IS 1155: 1968 (RA 2010)/ IS 1158: 1973 (RA 2010)/ IS 1009: 1979 (RA 2010)	0.5 % to 50 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>26 of 112</b>

<b>S. No.</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>
	<b>Black Matpe, Green Peas, Green Mung Bean, Toor Whole, Oats, Bakery Products, Wheat, Atta</b>	Sulphated ash	DGHS 2005 Lab Manual 3	0.01 % to 5 %
		Sulphur dioxide	DGHS 2005 Lab Manual 6	10 mg/kg to 1000 mg/kg
		Argemone seeds	DGHS 2005 Lab Manual	Qualitative (Present/Absent)
		Carbohydrate	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	5 % to 80 %
		Energy	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	(10 kcal to 500 kcal)/100g
<b>14.</b>	<b>Cereals, Pulses and Cereal Products</b>			
<b>a.</b>	<b>Cereals Atta/ Maida/ Semolina/ Besan/ Pearl Barley/ Food Grains/ Rolled Oats and Other Cereal Products Corn Flour/Corn Flakes, Custard Powder/ Macoroni Products/ Malt Andmalt Based Foods/ Solvent Extracted Flours and Other</b>	Lead as Pb	SMSLA/IN/SOP/87	0.25 mg/kg to 300 mg/kg
		Copper as Cu	Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 300 mg/kg
		Arsenic as As		0.25 mg/kg to 300 mg/kg
		Tin as Sn		0.25 mg/kg to 300 mg/kg
		Zinc as Zn		0.25 mg/kg to 300 mg/kg
		Cadmium as Cd		0.25 mg/kg to 300 mg/kg
		Mercury as Hg		0.25 mg/kg to 300 mg/kg
		Alcoholic acidity	IS 1155: 1968 (RA 2010)	0.06 % to 20.0 %
		Hydrocyanic acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>27 of 112</b>

<b>S. No.</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>
<b>15.</b>	<b>Salt (Edible Common Salt, Iodized Salt, Refined Iodized Salt, Vacuum Evaporated Iodized Salt)</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure B Chapter 11 / IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	0.1 % to 10 %
		Water insoluble matter	AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure C Chapter 11 / IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	(0.05 g to 5 g)/100g
		Chloride as NaCl	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	70 % to 99 %
		Acid insoluble matter	AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure D Chapter 11 / IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	(0.05 g to 5 g)/100g
		Matter soluble in water (other than NaCl)	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	0.1 % to 5 %
		Calcium	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010) / AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure G Chapter 11	0.05 % to 2 %
		Magnesium	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010) / AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure G Chapter 11	0.05 % to 1 %
		Sulphates	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010) / AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure F Chapter 11	0.01 % to 1 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>28 of 112</b>

<b>S. No.</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>
	<b>Salt (Edible Common Salt, Iodized Salt, Refined Iodized Salt, Vacuum Evaporated Iodized Salt)</b>	Lead	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010) / AOAC (19 <sup>th</sup> Edition) 925.55: 2012 Annexure G Chapter 11	0.1 mg/kg to 100 mg/kg
		Iodine content	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)/ AOAC (19 <sup>th</sup> Edition) 925.56: 2012 Chapter 11	2 mg/kg to 100 mg/kg
		Alkalinity as Na <sub>2</sub> CO <sub>3</sub>	IS 253: 1985 (RA 2014)/ IS 7224: 2006 (RA 2010)	0.05 % to 1 %
<b>16.</b>	<b>Sweetening Agents</b>			
<b>a.</b>	<b>Hone y</b>	Total Reducing Sugar	IS 4941: 1994 (RA 2008) Annexure C	5.0 g/100g to 90 g/100g
		Optical density at 660nm	IS 4941: 1994 (RA 2008) Annexure H	0.15 to 0.350
		Sucrose	IS 4941: 1994 (RA 2008) Annexure C	0.5 g/100g to 85 g/100g
		Moisture	IS 4941: 1994 (RA 2008) Annexure B	2.0 g/100g to 50g/100g
		Ash	IS 4941: 1994 (RA 2008) Annexure D	0.10 g/100g to 5g/100g
		Specific gravity at 27 deg C	IS 4941: 1994 (RA 2008) Annexure A	1.0 to 1.50
		Acidity (as formic acid)	IS 4941: 1994 (RA 2008) Annexure E	0.11 g/100g to 0.5 g/100g

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>29 of 112</b>

<b>S. No.</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>
	<b>Hone y</b>	Fiehes test	IS 4941: 1994 (RA 2008) Annexure F	Qualitative (Negative/Positive)
<b>b.</b>	<b>Plantation White Sugar and Refined Sugar - Icing Sugar, Palm Sugar, Brown Sugar, Jaggery</b>	Loss on drying / Moisture	IS 15279: 2003 (RA 2012)/ GS2/1/3-15: (2005)	0.01 % to 5.0 %
		Polarisation	IS 15279: 2003 (RA 2012) / GS1/2/3-1: (2009) / GS2/3-1: (1994)	50 % to 100 %
		Sulphated ash	IS 15279: 2003 (RA 2012) / GS1-10: (1998)	0.01 % to 2.0 %
		Colour (ICUMSA units)	IS 15279: 2003 (RA 2012)/ GS2/3-10: (2007)	10 to 5000
		Extraneous Matter	DGHS Lab Manual 4	Qualitative (Present/Absent)
		pH	GS1/2/3/4/7/8/9-23: (2009)	01 to 14
		Conductivity Ash	GS1/3/4/7/8-13: (1998)	0.01 % to 0.5 %
		Iron filings	DGHS Manual 4	Qualitative (Present/Absent)
<b>17.</b>	<b>Tea &amp; Tea Powders, Coffee &amp; Coffee Powder</b>	Moisture	AOAC (19 <sup>th</sup> Edition) 925.19 Chapter 30	2.5 % to 40 %
		Crude Fibre	DGHS 2005 Manual 4	0.50 % to 40 %
		Total ash	AOAC (19 <sup>th</sup> Edition) 920.100 Chapter 30 DGHS 2005 Manual 4	1.0 % to 20 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>30 of 112</b>

<b>S. No.</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>
	<b>Tea &amp; Tea Powders, Coffee &amp; Coffee Powder</b>	Acid insoluble ash	AOAC (19 <sup>th</sup> Edition) 920.100 Chapter 30 / DGHS 2005 Manual 4	0.02 % to 5.0 %
		Water extract	DGHS 2005 Manual 4 / AOAC (19 <sup>th</sup> Edition) 920.104 Chapter 30	4.0 % to 80 %
		Water Soluble ash	AOAC (19 <sup>th</sup> Edition) 920.100 Chapter 30	2.50 % to 60 %
		Alkalinity of water soluble ash as KOH	AOAC (19 <sup>th</sup> Edition) 920.100 Chapter 30	0.30 % to 5.0 %
		Petroleum Ether Extract	AOAC (19 <sup>th</sup> Edition) 925.18 Chapter 30	3.0 % to 20 %
		Protein	AOAC (19 <sup>th</sup> Edition) 920.103 Chapter 30	0.1 % to 50 %
		Caffeine	SMSLA/IN/SOP/69 Issue. 1 Dated. 01/05.07.2015	2.5 mg/kg to 100 mg/kg
		Energy-Kcal/100g [By calculation]	ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 23	10 kcal/100g to 800 kcal/100g
		Carbohydrates [By difference]	DGHS Lab Manual 1; ISSN 0254-4725 FAO Food and Nutrition Paper 77 Page. 12	10.0 % to 90 %
		Solubility in hot water	DGHS 2005 Manual 4	Qualitative (Pass/ Fail)
		Solubility in coldwater	DGHS 2005 Manual 4	Qualitative (Pass/ Fail)

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>31 of 112</b>

<b>S. No.</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>
<b>b.</b>	<b>Tea</b>	Extraneous Matter	DGHS Lab Manual-4: 2005	Qualitative (Present/Absent)
		Added Colouring Matter	DGHS Lab Manual-8: 2005	Qualitative (Present/Absent)
		Iron Fillings	DGHS Lab Manual-4: 2005	5.0 mg/kg to 500 mg/kg
		Hydrocyanic acid	AOAC 19 <sup>th</sup> Edn. 2012-915.03	2.0 mg/kg to 50 mg/kg
		Lead as Pb	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 200 mg/kg
		Arsenic as As		0.25 mg/kg to 100 mg/kg
		Mercury as Hg		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 300 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg
<b>18.</b>	<b>Bakery and Confectionary Products Bread Biscuits Wafer Roll Cakes Toffee Chocolate Lozenges and Other</b>	Cadmium as Cd	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Lead as Pb		0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 100 mg/kg
		Arsenic as As		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 100 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg
		Cadmium as Cd		0.25 mg/kg to 100 mg/kg
		Mercury as Hg		0.25 mg/kg to 100 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>32 of 112</b>

<b>S. No.</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>
	<b>Bakery and Confectionary Products</b>	Hydrocyanic acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg
	<b>Bread</b>	Moisture	IS 6287: 1985 (RA 1999)	0.25 % to 85.0 %
	<b>Biscuits</b>	Ash	DGHS Lab Manual-4: 2005	0.1 % to 25.0 %
	<b>Wafer Roll</b>	Total Fat	IS 6287: 1985 (RA 1999)	0.3 % to 85.0 %
	<b>Cakes</b>	Protein	IS 6287: 1985 (RA 1999)	0.30 % to 50.0 %
	<b>Toffee</b>	Ash Insoluble in Dil. HCl	IS 6287: 1985 (RA 1999)	0.06 % to 20.0 %
	<b>Chocolate</b>	Sulphated Ash	IS 6287: 1985 (RA 1999)	0.06 % to 20.0 %
	<b>Lozenges and Other</b>	Moisture	IS 6287: 1985 (RA 1999)	0.25 % to 85.0 %
<b>19.</b>	<b>Edible Colours And Flavours</b>	Ash	DGHS Lab Manual-4: 2005	0.1 % to 25.0 %
	<b>Onion Flavour, Tomato Flavour, Pineapple Flavour</b>	Total Fat	IS 6287: 1985 (RA 1999)	0.3 % to 85.0 %
	<b>(Kiwi Flavour, Semi Finished Flavour Compound, Synthetic Flavours, Savoury Flavours, Cheese Flavour, Flavour Powder, Caramel Flavour, Vegetable Flavouring Powder, Food Flavour and Other</b>	Protein	IS 6287: 1985 (RA 1999)	0.30 % to 50.0 %
		Ash Insoluble in Dil. HCl	IS 6287: 1985 (RA 1999)	0.06 % to 20.0 %
		Sulphated Ash	IS 6287: 1985 (RA 1999)	0.06 % to 20.0 %
		Lead as Pb	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Copper as Cu		0.25 mg/kg to 100 mg/kg
		Arsenic as As		0.25 mg/kg to 100 mg/kg
		Tin as Sn		0.25 mg/kg to 100 mg/kg
		Zinc as Zn		0.25 mg/kg to 100 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>33 of 112</b>

<b>S. No.</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>
		Cadmium as Cd	SMSLA/IN/SOP/87 Issue. 01/ Dated. 02.01.2016	0.25 mg/kg to 100 mg/kg
		Mercury as Hg		0.25 mg/kg to 100 mg/kg
		Hydrocyanic acid	AOAC (19 <sup>th</sup> Edition) 915.03: 2012	2 mg/kg to 50 mg/kg
<b>II.</b>	<b>RESIDUES IN FOOD PRODUCTS</b>			
<b>1.</b>	<b>Fruits and Vegetables</b>	o,p DDT	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 5.0 mg/kg
		p,p' DDT	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 2.0 mg/kg
		o,p DDE	Based on AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012;	0.01 mg/kg to 5.0 mg/kg
		p,p' DDE	J.Chromatography A 1173: 2007	0.01 mg/kg to 5.0 mg/kg
		o,p DDD		0.01 mg/kg to 5.0 mg/kg
		p,p' DDD		0.01 mg/kg to 5.0 mg/kg
		Gamma HCH (Lindane)		0.01 mg/kg to 1.0 mg/kg
		Alpha HCH		0.01 mg/kg to 1.0 mg/kg
		Beta HCH		0.01 mg/kg to 1.0 mg/kg
		Delta HCH		0.01 mg/kg to 1.0 mg/kg
		Alpha Endosulfan		0.01 mg/kg to 5.0 mg/kg
		Beta Endosulfan		0.01 mg/kg to 5.0 mg/kg
		Endosulfan Sulphate		0.01 mg/kg to 5.0 mg/kg
		Ethion		0.01 mg/kg to 1.0 mg/kg
		Butachlor		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>34 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Alachor	In-house Validate Method	0.01 mg/kg to 1.0 mg/kg
		Methyl Parathion	SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Aldrin	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Dieldrin	Based on	0.01 mg/kg to 1.0 mg/kg
		Chlordane-cis	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012;	0.01 mg/kg to 1.0 mg/kg
		Chlordane-trans	J.Chromatography A 1173: 2007	0.01 mg/kg to 1.0 mg/kg
		Cyfluthrin (sum of isomers)		0.01 mg/kg to 3.0 mg/kg
		Cypermethrin (sum of isomers)		0.01 mg/kg to 5.0 mg/kg
		Deltamethrin		0.01 mg/kg to 2.0 mg/kg
		Diazinon		0.01 mg/kg to 1.0 mg/kg
		Endrin		0.01 mg/kg to 1.0 mg/kg
		Heptachlor		0.01 mg/kg to 1.0 mg/kg
		Heptachlor epoxide		0.01 mg/kg to 1.0 mg/kg
		Hexachlorobenzene		0.01 mg/kg to 1.0 mg/kg
		Azinphos ethyl		0.01 mg/kg to 1.0 mg/kg
		Primphosmethyl		0.01 mg/kg to 5.0 mg/kg
		Fenitrothion		0.01 mg/kg to 1.0 mg/kg
		Captan		0.01 mg/kg to 2.0 mg/kg
		Chlorobenzilate		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>35 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Dicofol	In-house Validate Method	0.01 mg/kg to 2.0 mg/kg
		Difenoconazole	SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 5.0 mg/kg
		Formothion	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Phosalone	Based on	0.01 mg/kg to 1.0 mg/kg
		Acephate	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012;	0.01 mg/kg to 1.0 mg/kg
		2,4-D	J.Chromatography A 1173: 2007	0.01 mg/kg to 5.0 mg/kg
		Abamectin		0.01 mg/kg to 1.0 mg/kg
		Acetamiprid		0.01 mg/kg to 20.0 mg/kg
		Atrazine		0.01 mg/kg to 5.0 mg/kg
		Azadirachtin		0.025 mg/kg to 100 mg/kg
		Benalaxyl		0.01 mg/kg to 30.0 mg/kg
		Bendiocarb		0.01 mg/kg to 1.0 mg/kg
		Fenobucarb		0.01 mg/kg to 1.0 mg/kg
		Benomyl		0.01 mg/kg to 30.0 mg/kg
		Bifenazate		0.01 mg/kg to 1.0 mg/kg
		Bitertanol		0.01 mg/kg to 5.0 mg/kg
		Carbaryl		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>36 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Carbendazim	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 30.0 mg/kg
		Carbofuran	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Cartap	Based on	0.01 mg/kg to 1.0 mg/kg
		Chlorfenvinphos	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012;	0.01 mg/kg to 2.0 mg/kg
		Chlorpyrifos-Ethyl	J.Chromatography A 1173: 2007	0.01 mg/kg to 50.0 mg/kg
		Chlorpyrifos-Methyl		0.01 mg/kg to 20.0 mg/kg
		Clothianidin		0.1 mg/kg to 60.0 mg/kg
		Cymoxanil		0.01 mg/kg to 20.0 mg/kg
		Oxy Demetron methyl (Demeton -O)		0.01 mg/kg to 1.0 mg/kg
		Diafenthiuron		0.01 mg/kg to 1.0 mg/kg
		Dichlorvos		0.01 mg/kg to 1.0 mg/kg
		Dimethoate		0.01 mg/kg to 2.0 mg/kg
		Dimethomorph		0.01 mg/kg to 100 mg/kg
		Dinocap		0.025 mg/kg to 5.0 mg/kg
		Dithianon		0.075 mg/kg to 100 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>37 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Diuron	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 5.0 mg/kg
		Dodine	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 20.0 mg/kg
		Edifenphos	Based on AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012;	0.01 mg/kg to 1.0 mg/kg
		Ethephon	J.Chromatography A 1173: 2007	0.02 mg/kg to 70.0 mg/kg
		Etofenprox		0.01 mg/kg to 100 mg/kg
		Fenarimol		0.01 mg/kg to 30.0 mg/kg
		Fenazaquin		0.01 mg/kg to 20.0 mg/kg
		Fernobucarb		0.01 mg/kg to 1.0 mg/kg
		Fenpyroximate		0.01 mg/kg to 30.0 mg/kg
		Fenthion		0.01 mg/kg to 1.0 mg/kg
		Flubendiamide		0.01 mg/kg to 100 mg/kg
		Flufenacet		0.01 mg/kg to 5.0 mg/kg
		Flufenoxuron		0.02 mg/kg to 100 mg/kg
		Flusilazole		0.01 mg/kg to 5.0 mg/kg
		Forchlorfenuron		0.025 mg/kg to 5.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>38 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Fosetyl - Al	In-house Validate Method	0.01 mg/kg to 100 mg/kg
		Glufosinate	SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.02 mg/kg to 10 mg/kg
		Glyphosate	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.02 mg/kg to 50 mg/kg
		Hexaconazole	Based on	0.01 mg/kg to 1.0 mg/kg
		Iprovalicarb	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22; 2012;	0.01 mg/kg to 100 mg/kg
		Isoprothialone	J.Chromatography A 1173: 2007	0.01 mg/kg to 1.0 mg/kg
		Isoproturon		0.01 mg/kg to 5.0 mg/kg
		Kresoxim- Methyl		0.01 mg/kg to 100 mg/kg
		Linuron		0.01 mg/kg to 5.0 mg/kg
		Lufenuron		0.01 mg/kg to 100 mg/kg
		Malathion		0.01 mg/kg to 2.0 mg/kg
		Malaoxon		0.01 mg/kg to 2.0 mg/kg
		Mandipropamid		0.075 mg/kg to 100 mg/kg
		Mepiquat		0.01 mg/kg to 30.0 mg/kg
		Metalaxyl		0.01 mg/kg to 100 mg/kg
		Metalaxyl – M		0.01 mg/kg to 100 mg/kg
		Methamidophos		0.01 mg/kg to 1.0 mg/kg
		Methomyl		0.01 mg/kg to 2.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>39 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Metribuzin	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 10.0 mg/kg
		Monocrotophos	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Myclobutanil	Based on	0.01 mg/kg to 100 mg/kg
		Novaluron	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22; 2012;	0.01 mg/kg to 1.0 mg/kg
		Ocharatoxin A	J.Chromatography A 1173: 2007	0.01 mg/kg to 1.0 mg/kg
		Omethoate		0.01 mg/kg to 2.0 mg/kg
		Oxyfluorfen		0.01 mg/kg to 10 mg/kg
		Paclobutrazol		0.01 mg/kg to 5.0 mg/kg
		Paraxon methyl		0.01 mg/kg to 1.0 mg/kg
		Paraquat		0.01 mg/kg to 2.0 mg/kg
		Parathion		0.01 mg/kg to 5.0 mg/kg
		Penconazole		0.01 mg/kg to 20.0 mg/kg
		Pencycuron		0.01 mg/kg to 5.0 mg/kg
		Pendimethalin		0.01 mg/kg to 5.0 mg/kg
		Phenthoate		0.01 mg/kg to 1.0 mg/kg
		Phorate		0.01 mg/kg to 1.0 mg/kg
		Phoratesulfone		0.01 mg/kg to 1.0 mg/kg
		Phoratesulfoxide		0.01 mg/kg to 1.0 mg/kg
		Phosphamidon		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>40 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Propanil	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 10 mg/kg
		Propiconazole	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 30.0 mg/kg
		Quinalphos	Based on AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012; J.Chromatography A 1173: 2007	0.01 mg/kg to 5.0 mg/kg
		Simazine		0.01 mg/kg to 20 mg/kg
		Spinosad - A		0.01 mg/kg to 50 mg/kg
		Spinosad - D		0.01 mg/kg to 50 mg/kg
		Spiromesifen		0.01 mg/kg to 2.0 mg/kg
		Tebuconazole		0.01 mg/kg to 100 mg/kg
		Temephos		0.01 mg/kg to 1.0 mg/kg
		Thiamethoxam		0.01 mg/kg to 50 mg/kg
		Thiobencarb		0.02 mg/kg to 10 mg/kg
		Thiodicarb		0.01 mg/kg to 2.0 mg/kg
		Triadimefon		0.01 mg/kg to 100 mg/kg
		Thionazin		0.01 mg/kg to 1.0 mg/kg
		Thiophanate - Methyl		0.01 mg/kg to 10 mg/kg
		Thiometon		0.01 mg/kg to 1.0 mg/kg
		Triadimenol		0.01 mg/kg to 100 mg/kg
		Triazophos		0.01 mg/kg to 1.0 mg/kg
		Trichlorfon		0.01 mg/kg to 1.0 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchathram Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>41 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Tricyclazole	In-house Validate Method SMSLA/IN/SOP/05 Issue. 01	0.01 mg/kg to 5.0 mg/kg
		Tridemorph	Dated. 02.11.2012	0.01 mg/kg to 1.0 mg/kg
		Uracil	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 100 mg/kg
		1-Naphthyl acetic acid	Based on	0.01 mg/kg to 5.0 mg/kg
		Dithiocarbamates	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012; J.Chromatography A 1173: 2007	0.01 mg/kg to 10.0 mg/kg
		Pyrethrins		0.01 mg/kg to 50 mg/kg
		Metolachlor		0.01 mg/kg to 10.0 mg/kg
		Propetamphos		0.01 mg/kg to 1.0 mg/kg
		Chlorothalonil		0.01 mg/kg to 3.0 mg/kg
		Transfluthrin		0.01 mg/kg to 1.0 mg/kg
		Trifluralin		0.01 mg/kg to 1.0 mg/kg
		Benfluralin		0.01 mg/kg to 1.0 mg/kg
		Hexathiazox		0.01 mg/kg to 10.0 mg/kg
		Buprofezin		0.01 mg/kg to 10.0 mg/kg
		Trifloxystrobin		0.01 mg/kg to 5.0 mg/kg
		Propargite		0.01 mg/kg to 7.0 mg/kg
		Carbosulfan		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>42 of 112</b>

<b>S. No.</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>
	<b>Fruits and Vegetables</b>	Fenpropathrin	In-house Validate Method	0.01 mg/kg to 1.0 mg/kg
		Methoxychlor	SMSLA/IN/SOP/05 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 5.0 mg/kg
		Lambda cyhalothrin	SMSLA/IN/SOP/06 Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 2.0 mg/kg
		Coumaphos	Based on	0.01 mg/kg to 1.0 mg/kg
		Esfenvalerate	AOAC (19 <sup>th</sup> Edition) 970.52, 985.22: 2012; J.Chromatography A 1173: 2007	0.01 mg/kg to 10.0 mg/kg
		Fenvalerate		0.01 mg/kg to 2.0 mg/kg
		Pyraclostrobin		0.02 mg/kg to 100 mg/kg
		Fluvalinate_tau		0.01 mg/kg to 10.0 mg/kg
		Indoxacarb		0.01 mg/kg to 100 mg/kg
		Captafol		0.01 mg/kg to 2.0 mg/kg
		Fipronil		0.00025 mg/kg to 0.03 mg/kg
		Pyriproxyfen		0.025 mg/kg to 0.3 mg/kg
		Iprodione		0.02 mg/kg to 100 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>43 of 112</b>

<b>S. No.</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>
<b>2.</b>	<b>Fruits and Fruit Products Fruits Apples/Oranges/ Pears/Longan/ Grapes/Kiwi/ Dragon Fruit/Mango/ Mangosteen/Pine Apple, Parsley And Other Fruit Products Fruit Cocktails/Fruit Soup Powder/Fruit Cerel Flakes/Frozen Fruits/ Dehydrated Fruits and Other</b>	Benzoic acid	SMSLA/IN/SOP/72 Issue. 01/ Dated. 06.07.2016	10 mg/kg to 2000 mg/kg
		Sorbic acid		10 mg/kg to 2000 mg/kg
		Inorganic bromide	SMSLA/IN/SOP/82 Issue. 01/ Dated. 15.02.2016	5 mg/kg to 500 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>44 of 112</b>

<b>S. No.</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>
<b>3.</b>	<b>Vegetable and Vegetable Products Vegetables Curry Leaves Ladies Finger Carrot Cabbage Onion And Other Vegetable Products Frozen Vegetables, Dehydrated Vegetables And Other</b>	Benzoic acid	SMSLA/IN/SOP/72 Issue. 01/ Dated. 06.07.2016	10 mg/kg to 2000 mg/kg
		Sorbic acid		10 mg/kg to 2000 mg/kg
		Inorganic bromide	SMSLA/IN/SOP/82 Issue. 01/ Dated. 15.02.2016	5 mg/kg to 500 mg/kg
<b>4.</b>	<b>Milk &amp; Milk Products</b>	o,p DDT	In-house Validate Method SMSLA/IN/SOP/15	0.01 mg/kg to 5.0 mg/kg
		o,p DDE	Issue. 01 Dated. 02.11.2012	0.01 mg/kg to 5.0 mg/kg
		o,p DDD	Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 5.0 mg/kg
		p,p DDT		0.01 mg/kg to 2.0 mg/kg
		p,p DDE		0.01 mg/kg to 5.0 mg/kg
		p,p DDD		0.01 mg/kg to 5.0 mg/kg
		Alpha HCH		0.01 mg/kg to 1.0 mg/kg
		Beta HCH		0.01 mg/kg to 1.0 mg/kg
		Gama - HCH (Lindane )		0.01 mg/kg to 1.0 mg/kg
		Delta –HCH		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>45 of 112</b>

<b>S. No.</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>
	<b>Milk &amp; Milk Products</b>	Alpha Endosulfan	In-house Validate Method	0.01 mg/kg to 5.0 mg/kg
		Beta Endosulfan	SMSLA/IN/SOP/15	0.01 mg/kg to 5.0 mg/kg
		Endosulfan Sulphate	Issue. 01 Dated. 02.11.2012.	0.01 mg/kg to 5.0 mg/kg
		Ethion	Based on	0.01 mg/kg to 1.0 mg/kg
		Methyl Parathion	AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 1.0 mg/kg
		Aldrin		0.01 mg/kg to 1.0 mg/kg
		Dieldrin		0.01 mg/kg to 1.0 mg/kg
		Diazinon		0.01 mg/kg to 1.0 mg/kg
		Endrin		0.01 mg/kg to 1.0 mg/kg
		Heptachlor		0.01 mg/kg to 1.0 mg/kg
		Heptachlor epoxide		0.01 mg/kg to 1.0 mg/kg
		Phosalone		0.01 mg/kg to 1.0 mg/kg
		Dichlorvos		0.01 mg/kg to 1.0 mg/kg
		Fenthion		0.01 mg/kg to 1.0 mg/kg
		Malathion		0.01 mg/kg to 2.0 mg/kg
		Paraxon methyl		0.01 mg/kg to 1.0 mg/kg
		Methoxychlor		0.01 mg/kg to 5.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchathram Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>46 of 112</b>

<b>S. No.</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>
<b>5.</b>	<b>Fish &amp; Fishery Products / Poultry &amp; Poultry Products</b>	o,p DDT	In-house Validate Method SMSLA/IN/SOP/16 Issue. 01 Dated. 02.11.2012 Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 5.0 mg/kg
		o,p DDE		0.01 mg/kg to 5.0 mg/kg
		o,p DDD		0.01 mg/kg to 5.0 mg/kg
		p,p DDT		0.01 mg/kg to 2.0 mg/kg
		p,p DDE		0.01 mg/kg to 5.0 mg/kg
		p,p DDD		0.01 mg/kg to 5.0 mg/kg
		Alpha HCH		0.01 mg/kg to 1.0 mg/kg
		Beta HCH		0.01 mg/kg to 1.0 mg/kg
		Gama - HCH (Lindane )		0.01 mg/kg to 1.0 mg/kg
		Delta –HCH		0.01 mg/kg to 1.0 mg/kg
		Alpha Endosulfan		0.01 mg/kg to 5.0 mg/kg
		Beta Endosulfan		0.01 mg/kg to 5.0 mg/kg
		EndosulfanSulphate		0.01 mg/kg to 5.0 mg/kg
		Ethion		0.025 mg/kg to 1.0 mg/kg
		Diazinon		0.01 mg/kg to 1.0 mg/kg
		Phosalone		0.01 mg/kg to 1.0 mg/kg
		Atrazine		0.01 mg/kg to 5.0 mg/kg
		Carbaryl		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>47 of 112</b>

<b>S. No.</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>
	<b>Fish &amp; Fishery Products / Poultry &amp; Poultry Products</b>	Chlorfenvinphos	In-house Validate Method SMSLA/IN/SOP/16 Issue. 01 Dated. 02.11.2012 Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 2.0 mg/kg
		Chlorpyrifos-Ethyl		0.01 mg/kg to 50.0 mg/kg
		Chlorpyrifos-Methyl		0.01 mg/kg to 20.0 mg/kg
		Dichlorvos		0.01 mg/kg to 1.0 mg/kg
		Dimethoate		0.01 mg/kg to 2.0 mg/kg
		Fenarimol		0.01 mg/kg to 30.0 mg/kg
		Fenthion		0.01 mg/kg to 1.0 mg/kg
		Myclobutanil		0.01 mg/kg to 100 mg/kg
		Omethoate		0.01 mg/kg to 2.0 mg/kg
		Pendimethalin		0.01 mg/kg to 5.0 mg/kg
		Phorate		0.025 mg/kg to 1.0 mg/kg
		Phosphamidon		0.01 mg/kg to 1.0 mg/kg
		Quinalphos		0.01 mg/kg to 5.0 mg/kg
		Simazine		0.01 mg/kg to 20 mg/kg
		Triazophos		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>48 of 112</b>

<b>S. No.</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>
	<b>Fish &amp; Fishery Products / Poultry &amp; Poultry Products</b>	Antifungal agents (Dyes)		
		Malachite Green	SMSLA/IN/SOP/19 Issue. 1 Dated. 18.07.2012	0.5 ug/kg to 3.5 ug/kg
		Crystal Violet	based on Quantitative and confirmatory analysis of	0.5 ug/kg to 3.5 ug/kg
		Leuco Crystal Violet	malachite green and	0.5 ug/kg to 3.5 ug/kg
		Leuco Malachite Green	Leucomalachite Green residues in fish and shrimp-LIB No:4363, Volume 21,No:11,Nov 2005.	0.5 ug/kg to 3.5 ug/kg
		Histamine	SMSLA/IN/SOP/55 Issue. 1 Dated. 22.01.2015 based on Journal of Chromatography A 1032,(2004)79-85	5 mg/kg to 100 mg/kg
<b>6.</b>	<b>Spices &amp; Condiments</b>	Pesticides:	In-house Validate Method SMSLA/IN/SOP/18 Issue. 01 Dated. 02.11.2012.	
		o,p DDE	Based on	0.01 mg/kg to 5.0 mg/kg
		o,p DDD	AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 5.0 mg/kg
		p,p DDT		0.01 mg/kg to 2.0 mg/kg
		p,p DDE		0.01 mg/kg to 5.0 mg/kg
		p,p DDD		0.01 mg/kg to 5.0 mg/kg
		Alpha HCH		0.01 mg/kg to 1.0 mg/kg
		Beta HCH		0.01 mg/kg to 1.0 mg/kg
		Gama - HCH (Lindane )		0.01 mg/kg to 1.0 mg/kg
		Delta -HCH		0.01 mg/kg to 1.0 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>49 of 112</b>

<b>S. No.</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>
	<b>Spices &amp; Condiments</b>	Alpha Endosulfan	In-house Validate Method SMSLA/IN/SOP/18 Issue. 01 Dated. 02.11.2012. Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 5.0 mg/kg
		Beta Endosulfan		0.01 mg/kg to 5.0 mg/kg
		Endosulfan Sulphate		0.01 mg/kg to 5.0 mg/kg
		Ethion		0.01 mg/kg to 1.0 mg/kg
		Diazinon		0.01 mg/kg to 1.0 mg/kg
		Phosalone		0.01 mg/kg to 1.0 mg/kg
		Acephate		0.01 mg/kg to 1.0 mg/kg
		Atrazine		0.01 mg/kg to 5.0 mg/kg
		Carbaryl		0.01 mg/kg to 1.0 mg/kg
		Chlorfenvinphos		0.01 mg/kg to 2.0 mg/kg
		Chlorpyrifos-Ethyl		0.01 mg/kg to 50.0 mg/kg
		Chlorpyrifos-Methyl		0.01 mg/kg to 20.0 mg/kg
		Dichlorvos		0.01 mg/kg to 1.0 mg/kg
		Dimethoate		0.01 mg/kg to 2.0 mg/kg
		Fenarimol		0.01 mg/kg to 30.0 mg/kg
		Fenthion		0.01 mg/kg to 1.0 mg/kg
		Myclobutanil		0.01 mg/kg to 100 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>50 of 112</b>

<b>S. No.</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>
	<b>Spices &amp; Condiments</b>	Omethoate	In-house Validate Method SMSLA/IN/SOP/18 Issue. 01 Dated. 02.11.2012. Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 2.0 mg/kg
		Pendimethalin		0.01 mg/kg to 5.0 mg/kg
		Phorate		0.01 mg/kg to 1.0 mg/kg
		Phosphamidon		0.01 mg/kg to 1.0 mg/kg
		Quinalphos		0.01 mg/kg to 5.0 mg/kg
		Simazine		0.01 mg/kg to 20 mg/kg
		Triazophos		0.01 mg/kg to 1.0 mg/kg
		Sudan Dyes		
		SUDAN I 1-phenylazonaphth-2-ol	SMSLA/IN/SOP/54 Issue. 1 Dated. 01/02.06.2015 based on journal of chem.soc.pak. Vol. 28, No. 3: 2006 AOAC (11 <sup>th</sup> Edition): (1970) pp 575	100 µg/kg to 10000 µg/kg
		SUDAN II 1-(2,4-dimethylphenyl) azonaphthalen-2-ol		100 µg/kg to 10000 µg/kg
		SUDAN III 1-(4-(phenyldiazenyl) phenyl) azonaphthalen-2-ol		100 µg/kg to 10000 µg/kg
		SUDAN IV 1-(2-methyl-4-(2-methyl phenyldiazenyl) phenyl) azonaphthalen-2-ol		100 µg/kg to 10000 µg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>51 of 112</b>

<b>S. No.</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>
7.	<b>Cereals &amp; Pulses Black (Matpe/Green Peas/Chick Peas/Toor/Green Moong/Red Lentils)</b>	Pesticide Residues		
		Aldrin	SMSLA/IN/SOP/33 Issue. 1 Dated. 22.01.2015 Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 1.0 mg/kg
		Dieldrin		0.01 mg/kg to 1.0 mg/kg
		Carbaryl		0.01 mg/kg to 1.0 mg/kg
		Chlordane		0.01 mg/kg to 1.0 mg/kg
		Diazinon		0.01 mg/kg to 1.0 mg/kg
		Dichlorvos		0.01 mg/kg to 1.0 mg/kg
		Fenitrothion		0.01 mg/kg to 1.0 mg/kg
		Heptachlor		0.01 mg/kg to 1.0 mg/kg
		Malathion		0.01 mg/kg to 1.0 mg/kg
		Phosphamidon		0.01 mg/kg to 1.0 mg/kg
		Pyrethrins		0.01 mg/kg to 1.0 mg/kg
		Chlorfenvinphos		0.01 mg/kg to 1.0 mg/kg
		Chlorpyrifos		0.01 mg/kg to 1.0 mg/kg
		Ethion		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>52 of 112</b>

<b>S. No.</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>
	<b>Cereals &amp; Pulses Black (Matpe/Green Peas/Chick Peas/Toor/Green Moong/Red Lentils)</b>	Monocrotophos	SMSLA/IN/SOP/33 Issue. 1 Dated. 22.01.2015 Based on AOAC (19 <sup>th</sup> Edition): 2012	0.01 mg/kg to 1.0 mg/kg
		Paraquat Dichloride		0.01 mg/kg to 1.0 mg/kg
		Trichlorfon		0.01 mg/kg to 1.0 mg/kg
		Thiometon		0.01 mg/kg to 1.0 mg/kg
		Carbendazim		0.01 mg/kg to 1.0 mg/kg
		Benomyl		0.01 mg/kg to 1.0 mg/kg
		Carbofuran		0.01 mg/kg to 1.0 mg/kg
		Deltamethrin		0.01 mg/kg to 1.0 mg/kg
		Fenthion		0.01 mg/kg to 1.0 mg/kg
		Dithiocarbomates		0.01 mg/kg to 1.0 mg/kg
		Phenthoate		0.01 mg/kg to 1.0 mg/kg
		Phorate		0.01 mg/kg to 1.0 mg/kg
		Pirimiphos-Methyl		0.01 mg/kg to 1.0 mg/kg
		Oxydemeton methyl		0.01 mg/kg to 1.0 mg/kg
		2,4-D		0.01 mg/kg to 1.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>53 of 112</b>

<b>S. No.</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>
<b>8.</b>	<b>Cereals, Pulses and Cereal Products Cereals Atta/Maida/Semolina/ Besan/Pearl Barley/Food Grains/Rolled Oats and Other Cereal Products Corn Flour/Corn Flakes, Custard Powder/ Macaroni Products/Malt Andmalt Based Foods/Solvent Extracted Flours and Other</b>	Aflatoxins B1	SMSLA/IN/SOP/52 Issue. 01/ Dated. 04.09.2014	2.5 ug/kg to 50 ug/kg
		Aflatoxins B2		2.5 ug/kg to 50 ug/kg
		Aflatoxins G1		2.5 ug/kg to 50 ug/kg
		Aflatoxins G2		2.5 ug/kg to 50 ug/kg
		Ochratoxin A	SMSLA/IN/SOP/75 Issue. 01/ Dated. 05.08.2016	1.0 ug/kg to 50 ug/kg
		Deoxyvalenol	SMSLA/IN/SOP/76 Issue. 01/ Dated. 02.11.2015	0.1 ug/kg to 2 mg/kg
		Alpha-BHC	SMSLA/IN/SOP/42 Issue. 01/ Dated. 24.01.2015	5 ug/kg to 150 ug/kg
		Beta-BHC		5 ug/kg to 150 ug/kg
		Gamma-BHC		5 ug/kg to 150 ug/kg
		Delta-BHC		5 ug/kg to 150 ug/kg
<b>9.</b>	<b>Fish &amp; Fishery Products</b>	Inorganic Bromide	SMSLA/IN/SOP/82 Issue. 01/ Dated. 15.02.2016	5 mg/kg to 500 mg/kg
		Antibiotic Residues		
		Chloramphenicol	In-house Validate Method SMSLA/IN/SOP/10 Issue. 01 Dated. 03.06.2013 By LC-MS-MS based on US-FDA 4290	0.15 µg/kg to 1.05 µg/kg
		Nitrofurans		

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>54 of 112</b>

<b>S. No.</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>
	<b>Fish &amp; Fishery Products</b>	Nitrofurazone	In-house Validate Method SMSLA/IN/SOP/11 Issue. 01	0.5 µg/kg to 5.0 µg/kg
		Furazolidone	Dated. 03.06.2013 By LC-MS-MS based on	0.5 µg/kg to 5.0 µg/kg
		Nitrofurantoin	Journal of Food and Drug Analysis Vol.18 No:02 -2010	0.5 µg/kg to 5.0 µg/kg
		Furaltadone	Pages 98 -106	0.5 µg/kg to 5.0 µg/kg
		Nitrofurantoin Metabolites		
		AMOZ	In-house Validate Method SMSLA/IN/SOP/12 Issue. 01	0.5 µg/kg to 5.0 µg/kg
		AOZ	Dated. 03.06.2013 By LC-MS-MS based	0.5 µg/kg to 5.0 µg/kg
		SEM	Journal of chromatography A-939 (2001) – Page 49-58	0.5 µg/kg to 5.0 µg/kg
		AHD		0.5 µg/kg to 5.0 µg/kg
		Tetracyclines		
		Tetracycline	In-house Validate Method SMSLA/IN/SOP/13 Issue. 01	10 µg/kg to 175 µg/kg
		Oxytetracycline	Dated. 03.06.2013 By LC-MS-MS	10 µg/kg to 175 µg/kg
		Chlortetracycline	Journal of chromatography A-928 (2001),	10 µg/kg to 175 µg/kg
		4-epitetracycline	A-1216(2009),	10 µg/kg to 175 µg/kg
		4-epioxytetracycline	A-987 (2003)	10 µg/kg to 175 µg/kg
		4-epichlortetracycline		10 µg/kg to 175 µg/kg
		Doxycycline		10 µg/kg to 175 µg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>55 of 112</b>

<b>S. No.</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>
<b>a.</b>	<b>Fish &amp; Fishery Products</b>	Sulfonamides		
		Sulfadoxine	SMSLA/IN/SOP/14 Issue. 01/ Dated. 03.06.2013	25 µg/kg to 175 µg/kg
		Sulfanilamide	Based on the Elsiever (TALANTA) 55 (2001)	25 µg/kg to 175 µg/kg
	<b>Prawn and Prawn Products/ Shrimps and Others</b>	Trimethoprim	(P.No: 1127-1139) In-house Validate Method by LC MS-MS	25 µg/kg to 175 µg/kg
		Sulfamethazine		10 µg/kg to 175 µg/kg
		Sulfamerazine		10 µg/kg to 175 µg/kg
		Sulfapyridine		10 µg/kg to 175 µg/kg
		Sulphadiazine		10 µg/kg to 175 µg/kg
		Sulfamethoxazole		10 µg/kg to 175 µg/kg
		Sulfathiazole		10 µg/kg to 175 µg/kg
		Sulfachloropyridazine		10 µg/kg to 175 µg/kg
		Sulfamethizole		10 µg/kg to 175 µg/kg
		Sulfamethoxypyridazine		10 µg/kg to 175 µg/kg
		Sulfadimethoxine		10 µg/kg to 175 µg/kg
		Fluoroquinolones		
		Ciprofloxacin	SMSLA/IN/SOP/57 Issue. 01/ Dated. 24.01.2015	25 µg/kg to 250 µg/kg
		Danofloxacin	Based on Agilent application note	25 µg/kg to 250 µg/kg
		Difloxacin		75 µg/kg to 750 µg/kg
		Enrofloxacin		25 µg/kg to 250 µg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>56 of 112</b>

<b>S. No.</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>
	<b>Prawn and Prawn Products/ Shrimps and Others</b>	Norfloxacin	SMSLA/IN/SOP/57 Issue. 01/ Dated. 24.01.2015	7.5 µg/kg to 75 µg/kg
		Sarafloxacin	Based on Agilent application note	7.5 µg/kg to 75 µg/kg
		Quinolones		
		Oxolinic Acid	SMSLA/IN/SOP/57 Issue. 01/ Dated. 24.01.2015	25 µg/kg to 250 µg/kg
		Flumequine	Based on Agilent application note	50 µg/kg to 500 µg/kg
		Nalidixic Acid		7.5 µg/kg to 75 µg/kg
		NON DIOXIN LIKE-PCB		
		PCB 28-2,4,4' – trichlorobiphenyl	SMSLA/IN/SOP/73 Issue. / Date: 01/02.11.2015	12.5 µg/kg to 120 µg/kg
		PCB 52-2,2',5,5' – tetrachlorobiphenyl	Based on Biotage Application Note AN768	12.5 µg/kg to 120 µg/kg
		PCB 101-2,2',4,5,5' pentachlorobiphenyl		12.5 µg/kg to 120 µg/kg
		PCB 138 -2',3,4,4',5' hexachlorobiphenyl		12.5 µg/kg to 120 µg/kg
		PCB 153 2,2',4,4',5,5' hexachlorobiphenyl		12.5 µg/kg to 120 µg/kg
		PCB 180 2,2',3,4,4',5,5' heptachlorobiphenyl		12.5 µg/kg to 120 µg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>57 of 112</b>

<b>S. No.</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>
<b>10.</b>	<b>Nut &amp; Nut Products</b>	Aflatoxin		
		Aflatoxin B1	In-house Validate Method	2.5 µg/kg to 50 µg/kg
		Aflatoxin B2	SMSLA/IN/SOP/51 Issue. 01 Dated. 27.05.2015 By HPLC	2.5 µg/kg to 50 µg/kg
		Aflatoxin G1	based on	2.5 µg/kg to 50 µg/kg
		Aflatoxin G2	AOAC (19 <sup>th</sup> Edition) 980.21, 986.16: 2012	2.5 µg/kg to 50 µg/kg
<b>11.</b>	<b>Dairy &amp; Dairy Products</b>	Aflatoxin M1	In-house Validate Method SMSLA/IN/SOP/21 Issue. 01 Dated. 03.06.2013 By HPLC based on AOAC (19 <sup>th</sup> Edition): 2012	2.5 µg/kg to 50 µg/kg
		Water soluble vitamins		
		Pyridoxal- 5- Phosphate	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Thiamine	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Pyridoxine	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		D - Pentothenic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Nicotinic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Niacin	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Ascorbic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>58 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products</b>	Pyridoxal	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Folic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Riboflavin	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Nicotinamide	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Cyanocobalamine	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Biotin	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Pyridoxamine	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Lipoic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		4-Aminobenzoic Acid	SMSLA/IN/SOP/43 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Fat soluble vitamins		
		Vitamin A Palmitate	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin D2	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>59 of 112</b>

<b>S. No.</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>
	<b>Dairy &amp; Dairy Products</b>	Vitamin D3	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin E	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin E Acetate	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin K1	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin K2	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Vitamin A	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
		Gamma Tocopherol	SMSLA/IN/SOP/44 Issue. 1 Dated. 22.01.2015	(0.1 mg to 50 mg)/100 g
<b>12.</b>	<b>Milk &amp; Milk Products</b>	Melamine	SMSLA/IN/SOP/45	5 µg/kg to 200 µg/kg
<b>13.</b>	<b>Tea</b>	tert-Butylhydroquinone	SMSLA/IN/SOP/74 Issue. 01/ Dated. 05.08.2016	10 mg/kg to 300 mg/kg
		Butylated hydroxyanisole		10 mg/kg to 300 mg/kg
		3,5-Di-tert-4-butyhydroxytoluene		10 mg/kg to 300 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>60 of 112</b>

<b>S. No.</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>
	<b>Tea</b>	Catechins in tea		
		Gallic acid	SMSLA/IN/SOP/86 Issue. 01/ Dated. 02.01.2016	0.1 mg/kg to 100 mg/kg
		Catechin hydrate		0.1 mg/kg to 100 mg/kg
		Catechin gallate		0.1 mg/kg to 100 mg/kg
		Epicatechin gallate		0.1 mg/kg to 100 mg/kg
		Epicatechin		0.1 mg/kg to 100 mg/kg
		Gallocatechin		0.1 mg/kg to 100 mg/kg
		Epigallocatechin		0.1 mg/kg to 100 mg/kg
		Aflatoxins B1	SMSLA/IN/SOP/052 Issue. 01/ Dated. 04.09.2014	1.0 µg/kg to 50 µg/kg
		Aflatoxins B2		1.0 µg/kg to 50 µg/kg
		Aflatoxins G1		1.0 µg/kg to 50 µg/kg
		Aflatoxins G2		1.0 µg/kg to 50 µg/kg
		Hyperciene	SMSLA/IN/SOP/053 Issue. 01/ Dated. 24.01.2015	0.05 mg/kg to 5 mg/kg
		Agaric Acid		5 mg/kg to 200 mg/kg
		Saffrole		0.5 mg/kg to 10 mg/kg
		Dicofol	SMSLA/IN/SOP/42 Issue. 01/ Dated. 24.01.2015	5 µg/kg to 10000 µg/kg
		Ethion		5 µg/kg to 10000 µg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>61 of 112</b>

<b>S. No.</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>
	<b>Tea</b>	Quinalphos	SMSLA/IN/SOP/42 Issue. 01/ Dated. 24.01.2015	5 µg/kg to 10000 µg/kg
		Glyphosate		5 µg/kg to 10000 µg/kg
		Fenzaquin		5 µg/kg to 10000 µg/kg
		Glufosinate Ammonium		5 µg/kg to 10000 µg/kg
		Propargite		5 µg/kg to 10000 µg/kg
<b>14.</b>	<b>Herbs, Spices and Condiments</b>	Inorganic Bromide	SMSLA/IN/SOP/82 Issue. 01/ Dated. 15.02.2016	0.5 mg/kg to 500.0 mg/kg
	<b>Herbs, Spices and Condiments</b>	Aflatoxins B1	SMSLA/IN/SOP/52 Issue. 01/ Dated. 04.09.2014	2.5 ug/kg to 50 ug/kg
	<b>Caraway/</b>	Aflatoxins B2		2.5 ug/kg to 50 ug/kg
	<b>Cardamom/</b>	Aflatoxins G1		2.5 ug/kg to 50 ug/kg
	<b>Chillies/</b>	Aflatoxins G2		2.5 ug/kg to 50 ug/kg
	<b>Capsicum/</b>			
	<b>Cinnamon/Cassia/</b>			
	<b>Cloves/Coriander/</b>			
	<b>Cumin/Ginger/</b>			
	<b>Mace/Mustard/</b>			
	<b>Nutmeg/ Pepper</b>			
	<b>(White &amp; Black)/</b>			
	<b>Poppy/Turmeric/</b>			
	<b>Curry and Other</b>			
<b>15.</b>	<b>Bakery and Confectionary Products</b>	Benzoic acid	SMSLA/IN/SOP/72 Issue. 01/ Dated. 06.07.2016	10 mg/kg to 2000 mg/kg
		Sorbic acid		10 mg/kg to 2000 mg/kg
	<b>Bread</b>	Aflatoxins B1	SMSLA/IN/SOP/52 Issue. 01/ Dated. 04.09.2014	2.5 ug/kg to 50 ug/kg
	<b>Biscuits</b>	Aflatoxins B2		2.5 ug/kg to 50 ug/kg
	<b>Wafer Roll</b>	Aflatoxins G1		2.5 ug/kg to 50 ug/kg
	<b>Cakes</b>	Aflatoxins G2		2.5 ug/kg to 50 ug/kg
	<b>Toffee</b>			
	<b>Chocolate</b>			
	<b>Lozenges And Other</b>			

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>62 of 112</b>

<b>S. No.</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>
<b>16.</b>	<b>Edible Colours and Flavours Onion Flavour, Tomato Flavour, Pineapple Flavour (Kiwi Flavour, Semi Finished Flavour Compound, Synthetic Flavours, Savoury Flavour, Cheese Flavour, Flavour Powder, Caramel Flavour, Vegetable Flavouring Powder, Food Flavour And Other</b>	Benzoic acid	SMSLA/IN/SOP/72 Issue. 01/ Dated. 06.07.2016	10 mg/kg to 2000 mg/kg
		Sorbic acid		10 mg/kg to 2000 mg/kg
		Aflatoxins B1	SMSLA/IN/SOP/52 Issue. 01/ Dated. 04.09.2014	2.5 ug/kg to 50 ug/kg
		Aflatoxins B2		2.5 ug/kg to 50 ug/kg
		Aflatoxins G1		2.5 ug/kg to 50 ug/kg
		Aflatoxins G2		2.5 ug/kg to 50 ug/kg
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Colour	IS 3025 (Part 4): 1983 (RA 2012) / APHA (22 <sup>nd</sup> Edition) 2120 B: 2012	1 Hazen to 50 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2012) / APHA (22 <sup>nd</sup> Edition) 2150: 2012	Qualitative (Agreeable / Disagreeable)
		Taste	IS 3025 (Part 8): 1984 (RA 2012)/ APHA (22 <sup>nd</sup> Edition) 2160 C: 2012	Qualitative (Agreeable / Disagreeable)

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>63 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Turbidity	IS 3025 (Part 10): 1984 (RA 2012) / APHA (22 <sup>nd</sup> Edition) 2130 B: 2012	0.1 NTU to 50 NTU
		pH @ 25°C	IS 3025 (Part 11): 1984 (RA 2012)/ APHA (22 <sup>nd</sup> Edition) 4500 H <sup>+</sup> -B: 2012	1 to 14
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)/ APHA (22 <sup>nd</sup> Edition) 2540C: 2012	1 mg/l to 5000 mg/l
		Aluminium as Al	IS 3025(Part 55): 2009 / IS 15302 / APHA (22 <sup>nd</sup> Edition) 3120: 2012	0.007 mg/l to 20 mg/l
			IS 3025:Part 65:2014 SMSLA/EN/SOP-019	0.001 to 10 mg/L
		Anionic Detergents as MBAS	IS 13428: 2009 Annexure K / APHA (22 <sup>nd</sup> Edition) 5540 C: 2012	0.05 mg/l to 5.0 mg/l
		Barium as Ba	IS 13428: 2009 Annexure F / IS 15302 / APHA (22 <sup>nd</sup> Edition) 3111 D: 2012	0.1 mg/l to 10.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>64 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Borates as B	IS 3025 (Part 57): 2009 / APHA (22 <sup>nd</sup> Edition) 3120: 2012/ IS 13428: 2009 Annexure H	0.1 mg/l to 10.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3500 Ca B: 2012	0.5 mg/l to 5000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 Cl: 2012	1.0 mg/l to 2000 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.005 mg/l to 10.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Fluoride as F	IS 3025 (Part 60): 2008 / APHA (22 <sup>nd</sup> Edition) 4500 F-: 2012	0.1 mg/l to 5.0 mg/l
		Free residual chlorine	IS 3025 (Part 26): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500-Cl E: 2012	0.1 mg/l to 10.0 mg/l



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>65 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Iron as Fe	IS 3025 (Part 53): 2009 / IS 15302 / APHA (22 <sup>nd</sup> Edition) 3120: 2012	0.05 mg/l to 20 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3500 Mg B: 2012	0.5 mg/l to 5000 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2012 / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.01 mg/l to 10.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Mineral Oil	IS 3025 (Part 39): 1991 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 5520: 2012	0.01 mg/l to 1.0 mg/l Qualitative (Absent/Present)
		Nitrate as NO <sub>3</sub>	IS 3025(Part 34): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500-NO <sub>3</sub> : 2012	1 mg/l to 100 mg/l
		Phenolic compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43): 1992 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 5530 A: 2012	0.001 mg/l to 1.00 mg/l Qualitative (Absent/Present)
		Selenium (as Se)	IS 3025 (Part 56): 2009 / IS 15303 / APHA (22 <sup>nd</sup> Edition) 3113 B,3114 C: 2012	0.003 mg/l to 1.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>66 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Silver as Ag	IS 13428: 2009 Annexure J / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.007 mg/l to 20.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> – E: 2012	1.0 mg/l to 5000 mg/l
		Sulphide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 S - F: 2012	0.02 mg/l to 10 mg/l
		Total Alkalinity as HCO <sub>3</sub>	IS 3025 (Part 23): 1986 (RA 2003) / APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 5000 mg/l
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111B: 2012	0.002 mg/l to 10 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA1998) / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.004 mg/l to 20 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>67 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500-CN-E: 2012 (by ISE)	0.01 mg/l to 2.0 mg/l
		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.005 mg/l to 10 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.0005 mg/l to 1 mg/l
			EPA 200.8	0.0005 mg/l to 10 mg/l
		Nickel as Ni	IS 13428 / IS 3025 (Part 54): 2003 Annexure L / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.004 mg/l to 10 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Total Arsenic as As	IS 3025 (Part 37): 1988 (RA 1999)/ APHA (22 <sup>nd</sup> Edition) 3114 B,3113B: 2012	0.004 mg/l to 2.0 mg/l

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>68 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water / Packaged Natural Mineral Water</b>	Arsenic as As	IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Total Chromium as Cr	IS 13428 / IS 3025 (Part 52): 2009 Annexure J / APHA (22 <sup>nd</sup> Edition) 3120: 2012	0.006 mg/l to 10.0 mg/l
		Chromium as Cr	IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3500-Na B: 2012	1.0 mg/l to 1000 mg/l
		Antimony as Sb	IS 13428: 2009 Annexure G / IS 15303: 2003/ APHA (22 <sup>nd</sup> Edition) 3114 C: 2012	0.004 mg/l to 1.0 mg/l
			IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l
		Bromates as BrO <sub>3</sub>	ISO 15061: 2001	0.005 mg/l to 5 mg/l
		Nitrite as NO <sub>2</sub>	IS 3025(Part 34): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500- NO <sub>2</sub> : 2012	0.01 mg/l to 10 mg/l

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>69 of 112</b>

<b>S. No.</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>
<b>2.</b>	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Colour	IS 3025 (Part 4): 1983(RA 2012) APHA (22 <sup>nd</sup> Edition) 2120 B: 2012	1 Hazens to 50 Hazens
		Odour	IS 3025 (Part 5): 1983 (RA 2012) / APHA (22 <sup>nd</sup> Edition) 2150: 2012	Qualitative (Agreeable / Disagreeable)
		Taste	IS 3025 (Part 8): 1984 (RA 2012)/ APHA (22 <sup>nd</sup> Edition) 2160 C: 2012	Qualitative (Agreeable / Disagreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006) / APHA (22 <sup>nd</sup> Edition) 2130 B: 2012	0.1 NTU to 50 NTU
		pH @ 25°C	IS 3025 (Part 11): 1984 (RA 2012)/ APHA (22 <sup>nd</sup> Edition) 4500 H <sup>+</sup> - B: 2012	1 to 14
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)/ APHA (22 <sup>nd</sup> Edition) 2540C: 2012	1 mg/l to 5000 mg/l
		Chloramine	APHA (22 <sup>nd</sup> Edition) 4500-Cl G: 2012	1.0 mg/l to 10 mg/l
		Molybdenenum	IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.001 mg/l to 10 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>70 of 112</b>

<b>S. No.</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>
	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Cadmium	IS 3025 (Part 65): 2014 / SMSLA/EN/SOP-019	0.0004 mg/l to 10 mg/l
		Bromoform	SMSLA/IN/SOP/29 Issue. & Dated. 01/02.11.2012	5 µg/l to 500 µg/l
		Trichloromethane	SMSLA/IN/SOP/29 Issue. & Dated. 01/02.11.2012	5 µg/l to 500 µg/l
		Dibromochloromethane	SMSLA/IN/SOP/29 Issue. & Dated. 01/02.11.2012	5 µg/l to 500 µg/l
		Bromodichloromethane	SMSLA/IN/SOP/29 Issue. & Dated. 01/02.11.2012	5 µg/l to 500 µg/l
		Aluminium as Al	IS 3025(Part 55) 3111 D, 3113 B: 2012 / APHA (22 <sup>nd</sup> Edition): 2012	0.007 mg/l to 25 mg/l
		Ammonia as NH <sub>4</sub>	IS 3025(Part 34): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500- NH <sub>3</sub> : 2012	0.01 mg/l to 20.0 mg/l
		Anionic Detergents as MBAS	IS 13428: 2009 Annexure K / APHA (22 <sup>nd</sup> Edition) 5540 C: 2012	0.05 mg/l to 5.0 mg/l
		Barium as Ba	IS 13428: 2009 Annexure F / APHA (22 <sup>nd</sup> Edition) 3111D: 2012	0.1 mg/l to 25.0 mg/l
		Boron as B	IS 3025 (Part 57): 2009 / APHA (22 <sup>nd</sup> Edition) 3120: 2012/ IS 13428: 2009 Annexure H	0.1 mg/l to 10.0 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>71 of 112</b>

<b>S. No.</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>
	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3500 Ca B: 2012	0.5 mg/l to 10000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 Cl: 2012	1.0 mg/l to 1000 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111B: 2012	0.005 mg/l to 25 mg/l
		Fluride as F	IS 3025 (Part 60): 2008 / APHA (22 <sup>nd</sup> Edition) 4500 F-: 2012	0.1 mg/l to 5.0 mg/l
		Free residual chlorine	IS 3025 (Part 26 ): 1986 (RA 2009) / APHA (22 <sup>nd</sup> Edition) 4500-Cl E: 2012	0.1 mg/l to 10.0 mg/l
		Iron as Fe	IS 3025:(Part 53): 2009 / APHA (22 <sup>nd</sup> Edition) 3111B: 2012	0.05 mg/l to 50 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3500 Mg B: 2012	0.5 mg/l to 500 mg/l

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>72 of 112</b>

<b>S. No.</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>
	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Manganese as Mn	IS 3025 (Part 59): 2012 / APHA (22 <sup>nd</sup> Edition) 3111B: 2012	0.01 mg/l to 20.0 mg/l
		Mineral Oil	IS 3025 (Part 39): 1991 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 5520 O&G,B: 2012	0.01 mg/l to 5.0 mg/l
		Nitrate as NO <sub>3</sub>	IS 3025 (Part 34): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500-NO <sub>3</sub> - B: 2012	1 mg/l to 100 mg/l
		Phenolic compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43): 1992 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 5530 A: 2012	0.001 mg/l to 1.0 mg/l
		Selenium (as Se)	IS 3025 (Part 53): 2009 / APHA (22 <sup>nd</sup> Edition) 3114 C,3113 B: 2012	0.005 mg/l to 1.0 mg/l
		Silver as Ag	IS 13428: 2005 Annexure J / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.007 mg/l to 20.0 mg/l
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> - E: 2012	1.0 mg/l to 5000 mg/l
		Silica as SiO <sub>2</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SiO <sub>2</sub> D: 2012/ IS 3025 (Part 35) (RA 2003)	0.01 mg/l to 10 mg/l



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>73 of 112</b>

<b>S. No.</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>
	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Sulfide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 S - F: 2012	0.04 mg/l to 10.0 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 (RA 2003) / APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 1983 (RA 2012) / APHA (22 <sup>nd</sup> Edition) 2340 C: 2012	1.0 mg/l to 10000 mg/l
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.002 mg/l to 50 mg/l
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 1998) / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.004 mg/l to 10 mg/l
		Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500 – CN- E: 2012 (by ISE)	0.01 mg/l to 2.0 mg/l
		Lead as Pb	IS 3025 (Part 47): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3111B: 2012	0.005 mg/l to 25 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>74 of 112</b>

<b>S. No.</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>
	<b>Drinking Water Processed Food Industry/ Ground Water/ Water from Purifiers/Others</b>	Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 3112 B: 2012	0.0005 mg/l to 1 mg/l
		Nickel as Ni	IS 3025 (Part 54): 2003 / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.004 mg/l to 25 mg/l
		Total Arsenic as As	IS 3025 (Part 37): 1988 (RA 1999)/ APHA (22 <sup>nd</sup> Edition) 3114 B, 3113 B: 2012	0.004 mg/l to 1.0 mg/l
		Total Chromium as Cr	IS 3025 (Part 52): 2009 / APHA (22 <sup>nd</sup> Edition) 3111 B: 2012/ IS 13428: 2004 Annexure J	0.006 mg/l to 10 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 1999)/ APHA (22 <sup>nd</sup> Edition) 3500-Na B: 2012	1.0 mg/l to 1000 mg/l
		Antimony as Sb	IS 13428 Annexure G / APHA (22 <sup>nd</sup> Edition) 3120: 2012	0.004 mg/l to 5.0 mg/l
		Nitrite as NO <sub>2</sub>	IS 3025(Part 34): 1988 (RA 2009)/ APHA (22 <sup>nd</sup> Edition) 4500-NO <sub>2</sub> B: 2012	0.01 mg/l to 10 mg/l
		Apperance	APHA (22 <sup>nd</sup> Edition) 2110: 2012	Qualitative (Visual Examination)

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>75 of 112</b>

<b>S. No.</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>
<b>3.</b>	<b>Drinking Water</b>	Phenolphthalein Alkalinity	APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 1000 mg/l
	<b>Processed Food</b>	CaCO <sub>3</sub>		
	<b>Industry/</b>	Hexavalent Chromium as Cr <sup>6+</sup>	IS 3025 (Part 52): 2003 / APHA (22 <sup>nd</sup> Edition) 3500 – Cr,B: 2012	0.03 mg/l to 10 mg/l
	<b>Ground Water/</b>			
	<b>Water from</b>			
	<b>Purifiers/Others</b>			
	<b>Water</b>	Organic solids	IS 3025 (Part 18): 1986 (RA 2012)	1 mg/l to 1000 mg/l
	<b>Construction</b>	Inorganic solids	IS 3025 (Part 18): 1984 (RA 2012)	1 mg/l to 10000 mg/l
	<b>Purpose</b>			
		Sulphates as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2009)	1 mg/l to 5000 mg/l
		Chlorides as Cl	IS 3025 (Part 32): 1988 (RA 2009)	1 mg/l to 5000 mg/l
		Suspended Matter	IS 3025 (Part 17): 1984 (RA 2002)	1 mg/l to 5000 mg/l
		pH Value @ 25°C	IS 3025 (Part 11): 1984 (RA 2012)	1 to 14
		To neutralize 100ml of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 (Part 22) (RA 2003)	0.1 ml to 50 ml
		To neutralize 100ml of sample water using Mixed indicator using 0.02 N H <sub>2</sub> SO <sub>4</sub>	IS 3025 (Part 23) (RA 2003)	0.1 ml to 50 ml

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>76 of 112</b>

<b>S. No.</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>
<b>4.</b>	<b>Reagent Grade Water</b>	Specific Conductance at 25 °C	APHA (22 <sup>nd</sup> Edition) 2510: 2012/ IS 3025 (Part 14) (RA 2002)	1 µs/cm to 500 µs/cm
		pH value @ 25 °C	APHA (22 <sup>nd</sup> Edition) 4500 H <sup>+</sup> - B: 2012/ IS 3025 (Part 11) (RA 2012)	1 to 14
		Total solids at 105 °C	APHA (22 <sup>nd</sup> Edition) 2540 B: 2012 / IS 3025 (Part 15) (RA 2009)	1 mg/l to 100 mg/l
		Silica as SiO <sub>2</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SiO <sub>2</sub> D: 2012/ IS 3025 (Part 35) (RA 2003)	0.01 mg/l to 10 mg/l
		Colour retention of KMnO <sub>4</sub> at 27 °C	IS 1070: 2003 Annexure A	Qualitative
<b>5.</b>	<b>Swimming Pools/ Surface Water</b>	Total alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 10000 mg/l
		Phenolphthalein Alkalinity CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 1000 mg/l
		Aluminium as Al	APHA (22 <sup>nd</sup> Edition) 3111 D, 3113 B- Al: 2012	0.007 mg/l to 50 mg/l
		Total Residual chlorine	APHA (22 <sup>nd</sup> Edition) 4500- Cl B: 2012	0.1 mg/l to 10.0 mg/l
		Oxygen consumed in 4 hrs	IS 3025 (Part 63): 1964 (RA 2008) Clause. 51	0.2 mg/l to 6 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>77 of 112</b>

<b>S. No.</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>
	<b>Swimming Pools/ Surface Water</b>	Total Dissolved solids	APHA (22 <sup>nd</sup> Edition) 2540C: 2012	1 mg/l to 10000 mg/l
		Chloride as Cl	APHA (22 <sup>nd</sup> Edition) 4500 Cl-B: 2012	1.0 mg/l to 10000 mg/l
		Iron as Fe	APHA (22 <sup>nd</sup> Edition) 3500- Fe B: 2012 (by UV)/ APHA (22 <sup>nd</sup> Edition) 3111B- Fe B: 2012	0.05 mg/l to 50 mg/l
		Lead as Pb	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.005 mg/l to 50 mg/l
		Colour	APHA (22 <sup>nd</sup> Edition) 2120 B: 2012	1 Hazen to 100 Hazen
		Odour	APHA (22 <sup>nd</sup> Edition) 2150 B: 2012	Qualitative (Agreeable/Disagreeable)
		Taste	APHA (22 <sup>nd</sup> Edition) 2160 B: 2012	Qualitative (Agreeable/Disagreeable)
		Turbidity, NTU	APHA (22 <sup>nd</sup> Edition) 2130 B: 2012	0.1 to 200
		pH @ 25°C	APHA (22 <sup>nd</sup> Edition) 4500 H <sup>+</sup> - B: 2012	1 to 14
		Conductivity @ 25°C	APHA (22 <sup>nd</sup> Edition) 2510 B: 2012	1 µs/cm to 10000 µs/cm
		Dissolved Oxygen	APHA (22 <sup>nd</sup> Edition) 4500- O B: 2012	0.2 mg/l to 8 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>78 of 112</b>

<b>S. No.</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>
	<b>Swimming Pools/ Surface Water</b>	BOD at 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2003)	2.0 mg/l to 5000 mg/l
		COD	APHA (22 <sup>nd</sup> Edition) 5220 B: 2012	4 mg/l to 5000 mg/l
		Oil and Grease	APHA (22 <sup>nd</sup> Edition) 5520 B: 2012 (Partition Gravimetric method)	1 mg/l to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2340 C: 2012	1.0 mg/l to 10000 mg/l
		Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> – B: 2012	1 mg/l to 5000 mg/l
		Nitrates as NO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 4500-NO <sub>3</sub> -B: 2012	1 mg/l to 50 mg/l
		Free Ammonia as NH <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 4500- NH <sub>3</sub> B,C: 2012	0.1 mg/l to 20 mg/l
		Fluoride as F	APHA (22 <sup>nd</sup> Edition) 4500 F-B,D: 2012	0.1 mg/l to 10 mg/l
		Calcium as Ca	APHA (22 <sup>nd</sup> Edition) 3500 Ca B: 2012	0.5 mg/l to 5000 mg/l
		Magnesium as Mg	APHA (22 <sup>nd</sup> Edition) 3500 Mg B: 2012	0.5 mg/l to 5000 mg/l
		Copper as Cu	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.05 mg/l to 50.0 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>79 of 112</b>

<b>S. No.</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>
	<b>Swimming Pools/ Surface Water</b>	Zinc as Zn	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.02 mg/l to 50.0 mg/l
		Manganese as Mn	APHA (22 <sup>nd</sup> Edition) 3111B Mn: 2012	0.1 mg/l to 50.0 mg/l
		Boron as B	APHA (22 <sup>nd</sup> Edition) 4500 B: 2012/ IS 13428 (RA 2009) Annexure H	0.1 mg/l to 10.0 mg/l
		Barium Ba	APHA (22 <sup>nd</sup> Edition) 3111 D: 2012	0.1 mg/l to 25 mg/l
		Silver Ag	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.05 mg/l to 25 mg/l
		Arsenic as As	APHA (22 <sup>nd</sup> Edition) 3114 B, 3113 B: 2012	0.002 mg/l to 1.0 mg/l
		Mercury as Hg	APHA (22 <sup>nd</sup> Edition) 3112 B: 2012	0.0005 mg/l to 1.0 mg/l
		Cadmium as Cd	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.004 mg/l to 10.0 mg/l
		Hexavalent Chromium as Cr <sup>6+</sup>	APHA (22 <sup>nd</sup> Edition) 3500 Cr B: 2012	0.03 mg/l to 0.2 mg/l
		Selenium as Se	APHA (22 <sup>nd</sup> Edition) 3114 C, 3113 B: 2012	0.003 mg/l to 1.0 mg/l
		Cyanide as CN	APHA (22 <sup>nd</sup> Edition) 4500- CN- C, E: 2012 (by ISE)	0.01 mg/l to 2.0 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>80 of 112</b>

<b>S. No.</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>
	<b>Swimming Pools/ Surface Water</b>	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA (22 <sup>nd</sup> Edition) 5530 C: 2012	0.001 mg/l to 1 mg/l
		Anionic detergents (as MBAS)	APHA (22 <sup>nd</sup> Edition) 5540 B,C: 2012	0.05 mg/l to 5.0 mg/l
		Percent Sodium (%)	IS 2296: 1982	5 % to 100 %
		Sodium Absorption Ratio	IS 11624: 1986 (RA 2001)	2 me/l to 1000 me/l
		Silica as SiO <sub>2</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SiO <sub>2</sub> C,D: 2012	0.01 mg/l to 50 mg/l
		Sulphite as SO <sub>3</sub> - Iodometric method	APHA (22 <sup>nd</sup> Edition) 4500B-SO <sub>3</sub> : 2012	2.0 mg/l to 50 mg/l
		Phosphate as PO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition) 4500- P B,D: 2012	0.05 mg/l to 100 mg/l
<b>6.</b>	<b>Packaged Drinking Water Natural Mineral Water Processed Food Industry Drinking Water</b>	Pesticides		
		Alachlor	SMSLA/IN/SOP/02 Issue. 1 Dated. 18.07.2012 By	0.01 µg/l to 1.2 µg/l
		Atrazine	GCMSMS Based on USEPA 508 Rev. 3.0 (1989)/525.5 Rev. 2.0 (1995) /8321B Rev. 2	0.01 µg/l to 1.2 µg/l
		Aldrin	February 2007 /515.1 Rev. 4.0 (1989/532 Rev. 1.0 June 2000/ 8141A Rev. 1 September 1994 & 1657A Rev. A September 2000	0.01 µg/l to 1.2 µg/l
		Dieldrin		0.01 µg/l to 1.2 µg/l
		Alpha-HCH		0.01 µg/l to 1.2 µg/l
		Beta-HCH		0.01 µg/l to 1.2 µg/l
		Butachlor		0.01 µg/l to 1.2 µg/l



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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>81 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water Natural Mineral Water Processed Food Industry Drinking Water</b>	Chlorpyriphos	SMSLA/IN/SOP/02 Issue. 1 Dated. 18.07.2012 By	0.01 µg/l to 1.2 µg/l
		Delta-HCH	GCMSMS Based on USEPA 508 Rev. 3.0 (1989)/525.5 Rev. 2.0 (1995) /8321B Rev. 2	0.01 µg/l to 1.2 µg/l
		o,p'DDT	February 2007 /515.1 Rev. 4.0 (1989/532 Rev. 1.0 June 2000/ 8141A Rev. 1 September 1994 & 1657A Rev. A September 2000	0.01 µg/l to 1.2 µg/l
		p,p'DDT		0.01 µg/l to 1.2 µg/l
		o,p'DDE		0.01 µg/l to 1.2 µg/l
		p,p'DDE		0.01 µg/l to 1.2 µg/l
		o,p'-DDD		0.01 µg/l to 1.2 µg/l
		p,p'-DDD		0.01 µg/l to 1.2 µg/l
		alpha-Endosulfan		0.01 µg/l to 1.2 µg/l
		beta Endosulfan		0.01 µg/l to 1.2 µg/l
		Endosulfan sulfate		0.01 µg/l to 1.2 µg/l
		Ethion		0.01 µg/l to 1.2 µg/l
		Gamma-HCH (Lindane)		0.01 µg/l to 1.2 µg/l
		Methyl Parathion		0.01 µg/l to 1.2 µg/l
		Methyl Paraoxon		0.01 µg/l to 1.2 µg/l
		Phorate		0.01 µg/l to 1.2 µg/l
		Phoratesulphoxide		0.01 µg/l to 1.2 µg/l
		Phoratesulphone		0.01 µg/l to 1.2 µg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>82 of 112</b>

<b>S. No.</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>
	<b>Packaged Drinking Water Natural Mineral Water Processed Food Industry Drinking Water</b>	Isoproturon	SMSLA/IN/SOP/01 Issue. 1 Dated. 18.07.2012 By LCMSMS	0.01 µg/l to 1.2 µg/l
		Malathion	Based on EPA method 525.2 Rev. 2.0 : 1995 /3510 Rev. 3	0.01 µg/l to 1.2 µg/l
		Malaoxon	December 1996/532 Rev. 1.0	0.01 µg/l to 1.2 µg/l
		Monocrotophos	June 2000/8141A Rev. 1	0.01 µg/l to 1.2 µg/l
		2,4-D	September 1994 /1657A Rev. A September 2000 &8321A Rev. 1	0.01 µg/l to 1.2 µg/l
		Polychlorinated biphenyls (PCBs)	December 1996	0.01 µg/l to 1.2 µg/l
			SMSLA/IN/SOP/03 Issue. 1 Dated. 18.07.2012 by GCMSMS based on EPA method 608 Rev 2.2 EPA EMSL-Ci May 1991,EPA 3510 Rev. 3 December 1996 & Annexure M IS 13428: 2005	0.01 µg/l to 1.0 µg/l
		Polynuclear aromatic hydrocarbons (PAHs)	SMSLA/IN/SOP/04 Issue. 1 Dated. 18.07.2012 by GCMSMS based on APHA 6440/USEPA 525.2 Rev. 2.0: 1995 & IS 5182 (Part 12): 2004.	0.01 µg/l to 1.0 µg/l
<b>IV. ENVIRONMENT</b>				
<b>1.</b>	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Colour	APHA (22 <sup>nd</sup> Edition) 2120 B: 2012	1 Hazens to 500 Hazens
		Temperature °C	APHA (22 <sup>nd</sup> Edition) 2550B: 2012	25 °C to 100 °C
		pH value @ 25°C	APHA (22 <sup>nd</sup> Edition) 4500 H <sup>+</sup> - B: 2012	1 to 14

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>83 of 112</b>

<b>S. No.</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>
	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Total suspended solids(TSS)	APHA (22 <sup>nd</sup> Edition) 2540 D: 2012	1 mg/l to 1000 mg/l
		Total Dissolved solids	APHA (22 <sup>nd</sup> Edition) 2540 C: 2012	1 mg/l to 50000 mg/l
		Conductivity $\mu\text{S/cm}$ @ 25 °C	APHA (22 <sup>nd</sup> Edition) 2510 B: 2012	1 $\mu\text{S/cm}$ to 50000 $\mu\text{S/cm}$
		Oil and Grease	APHA (22 <sup>nd</sup> Edition) 5520: 2012 (Partition Gravimetric method)	4 mg/l to 5000 mg/l
		Total Residual chlorine	APHA (22 <sup>nd</sup> Edition) 4500 Cl-B: 2012	0.1 mg/l to 10 mg/l
		Free Ammonia as $\text{NH}_3$	APHA (22 <sup>nd</sup> Edition) 4500 $\text{NH}_3$ B,C: 2012	0.5 mg/l to 50 mg/l
		Ammonical Nitrogen as $\text{NH}_3\text{-N}$	APHA (22 <sup>nd</sup> Edition) 4500 $\text{NH}_3$ B,C: 2012	1.0 mg/l to 100 mg/l
		Total Kjeldahl Nitrogen as N	APHA (22 <sup>nd</sup> Edition) 4500 Norg - B: 2012	1.0 mg/l to 250 mg/l
		BOD at 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2003)	2.0 mg/l to 10000 mg/l
		BOD at 20°C for 5 days	APHA (22 <sup>nd</sup> Edition) 5210 B: 2012	2.0 mg/l to 5000 mg/l
		COD (Open reflux method)	APHA (22 <sup>nd</sup> Edition) 5220 B: 2012	4 mg/l to 7000 mg/l
		Arsenic as As	As APHA (22 <sup>nd</sup> Edition) 3114B, 3113 B: 2012	0.01 mg/l to 1.0 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>84 of 112</b>

<b>S. No.</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>
	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Mercury as Hg	APHA (22 <sup>nd</sup> Edition) 3112 B: 2005	0.0005 mg/l to 1.0 mg/l
		Lead as Pb	APHA (22 <sup>nd</sup> Edition) 3111 B: 2005	0.005 mg/l to 50 mg/l
		Cadmium as Cd	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.02 mg/l to 25 mg/l
		Hexavalent Chromium as Cr <sup>6+</sup>	APHA (22 <sup>nd</sup> Edition) 3500 Cr B: 2012	0.01 mg/l to 0.2 mg/l
		Total Chromium as Cr	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.25 mg/l to 25 mg/l
		Copper as Cu	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.05 mg/l to 50 mg/l
		Zinc as Zn	APHA (22 <sup>nd</sup> Edition) 3111 B: 2012	0.02 mg/l to 50 mg/l
		Nickel as Ni	APHA (22 <sup>nd</sup> Edition) 3111 B: 2005	0.1 mg/l to 50 mg/l
		Boron as B	APHA (22 <sup>nd</sup> Edition) 3500 B: 2012/ IS 13428 (RA 2009) Annexure H	0.1 mg/l to 10.0 mg/l
		Percent sodium	IS 2296: 1982	5 % to 100 %
		Residual Sodium Carbonate	IS 11624: 1986 (RA 2009)	1.5 me/l to 25 me/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>85 of 112</b>

<b>S. No.</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>
	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Cyanide as CN	APHA (22 <sup>nd</sup> Edition) 4500-CN-C,E: 2012 (by ISE)	0.1 mg/l to 10 mg/l
		Chloride as Cl	APHA (22 <sup>nd</sup> Edition) 4500 Cl <sup>-</sup> B: 2012	1 mg/l to 10000 mg/l
		Fluoride as F	APHA (22 <sup>nd</sup> Edition) 4500 F-B,D: 2012	0.1 mg/l to 10 mg/l
		Total Phosphorous as P	APHA (22 <sup>nd</sup> Edition) 4500- P B,D: 2012	0.05 mg/l to 25 mg/l
		Dissolved Phosphorous as P	APHA (22 <sup>nd</sup> Edition) 4500- P B,D: 2012	0.05 mg/l to 25 mg/l
		Sulphates as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> -B: 2012	5 mg/l to 5000 mg/l
		Sulphide as S - Iodometric Method	APHA (22 <sup>nd</sup> Edition) 4500 S <sup>-</sup> F: 2012	1.0 mg/l to 100 mg/l
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA (22 <sup>nd</sup> Edition) 5530 C: 2012	0.001 mg/l to 1.0 mg/l
		Mixed Liquid suspended solids(MLSS)	APHA (22 <sup>nd</sup> Edition) 2540 D: 2012	5 mg/l to 10000 mg/l
		Mixed Liquid volatile solids(MLVS)	APHA (22 <sup>nd</sup> Edition) 2540 E: 2012	5 mg/l to 10000 mg/l
		Mixed Liquid Fixed Solids(MLFS), mg/l	APHA (22 <sup>nd</sup> Edition) 2540 E: 2012	5 mg/l to 10000 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>86 of 112</b>

<b>S. No.</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>
	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Sludge Volume Index(SVI)	APHA (22 <sup>nd</sup> Edition) 2710 D: 2012	5 ml/g to 1000 ml/g
		Settleable Solids	APHA (22 <sup>nd</sup> Edition) 2540 F: 2012	0.1 ml/l to 100 ml/l
		Iron as Fe	APHA (22 <sup>nd</sup> Edition) 3500 Fe B: 2012	0.02 mg/l to 100 mg/l
		Nitrite as NO <sub>2</sub>	APHA (22 <sup>nd</sup> Edition) 4500- NO <sub>2</sub> B: 2012	0.01 mg/l to 50 mg/l
		Nitrate as NO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 4500- NO <sub>3</sub> - B: 2012	1 mg/l to 100 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	1.0 mg/l to 1000 mg/l
		Magnesium as Mg	APHA (22 <sup>nd</sup> Edition) 3500 Mg B: 2012	0.5 mg/l to 5000 mg/l
		Sodium as Na	APHA (22 <sup>nd</sup> Edition) 3111- Na B: 2012	1 mg/l to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2340 C: 2012	1.0 mg/l to 10000 mg/l
		Calcium as Ca	APHA (22 <sup>nd</sup> Edition) 3500 Ca B: 2012	0.5 mg/l to 10000 mg/l
		Potassium as K	APHA (22 <sup>nd</sup> Edition) 3111B- K B: 2012	1 mg/l to 1000 mg/l
		Fixed Solids	APHA (22 <sup>nd</sup> Edition) 2540E: 2012	5 mg/l to 1000 mg/l

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>87 of 112</b>

<b>S. No.</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>
	<b>STP Water / Effluent Water/ Waste Water/ Treated Water</b>	Volatile Solids	APHA (22 <sup>nd</sup> Edition) 2540 E: 2012	5 mg/l to 1000 mg/l
		Acidity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2310B: 2012	1.0 mg/l to 1000 mg/l
		Calcium Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 3500 Ca B: 2012	1.0 mg/l to 10000 mg/l
		Magnesium Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 3500 Mg B: 2012	1.0 mg/l to 5000 mg/l
		Salinity	APHA (22 <sup>nd</sup> Edition) 2520: 2012	1 ppt to 40 ppt
<b>2.</b>	<b>Industrial Water</b>	Selenium (as Se)	IS 3025 (Part 65): 2014/ SMSLA/EN/SOP-019	0.01 mg/l to 100 mg/l
		Manganese (as Mn)		0.01 mg/l to 100 mg/l
		Vanadium (as V)		0.01 mg/l to 100 mg/l
<b>3.</b>	<b>Soil</b>	Calcium as Ca	EPA method 3050 B Rev. 2 - December 1996/ SMALA/EN/SOP/100 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Magnesium as Mg	EPA method 3050 B Rev. 2 - December 1996/ SMSLA/EN/SOP/101 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Sodium as Na	EPA method 3050 B Rev. 2 - December 1996/by flame photometry	10 mg/kg to 5000 mg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>88 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Potassium as K	EPA method 3050 B Rev. 2 - December 1996/IS 10158: 1982//by flame photometry	10 mg/kg to 5000 mg/kg
		Calcium Carbonate as CaCO <sub>3</sub>	SMSLA/EN/SOP/72 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Lead as Pb	EPA 200.8 Rev. 5.4: 1994	40 mg/kg to 5000 mg/kg
		Cadmium as Cd	EPA 200.8 Rev. 5.4: 1994	25 mg/kg to 5000 mg/kg
		Mercury as Hg	EPA 200.8 Rev. 5.4: 1994	0.1 mg/kg to 1000 mg/kg
		Copper as Cu	EPA 200.8 Rev. 5.4: 1994	3 mg/kg to 1000 mg/kg
		Zinc as Zn	EPA method 3050 B Rev. 2: December 1996	5 mg/kg to 1000 mg/kg
		Selenium as Se	EPA 200.8 Rev. 5.4: 1994	0.5 mg/kg to 1000 mg/kg
		Arsenic as As	EPA 200.8 Rev. 5.4: 1994	0.2 mg/kg to 1000 mg/kg
		Iron as Fe	EPA 200.8 Rev. 5.4: 1994	20 mg/kg to 1000 mg/kg
		Manganese as Mn	EPA 200.8 Rev. 5.4: 1994	10 mg/kg to 1000 mg/kg
		Chromium as Cr	EPA 200.8 Rev. 5.4: 1994	25 mg/kg to 1000 mg/kg
		Nickel as Ni	EPA 200.8 Rev. 5.4: 1994	10 mg/kg to 1000 mg/kg
		Tin as Sn	EPA 200.8 Rev. 5.4: 1994	500 mg/kg to 1000 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>89 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Antimony as Sb	EPA 200.8 Rev. 5.4: 1994	100 mg/kg to 1000 mg/kg
		Aluminium as Al	EPA 200.8 Rev. 5.4: 1994	100 mg/kg to 1000 mg/kg
		Silver as Ag	EPA 200.8 Rev. 5.4: 1994	5 mg/kg to 1000 mg/kg
		Barium as Ba	EPA 200.8 Rev. 5.4: 1994	100 mg/kg to 1000 mg/kg
		Boron as B	EPA 200.8 Rev. 5.4: 1994/ SMSLA/EN/SOP/094 Issue. 01 Dated. 05.02.2015	10 mg/kg to 1000 mg/kg
		Conductivity @ 25 °C	IS 14767: 2000	0.1 µs/cm to 50000 µs/cm
		pH @ 25 °C	IS 10158: 1982 (RA 2007) / IS 2720 (Part 26): 1987 (RA 2007)	1 to 14
		Moisture (%)	IS 2720 (Part 2): 1973 (RA 2012)	0.2 % to 99 %
		Bulk Density	SMSLA/EN/SOP/74 Issue. 01 Dated. 05.02.2015	1 0 kg/m <sup>3</sup> to 5000 kg/m <sup>3</sup>
		C:N Ratio	SMSLA/EN/SOP/75 Issue. 01 Dated. 05.02.2015	NA
		Density g/cc	SMSLA/EN/SOP/77 Issue. 01 Dated. 05.02.2015	0.5 g/cc to 5 g/cc

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>90 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Total Kjeldal Nitrogen as N	IS 10158: 1982 (RA 2007)	5 mg/kg to 1000 mg/kg
		Carbonate as CO <sub>3</sub>	SMSLA/EN/SOP/098 Issue. 01 Dated. 05.02.2015	5 mg/kg to 1000 mg/kg
		Bicarbonate as HCO <sub>3</sub>	SMSLA/EN/SOP/098 Issue. 01 Dated. 05.02.2015	5 mg/kg to 1000 mg/kg
		Chloride as Cl	SMSLA/EN/SOP/097 Issue. 01 Dated. 05.02.2015	5 mg/kg to 1000 mg/kg
		Sulphate as So <sub>4</sub>	SMSLA/EN/SOP/127 Issue. 01 Dated. 05.02.2015 /By Gravimetric Method	5 mg/kg to 10000 mg/kg
		Colour	SMSLA/EN/SOP/78 Issue. 01 Dated. 05.02.2015	Qualitative
		Ash Content (%)	SMSLA/EN/SOP/79 Issue. 01 Dated. 05.02.2015	0.2 % to 90 %
		Cation Exchange Capacity	EPA 9081 Revised September 1986	(10 meq to 5000 meq) /100g
		Exchangeable sodium as Na	SMSLA/EN/SOP/81 Issue. 01 Dated. 05.02.2015	10 mg/kg to 5000 mg/kg
		Exchangeable Potassium as K	SMSLA/EN/SOP/81 Issue. 01 Dated. 05.02.2015	10 mg/kg to 5000 mg/kg
		Exchangeable Calcium as Ca	SMSLA/EN/SOP/81 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>91 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Exchangeable Magnesium as Mg	SMSLA/EN/SOP/81 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Available Nitrogen as N	SMSLA/EN/SOP/82 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Available Phosphorous as P	SMSLA/EN/SOP/83 Issue. 01 Dated. 05.02.2015	5 mg/kg to 5000 mg/kg
		Sodium Absorption ratio	SMSLA/EN/SOP/85 Issue. 01 Dated. 05.02.2015	5 meq/kg to 1000 meq/kg
		Total Water Soluble Solids	IS 2720 (Part 21): 1973	0.1 µs/cm to 50000 µs/cm
		Gross Calorific Value, cal/g	ASTM D 240-02 (Reapproved 2007)/ IS 10158: 1982 (RA 2007)	100 cal/g to 1000 cal/g
		Phosphorous as P	IS 10158: 1982 (RA 2007)	5 mg/kg to 10000 mg/kg
		Total Nitrogen as N	IS 10158: 1982 (RA 2007)	5 mg/kg to 10000 mg/kg
		Total Organic Carbon	SMSLA/EN/SOP/86 Issue. 01 Dated. 05.02.2015	0.1 % to 20 %
		Molybdenum as Mo	EPA 200.8 Rev. 5.4: 1994	100 mg/kg to 5000 mg/kg
		Total Organic matter	IS 2720 (Part 22): 2002	0.1 % to 20 %
		Ammonia as NH <sub>3</sub>	SMSLA/EN/SOP/126 Issue. 01 Dated. 05.02.2015	5 mg/kg to 10000 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>92 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Ammonical Nitrogen as NH <sub>3</sub> -N	SMSLA/EN/SOP/129 Issue. 01 Dated. 05.02.2015	5 mg/kg to 10000 mg/kg
		Hexavalent Chromium as Cr <sup>6+</sup>	EPA 3060A Rev. 1 , December 1996 / EPA 7196 Rev. 1 July 1992	5 mg/kg to 10000 mg/kg
		Nitrates as NO <sub>3</sub>	SMSLA/EN/SOP/124 Issue. 01 Dated. 05.02.2015	5 mg/kg to 10000 mg/kg
		Nitrites as NO <sub>2</sub>	SMSLA/EN/SOP/125 Issue. 01 Dated. 05.02.2015	2 mg/kg to 10000 mg/kg
		Silica as SiO <sub>2</sub>	SMSLA/EN/SOP/87 Issue. 01 Dated. 05.02.2015	0.02 % to 99 %
		Loss on Ignition	SMSLA/EN/SOP/88 Issue. 01 Dated. 05.02.2015	0.2 % to 90 %
		Inert or Over Size Matter	SMSLA/EN/SOP/89 Issue. 01 Dated. 05.02.2015	NA
		Volatile Organic Compounds		
		1,1-Dichloroethylene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Dichloromethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Trans-1,2-Dichloroethene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>93 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	1,1-Dichloroethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Cis-1,2-Dichloroethene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		2,2-Dichloropropane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Bromochloromethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Chloroform	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,1,1-Trichloroethene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,1-Dichloro-1-propene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Carbontetrachloride	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Benzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2 -Dichloroethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Trichloroethylene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2-Dichloropropane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>94 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Dibromomethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Bromodichloromethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Cis-1,3-Dichloropropene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Toluene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		trans-1,3-Dichloropropene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,1,2-Trichloroethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Tetrachloroethene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,3-Dichloropropane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Dibromochloromethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2-Dibromoethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Chlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		m-Xylene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchathram Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>95 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	1,1,1,2-Tetrachloroethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Ethylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		p-Xylene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		o-Xylene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Styrene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Bromoform	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Isopropylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,1,2,2-Tetrachloroethane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Bromobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2,3-Trichloropropane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Propylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		2-Chlorotoluene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchathram Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>96 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	1,3,5-Trimethylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		4-Chlorotoluene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Tert-Butylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2,4-Trimethylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Sec-Butylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,3-Dichlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		p-Isopropyltoluene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,4- Dichlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		n-Butylbenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2-Dichlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2-Dibromo-3-chloropropane	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2,4-Trichlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>97 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Hexachloro-1,3-butadiene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Napthalene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		1,2,3-Trichlorobenzene	EPA Method 8260 Revised Dated. 12. 03.1999	0.1 mg/kg to 7.0 mg/kg
		Hydrocarbons		
		Octane	SMSLA/EN/SOP/136 Issue. 1 Dated. 01/05.02.2015 based on NWTPCH-HCID	5 mg/kg to 15 mg/kg
		Nonane		5 mg/kg to 15 mg/kg
		Decane		5 mg/kg to 15 mg/kg
		Undecane		5 mg/kg to 15 mg/kg
		Dodecane		5 mg/kg to 15 mg/kg
		Tridecane		5 mg/kg to 15 mg/kg
		Tetradecane		5 mg/kg to 15 mg/kg
		Pentadecane		5 mg/kg to 15 mg/kg
		Hexadecane		5 mg/kg to 15 mg/kg
		Heptadecane		5 mg/kg to 15 mg/kg
		Octadecane		5 mg/kg to 15 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>98 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Pristane	SMSLA/EN/SOP/136 Issue. 1 Dated. 01/05.02.2015 based on NWTPCH-HCID	5 mg/kg to 15 mg/kg
		Nanodecane		5 mg/kg to 15 mg/kg
		Phytane		5 mg/kg to 15 mg/kg
		Eicosane		5 mg/kg to 15 mg/kg
		Heneicosane		5 mg/kg to 15 mg/kg
		Docosane		5 mg/kg to 15 mg/kg
		Tricosane		5 mg/kg to 15 mg/kg
		Tetracosane		5 mg/kg to 15 mg/kg
		Pentacosane		5 mg/kg to 15 mg/kg
		Hexacosane		5 mg/kg to 15 mg/kg
		Heptacosane		5 mg/kg to 15 mg/kg
		Octacosane		5 mg/kg to 15 mg/kg
		Nanocosane		5 mg/kg to 15 mg/kg
		Triacontane		5 mg/kg to 15 mg/kg
		N-Hentriacontane		5 mg/kg to 15 mg/kg
		Dotriacontane		5 mg/kg to 15 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>99 of 112</b>

<b>S. No.</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>
	<b>Soil</b>			
		Tritriacontane	SMSLA/EN/SOP/136 Issue. 1 Dated. 01/05.02.2015 based on NWTPCH-HCID	5 mg/kg to 15 mg/kg
		Tetratriacontane		5 mg/kg to 15 mg/kg
		Pentatriacontane		5 mg/kg to 15 mg/kg
		Hexatriacontane		5 mg/kg to 15 mg/kg
		Heptatriacontane		5 mg/kg to 15 mg/kg
		Octatriacontane		5 mg/kg to 15 mg/kg
		Nanotriacontane		5 mg/kg to 15 mg/kg
		Tetracontane		5 mg/kg to 15 mg/kg
		Polynuclear Aromatic Hydrocarbons (PAH)		
		Naphthalene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Acenaphthylene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Acenaphthene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Fluorene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>100 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Anthracene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Phenanthrene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Fluoranthene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Pyrene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Benz(A)Anthracene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Chrysene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Benz(B)Fluoranthene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Benz(K)Fluoranthene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Benzo(A)Pyrene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>101 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	Indeno(1,2,3-CC)Pyrene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Dibenz(A,H)Anthracene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Benzo(G,H,I)Perylene	EPA METHOD 3510C Rev. 3 December 1996 /EPA METHOD 8100 Revised September 1986	0.1 mg/kg to 10 mg/kg
		Polychlorinated Biphenyls (PCB)		
		2,6 dichlorobi phenyl	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg
		2,4,4Tri chlorobi phenyl	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg
		2,2,5,5Tetra chlorobi phenyl	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg
		2,2,3,4,5,5Hexachlorobi phenyl	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg
		2,2,4,4,5,5Hexachlorobi phenyl	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>102 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	2,2,3,4,4,5,5Heptachlorobi phenyl  Organochlorine Pesticides :	EPA 3545A Rev. 1 February 2007/EPA 8082 Revised December 1996	50 ug/kg to 225 ug/kg
		Alpha-HCH	SMSLA/IN/SOP/32 Issue. 1 Dated. 01/20.04.2015	0.1 mg/kg to 2.0 mg/kg
		Beta- HCH	Based on EPA Method 8081A Rev. 1 December 1996 & 3550C	0.1 mg/kg to 2.0 mg/kg
		Gamma- HCH	Rev. 3 February 2007	0.1 mg/kg to 2.0 mg/kg
		Delta- HCH		0.1 mg/kg to 2.0 mg/kg
		Heptachlor		0.1 mg/kg to 2.0 mg/kg
		Aldrin		0.1 mg/kg to 2.0 mg/kg
		Heptachlor Epoxide		0.1 mg/kg to 2.0 mg/kg
		Endosulfan-I		0.1 mg/kg to 2.0 mg/kg
		4,4-DDE		0.1 mg/kg to 2.0 mg/kg
		Dieldrin		0.1 mg/kg to 2.0 mg/kg
		Endrin Ketone		0.1 mg/kg to 2.0 mg/kg
		Endosulfan-II		0.1 mg/kg to 2.0 mg/kg
		4,4-DDD		0.1 mg/kg to 2.0 mg/kg
		Endrin Aldehyde		0.1 mg/kg to 2.0 mg/kg
		Endosulfan Sulfate		0.1 mg/kg to 2.0 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>103 of 112</b>

<b>S. No.</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>
	<b>Soil</b>	4,4-DDT	SMSLA/IN/SOP/32 Issue. 1 Dated. 01/20.04.2015	0.1 mg/kg to 2.0 mg/kg
		Methoxychlor	Based on EPA Method 8081A Rev. 1 December 1996 & 3550C Rev. 3 February 2007	0.1 mg/kg to 2.0 mg/kg
<b>4.</b>	<b>Used Oil / Waste Oil</b>	Arsenic as As	EPA method 3031 Revised December 1996	1.0 mg/kg to 100 mg/kg
		Cadmium as Cd	EPA method 3031 Revised December 1996	1.0 mg/kg to 100 mg/kg
		Chromium as Cr	EPA method 3031 Revised December 1996	1.0 mg/kg to 100 mg/kg
		Nickel as Ni	EPA method 3031 Revised December 1996	1.0 mg/kg to 100 mg/kg
		Lead as Pb	EPA method 3031 Revised December 1996	1.0 mg/kg to 100 mg/kg
		Diluents	ASTM D 322-97 (Reapproved 2007)	0.05 % to 10 %
		Total Halogens as Cl	EPA method 5050 Revised September 1994	10 mg/kg to 5000 mg/kg
		Neutralization number	ASTM-D 974-08	(1 mg to 25 mg) KOH/ g
		Poly aromatic Hydrocarbons	ASTM D 5412-93(Reapproved 2007) by GCMS	2 mg/kg to 50 mg/kg
		Polychlorinated Biphenyl	ASTMD 6160- 98(Reapproved 2008)	2 mg/kg to 50 mg/kg

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>104 of 112</b>

<b>S. No.</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>
	<b>Used Oil / Waste Oil</b>	Saponification Value	ASTM-D 94-07	(1 mg to 180 mg) KOH/g
		Density @ 15°C	ASTM D 1298-99 (Reapproved 2005)	0.800 g/cc to 3.000 g/cc
		Kinematic viscosity in CST	ASTM D 445: 2006	1 cst to 50 cst
		Water content	ASTM D 95-05	0.05 % to 10 %
		Flash point	ASTM D 93-08	40 °C to 250 °C
		Fire point	ASTM D 93-08	40 °C to 360 °C
		Sediment	ASTM D 1796-04 (Reapproved 2009)	0.05 % to 10 %
		Ash content	ASTM D 482-07	0.2 % to 90 %
		GCV	ASTM D 240-02 (Reapproved 2007)	50 kcal/kg to 10000 kcal/kg
		Sulphur	ASTM D 129-00 (Reapproved 2005)	0.1 % to 10 %
<b>V.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Stack Emission Monitoring</b>	Oxygen as O <sub>2</sub>	IS 13270: 1992 (RA 2003)/By Flue gas Analyser	0.1 % to 21 %
		Temperature	By Digital thermocouple/ IS 11255 (Part 3): 2003	35°C to 1200 °C



<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>105 of 112</b>

<b>S. No.</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>
	<b>Stack Emission Monitoring</b>	Carbon Dioxide as CO <sub>2</sub>	IS 13270: 1992 (RA 2003)/ By Flue gas Analyser	0.1 % to 25 %
		Carbon Monoxide as CO	IS 13270: 1992 (RA 2003)/ By Flue gas Analyser	1.14 mg/m <sup>3</sup> to 5000 mg/m <sup>3</sup>
		Particulate Matter	IS 11255 (Part 1): 1985 / EPA 5i/EPA 17 Revised July 01, 1991	5 mg/m <sup>3</sup> to 500 mg/m <sup>3</sup>
		Sulphur Dioxide as SO <sub>2</sub>	IS 11255(Part 2): 1985 / EPA 6 (Title 40) Protection of Environment : Revised as of July 1, 1991)/ IS 13270: 1992/ Flue Gas Analyzer	1 mg/m <sup>3</sup> to 2000 mg/m <sup>3</sup>
		Nitrogen Oxides as NO <sub>x</sub>	IS 11255 (Part 7): 1985 /IS 13270: 1992/ EPA 7 (Title 40 – Protection of Environment : Revised as of July 1, 1991)/Flue Gas Analyzer	2.0 mg/m <sup>3</sup> to 1000 mg/m <sup>3</sup>
		Total Fluoride as F	EPA method 13 B (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.1 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
		Sulphuric Acid Mist	EPA method 8 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	1 mg/m <sup>3</sup> to 5000 mg/m <sup>3</sup>
		Moisture Content	EPA Method 1-3 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.1 % to 20 %

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>106 of 112</b>

<b>S. No.</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>
	<b>Stack Emission Monitoring</b>	Ammonia as NH <sub>3</sub>	IS 11255 (Part 6): 1999 (RA 2009)	0.02 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Dioxins and Furans	EPA Method. 23A (sampling) Rev. 1 December 1996	For Sampling
		Lead as Pb	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 10mg/m <sup>3</sup>
		Cadmium as Cd	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.025 mg/m <sup>3</sup> to 5 mg/m <sup>3</sup>
		Mercury as Hg	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.025 mg/m <sup>3</sup> to 20 mg/m <sup>3</sup>
		Copper as Cu	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 30 mg/m <sup>3</sup>
		Arsenic as As	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 50 mg/m <sup>3</sup>
		Manganese as Mn	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Chromium as Cr	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>107 of 112</b>

<b>S. No.</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>
	<b>Stack Emission Monitoring</b>	Nickel as Ni	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
		Antimony as Sb	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
		Cobalt as Co	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Tellurium as Te	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.25 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Vanadaium as V	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.125 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Thallium as Tl	EPA Method. 29 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.001 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Gaseous Discharge (Nm <sup>3</sup> /Hr)	IS 11255 (Part 3): 1985/ EPA 1-3 (Title 40- Protection of Environment : Revised as of July 1, 1991)	NA
		HCl	EPA Method 26A Revised September 28, 1994	0.1 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
		HF	EPA Method 26A Revised September 28, 1994	0.1 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>108 of 112</b>

<b>S. No.</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>
	<b>Stack Emission Monitoring</b>	Velocity	EPA method 1-3 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	1 m/s to 50 m/s
		Non methane hydrocarbons	USEPA Method 25 (Title 40 – Protection of Environment : Revised as of July 1, 1991)	0.1 mg/m <sup>3</sup> to 2000 mg/m <sup>3</sup>
		Volatile organic Compounds (VOCs) (As per EPA 504/524 VOC Mix A)	SMSLA/IN/SOP/07 Issue. 01 Dated. 02.11.2012 USPEA Method 18 Revised may 21, 1993	0.1 mg/m <sup>3</sup> to 2000 mg/m <sup>3</sup>
<b>2.</b>	<b>Ambient Air Quality</b>	Particulate Matter(PM10)	IS 5182 (Part 23): 2006 (RA 2012)/ By gravimetric method	5 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)	3 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Nitrogen dioxide as NO <sub>2</sub>	IS 5182 (Part 6): 1975 (RA 2012)	5 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Carbon Monoxide as CO	IS 5182 (Part 10): 1999 (RA 2009) (Indicator Tube Method)	1.14 mg/m <sup>3</sup> to 343 mg/m <sup>3</sup>
		Lead as Pb	IS 5182 (Part 22): 2004/AAS-method after Sampling on EPM 2000 or Equivalent filter paper.	0.025 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Ammonia as NH <sub>3</sub>	BY Indophenol method	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>109 of 112</b>

<b>S. No.</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>
	<b>Ambient Air Quality</b>	Total Fluorides as F	IS 5182 (Part 13): 1991	0.1 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
		Mercury as Hg	IS 5182 (Part 22): 2004/AAS-method after Sampling on EPM 2000 or Equivalent filter paper.	0.1 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
		Nickel as Ni	IS 5182 (Part 22): 2004/AAS-method after Sampling on EPM 2000 or Equivalent filter paper.	7 ng/m <sup>3</sup> to 1000 ng/m <sup>3</sup>
		Arsenic as As	IS 5182 (Part 22): 2004/AAS-method after Sampling on EPM 2000 or Equivalent filter paper.	1.0 ng/m <sup>3</sup> to 1000 ng/m <sup>3</sup>
		Ozone as O <sub>3</sub>	Chemical Method/ IS 5182 (Part 9) (RA 2009)	3 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Hydrocarbon	IS 5182 (Part 17): 1979 (RA 2009)	2.5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matter(PM2.5)	SMSLA/EN/SOP/062 Issue. 1 Dated. 05.02.2015	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Noise Level	IS 9989: 1981/Sound Level Meter/	30 dB to 130 dB
		Benzo (a) Pyrene (Particulate Phase)	IS 5182 (Part 4) For Sampling USEPA8270 Rev. 7 march 2011 for Analysis	0.16 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
		Poly Aromatic Hydrocarbons (PAH)	IS 5182 (Part 12): 2004/ EPA TO 13A Rev. 2 January 1999	0.16 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>110 of 112</b>

<b>S. No.</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>
	<b>Ambient Air Quality</b>	Hydrocarbon	IS 5182 (Part 117): 1979 (RA 2009)	2.5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Volatile organic compounds	SMSLA/IN/SOP/07 Issue. 01 Dated. 02.11.2012 EPA Compendium Method TO16 Rev. 2 January 1999 TO17 Rev. 2 January 1999	1 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
<b>3.</b>	<b>Indoor Air Quality Monitoring/ Work Zone/ Figutue Emission/ Industrial Hygienic</b>	Respirable particulate matter	NIOSH – 0600 Issue. 3 Dated. 15 January 1998	5 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)	3 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Oxides of nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 1975 (RA 2012)	5 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Ammonia as NH <sub>3</sub>	NIOSH – 6015 Issue. 2 Dated. 15 August 1994	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		VOC's	NIOSH - 2549 Issue. 1 Dated. 15 may 1996 / by PID Analyser	0.1 ppm to 1000 ppm 0.1 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Carbon Monoxide as CO	NIOSH – 6604 Issue. 1 Dated. 15 may 1996 / by IAQ analyser	1.14 mg/m <sup>3</sup> to 300 mg/m <sup>3</sup>
		Lead as Pb	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Cadmium as Cd	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.001 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchatham Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
<b>Certificate Number</b>	<b>T-2637</b>	<b>Valid Until</b>	<b>06.09.2017</b>
<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>111 of 112</b>

<b>S. No.</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>
	<b>Indoor Air Quality Monitoring/ Work Zone/ Figutue Emission/ Industrial Hygienic</b>	Copper as Cu	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Zinc as Zn	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Selenium as Se	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Arsenic as As	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.005 mg/m <sup>3</sup> to 50 mg/m <sup>3</sup>
		Iron as Fe	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Manganese as Mn	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Chromium as Cr	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.01 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Nickel as Ni	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Tin as Sn	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.3 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Antimony as Sb	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Aluminium as Al	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>

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<b>Last Amended on</b>	<b>16.11.2016</b>	<b>Page</b>	<b>112 of 112</b>

<b>S. No.</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>
	<b>Indoor Air Quality Monitoring/ Work Zone/ Figutue Emission/ Industrial Hygienic</b>	Cobalt as Co	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Beryllium as Be	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.005 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Silver as Ag	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.003 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
		Barium as Ba	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.05 mg/m <sup>3</sup> to 1 mg/m <sup>3</sup>
		Vanadium as V	NIOSH – 7300 Issue. 3 Dated. 15 march 2003	0.14 mg/m <sup>3</sup> to 1mg/m <sup>3</sup>
		Carbon Dioxide as CO <sub>2</sub>	SMSLA/EN/SOP/141 Issue. 1 Dated. 05.02.2015	1.8 mg/m <sup>3</sup> to 5000 mg/m <sup>3</sup>
		Heat Stress	SMSLA/EN/SOP/142 Issue. 1 Dated. 05.02.2015	5 °C to 60 °C
		% Relative Humidity	SMSLA/EN/SOP/143 Issue. 1 Dated. 05.02.2015	20 % to 95 %
		Noise Level	IS 9989: 1981/Sound Level Meter	30 dB to 130 dB
		Illumination	SMSLA/EN/SOP/144 Issue. 1 Dated. 05.02.2015	1 LUX to 400000 LUX
		Ozone	Chemical Method/ IS 5182 (Part 9) (RA 2009)	20 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>

**-X-X-X-X-X-X-X-X-X-X-X-X-**

**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**.

**K. Soundira Pandian**  
Convenor

**N. Venkateswaran**  
Program Manager