

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 1 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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

BIOLOGICAL TESTING

I.	WATER			
1.	Drinking Water/Treated Water/Packaged Drinking Water/Natural Mineral Water	Total coliform bacteria	IS 1622-1981, (RA 2014)	Qualitative (Absent/present/100ml 1 to 161 MPN/100ml)
		Faecal coliforms	IS 1622-1981, (RA 2014)	Qualitative (Absent/present/100ml 1 to 161 MPN/100ml)
		E. coli or thermotolerant coliform bacteria	IS 1622-1981, (RA 2014)	Qualitative (Absent/present/100ml 1 to 161 MPN/100ml)
2.	Ground Water/ Surface Water	Standard Plate count at 37°C for 48 hrs	IS 1622-1981, (RA 2014)	≥1.0cfu/ml
		E. coli or thermotolerant coliform bacteria	IS 1622-1981, (RA 2014)	Qualitative (Absent/present/100ml 2 to 1600 MPN/100 ml)
		Total coliform bacteria	IS 1622-1981, (RA 2014)	2 to 1600 MPN/100 ml
		Faecal coliforms	IS 1622-1981, (RA 2014)	Qualitative (Absent/present/100ml 2 to 1600MPN/100ml)
3.	Water for Ice	Standard Plate count at 37°C for 48 hrs	IS 1622-1981, (RA 2014)	≥1.0cfu/ml
		Coliform bacteria	IS 1622-1981, (RA 2014)	1 to 161 MPN/100ml
			IS 15185-2002, (RA 2014)	Qualitative (Absent/present/100ml)
4.	Water for Processed Food Industry	Standard Plate count at 37°C for 48 hrs	IS 1622-1981, (RA 2014)	≥1.0 cfu/ml
		Coliform bacteria	IS 1622-1981, (RA 2014)	1 to 161 MPN/100ml
		Proteolytic Organisms count	IS 42511967 Appendix A (RA 2015)	≥1.0cfu/ml

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 2 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Lipolytic Organisms count	IS 4251-1967 Appendix A (RA 2015)	≥ 1.0 cfu/ml
5.	Water for Swimming Pool and Spas	Standard Plate count at 35.0 ± 0.5 °C for 24 hrs.	IS 3328-1993, Annex A (RA 2013)	≥ 1.0 cfu/ml
		Coliform Organisms	IS 1622-1981, (RA 2014)	1 to 161 MPN/100ml
II.	FOODS & AGRICULTURAL PRODUCTS			
1.	Raw & Cooked Food	Total Coliforms Count	IS 5401 (Part 1) 2012	>10 cfu/g
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30°C for 72 hrs	IS 5402-2012 (RA 2018)	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥ 10 cfu/g
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥ 10 cfu/g
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
2.	Canned & Processed Foods	Total coliforms count	IS 5401 (Part 1) 2012	≥ 10 cfu/g
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30°C for 72 hrs	IS 5402-2012. (RA 2018)	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥ 10 cfu/g
		Yeast &Mould count	IS 5403 1999, (RA 2018)	>10 cfu/g
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)

Laboratory Enviroidesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 3 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Milk & Dairy Products	Total coliforms count	IS 5401 (Part 1) 2012	≥10 cfu/g ≥1 cfu/ml
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30°C for 72 hrs	IS 5402-2012. (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
4.	Bakery and Confectionery products	Total coliforms count	IS 5401 (Part 1) 2012	≥10 cfu/g ≥1 cfu/ml
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30 °C for 72 hrs	IS 5402-2012. (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
5.	Fruits and Vegetables and their products	Total coliforms count	IS 5401 (Part 1) 2012	≥10 cfu/g ≥1 cfu/ml
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 4 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aerobic microbial count at 30 °C for 72 hrs	IS 5402-2012. (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥10 cfu/g ≥1 cfu/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
6.	Cereals and Cereal Products	Total coliforms count	IS 5401 (Part 1) 2012	≥10 cfu/g
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30 °C for 72 hrs	IS 5402-2012. (RA 2018)	≥10 cfu/g
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥10 cfu/g
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥10 cfu/g
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
7.	Herbs, Spices & condiments	Total coliforms count	IS 5401 (Part 1) 2012	≥10 cfu/g
		E. coli	IS 5887 (Part 1) 1976, (RA 2018)	Qualitative (Absent/present/g)
		Aerobic microbial count at 30 °C for 72 hrs	IS 5402-2012 (RA 2018)	≥10 cfu/g
		Salmonella	IS 5887 (Part 3)1999, (RA 2018)	Qualitative (Absent/present/25g)
		Staphylococcus aureus	IS 5887 (Part 8/Sec.1) 2002, (RA 2018)	≥10 cfu/g
		Yeast &Mould count	IS 5403 1999, (RA 2018)	≥10 cfu/g

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 5 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Listeria monocytogenes	IS 14988 (Part 1) 2001, (RA 2018)	Qualitative (Absent/present/25g)
III.	POLLUTION & ENVIRONMENT			
1.	Swabs (Hand swab/Surface swab/Equipment swab etc.)	Total coliforms	EEL/WP/111 (Issue No. 3.0 dt. 01.10.12, Rev. No. 1 dt. 05.07.18)	≥ 1 organism/cm ²
		E.coli	EEL/WP/111 (Issue No. 3.0 dt. 01.10.12, Rev. No. 1 dt. 05.07.18)	Qualitative (Absent/present/ cm ²)
		Aerobic microbial count at 30 °C for 72 hrs	EEL/WP/111 (Issue No. 3.0 dt. 01.10.12, Rev. No. 1 dt. 05.07.18)	≥ 1 organism/ cm ²
		Staphylococcus aureus	EEL/WP/111 (Issue No. 3.0 dt. 01.10.12, Rev. No. 1 dt. 05.07.18)	≥ 1 organism/ cm ²

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 6 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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

CHEMICAL TESTING

I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air/In plant Air quality/ Fugitive emission Monitoring as per CPCB/KSPCB Specifications	Sulphur dioxide	IS 5182 (Part 2)-2001, (RA 2017)	5µg/m ³ to 1000 µg/m ³
		Nitrogen dioxide	IS 5182 (Part 6)-2006, (RA 2017)	5µg/m ³ to 1000 µg/m ³
		Particulate Matter (Size less than 10µm) or PM ₁₀	IS 5182(Part 23)-2006, (RA 2017)	5µg/m ³ to 1000 µg/m ³
		Particulate Matter (Size less than 2.5µm) or PM _{2.5}	EEL/WP/A/04 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	3µg/m ³ to 500 µg/m ³
		Suspended Particulate Matter	IS 5182 (Part 4)-1999, (RA 2014)	10µg/m ³ to 1000 µg/m ³
		Ozone	EEL/WP/A/06 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	2µg/m ³ to 500 µg/m ³
		Ammonia	EEL/WP/A/07 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	18µg/m ³ to 700 µg/m ³
		Benzene	IS 5182 (Part 11)-2006, (RA 2017)	1µg/m ³ to 100 µg/m ³
		Benzo (a) Pyrene	EEL/WP/A/09 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	0.4 ng/m ³ to 100 ng/m ³
		Lead	EEL/WP/A/10 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	6 ng/m ³ to 2000 ng/m ³

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Enviroidesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 7 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic	EEL/WP/A/10 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	0.6 ng/m ³ to 1000 ng/m ³
		Nickel	EEL/WP/A/10 (Issue No. 3.0 dt. 01.10.12), based on CPCB guidelines 2011	3 ng/m ³ to 1000 ng/m ³
		Hydrogen sulphide	IS 5182 (Part 7)-1973, (RA 2014)	2 µg/m ³ to 100 µg/m ³
		Carbon monoxide	Cl. 4 of IS 5182 (Part 10)-1999, (RA 2014)	0.1 mg/m ³ to 100 mg/m ³
2.	Stack Emission	Temperature	IS 11255 (Part 3)-2008, (RA 2013)	5°C to 950 °C
		Velocity	IS 11255 (Part 3)-2008, (RA 2013)	1 m/sec to 30 m/sec
		Flow Rate	IS 11255 (Part 3)-2008, (RA 2013)	50 Nm ³ /hr to 2500000 Nm ³ /hr
		Particulate Matter	IS 11255 (Part 1)-1985, (RA 2014)/USEPA method 5-1991	2 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur dioxide	IS 11255 (Part 2)-1985, (RA 2014)/USEPA method 6-1991	12 mg/Nm ³ to 10000 mg/Nm ³
		Oxides of Nitrogen	IS 11255 (Part 7)-2005, (RA 2017)/USEPA method 7-1991	11 mg/Nm ³ to 4000 mg/Nm ³
		Hydrogen sulphide	IS 11255 (Part 4)-2006, (RA 2017)/USEPA method 11-1991	2mg/Nm ³ to 100 mg/Nm ³
		Ammonia	IS 11255 (Part 6)-1999, (RA 2014)	5 mg/Nm ³ to 200 mg/Nm ³
		Fluoride	USEPA method 13 A-1991	1 mg/Nm ³ to 100 mg/Nm ³
		Mercury	USEPA method 29-1991	0.03 mg/Nm ³ to 100 mg/Nm ³

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 8 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Vanadium	USEPA method 29-1991	0.3 mg/Nm ³ to 200 mg/Nm ³
		Nickel	USEPA method 29-1991	0.3 mg/Nm ³ to 200 mg/Nm ³
		Lead	USEPA method 29-1991	0.3 mg/Nm ³ to 200 mg/Nm ³
		Sulphuric Acid emission	USEPA method 8-1991	12 mg/Nm ³ to 1000 mg/Nm ³
		Carbon monoxide	USEPA method 10-1991	5 mg/Nm ³ to 1250 mg/Nm ³
3.	Ambient/Source Noise Levels (Plant area)	Leq-Equivalent noise level	IS 9989-1981, (RA 2008)	30 dB (A) to 130 dB (A)
4.	Flue gas monitoring	CO	Instrumental method (SOP No. EEL/ENV/MP/01) based on manufactures manual for flue gas analyzer	2 ppm to 1000 ppm
		CO ₂		1% to 99 %
		O ₂		1% to 99 %
5.	Light intensity monitoring	Illumination	Instrumental method (SOP No. EEL/ENV/MP/01)	Upto 50000 LUX
6.	Heat Stress	Wet bulb globe temp.	Instrumental method (SOP No. EEL/ENV/MP/01)	20°C to 50 °C
II.	FOOD & AGRICULTURAL PRODUCTS			
1.	Bakery and Confectionery Products (Biscuit, chocolate, cocoa powder, sweets, sugar boiled confectionary, tea, coffee, cake, bread)	Moisture	IS 12711-1989 (RA 2015)	1 % to 25 %
		Ash	IS 12711-1989 (RA 2015)	0.1 % to 15 %
		Protein	IS7219-1973 (RA 2010)	0.5 % to 25 %
		Total Fat	IS 12711-1989 (RA 2015)	0.5 % to 40 %
		Non Fat Milk Solids	FSSAI Lab Manual for Beverages, Sugar & Confectionery, products,2015,C4	0.1 % to 70 %

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 9 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cocoa solids	FSSAI Lab Manual for Beverages, Sugar & Confectionery products,2015,C8	0.1 % to 50 %
		Milk fat	FSSAI Lab Manual for Beverages, Sugar & Confectionery products,2015,C7	0.1 % to 50 %
		Crude fibre	IS 12711-1989 (RA 2015)	0.1 % to 50 %
		Acid insoluble ash	FSSAI Lab Manual for Beverages, Sugar & Confectionery products,2015,C6	0.01 % to 25 %
		Ash sulphated	FSSAI Lab Manual for Beverages, Sugar & Confectionery products,2015,A3	0.1 % to 25 %
2.	Cereals and Cereal Products (Wheat, rice, atta, maida,suji,rava, oats, rice powder, food grains,lentils, pulses,semolina, besan,cornflour, macroni, corn flakes, bakery products)	Moisture	FSSAI Lab Manual for Cereals and Cereal Products,2016,2.0	1 % to 25 %
		Acid insoluble ash	IS 1155:1968(RA 2015)	0.01 % to 10 %
		Alcoholic Acidity	FSSAI Lab Manual for Cereals and Cereal Products,2016,8.5	0.01 % to 10 %
		Total protein	FSSAI Lab Manual for Cereals and Cereal Products,2016,8.7	1 % to 30 %
		Gluten(on dry weight basis)	FSSAI Lab Manual for Cereals and Cereal Products,2016,8.4	1% to 30 %
		Total Ash	FSSAI Lab Manual for Cereals and Cereal Products,2016,8.2	0.1 % to 10 %

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 10 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude fibre	FSSAI Lab Manual for Cereals and Cereal Products,2016,8.8	0.01 % to 50 %
		Foreign matter	FSSAI Lab Manual for Cereals and Cereal Products,2016,1.2	0.1 % to 25%
		Extraneous matter (Refractions Other than Foreign Matter)	FSSAI Lab Manual for Cereals and Cereal Products,2016,1.4	0.1 % to 25 %
3.	Edible oil, Edible fat(Coconut oil, sesame oil, olive oil, sunflower oil, mustard oil, palm oil, olive oil, palmolein, groundnut oil, gingely oil, fish oil, rice bran oil, ghee)	Saponification value	IS 548 Part 1:1964 (RA 2015)	10 to 350
		Acid value	FSSAI Lab Manual for oil and fat,2016,11.0, IS 548 Part 1:1964 (RA 2015)	0.25 mg KOH/g to 10.0 mg KOH/g
		Moisture and volatile matter	FSSAI Lab Manual for oil and fat,2016,3.0, IS 548 Part 1:1964 (RA 2015)	0.1 % to 4 %
		Free fatty acids as oleic acid	FSSAI Lab Manual for oil and fat, 2016,11.8, IS 548 Part 1:1964 (RA 2015)	0.05 % to 95%
		Peroxide value	FSSAI Lab Manual for oil and fat,2016,38.1, IS 548 Part 1:1964 (RA 2015)	0.1meq/kg to 25meq/kg
		Test for Sesame Oil (Baudouins Test)	FSSAI Lab Manual for oil and fat, 2016,15.0	Present/Absent
		Test for mineral oil	IS 548 Part 2:1976 (RA 2015)	Present/Absent

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 11 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iodine Value	FSSAI Lab Manual for oil and fat, 2016,12.0	1 to 500
4.	Fish and Fish products	Moisture (Dry fish)	IS 5960(Part 5):2001, (RA 2013) IS 14950:2001, (RA 2013)	1 % to 25 %
		Total fat	IS 5960(Part 3):2016, FSSAI Manual for meat and fish products 2016, 2.1	0.1 % to 25 %
		Total Ash (Dry fish)	IS 5960(Part2):2000, (RA 2013)	0.1 % to 25 %
		Ash insoluble in dilute HCl	FSSAI Manual for meat and fish products 2016, 2.4	0.1 % to 10 %
		Protein	FSSAI Manual for meat and fish products 2016, 2.2	1 % to 40 %
		Sodium Chloride (Dry fish)	FSSAI Manual for meat and fish products 2016, 2.4	0.1 % to 25 %
5.	Fruits and Vegetables and their products (Sauces, ketchup, puree, soup, pulp, paste, drinks, jam, jelly, sharbats, squashes, syrups, juices, nectars, beverages, curries, nuts, pickles, ready to eat fruits & vegetables, processed and canned fruits & vegetables)	Acidity (as citric acid, oleic acid,	FSSAI Lab Manual for Fruits and Vegetable products,2016,2.4	0.1 % to 15 %
		Lactic acid, acetic acid, tartaric acid		
		Salt	FSSAI Lab Manual for Fruits and Vegetable products,2016,1.7	1 % to 20 %
		Benzoic acid	FSSAI Lab Manual for Food additives,2016,2.1.2	10 mg/kg to 1000 mg/kg
		Moisture content	FSSAI Lab Manual for Fruits and Vegetable products,2016,4.1	1 % to 95 %

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 12 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Container fill	FSSAI Lab Manual for Fruits and Vegetable products,2016,1.3	10 % to 99%
		Total soluble solids	FSSAI Lab Manual for Fruits and Vegetable products,2016,2.2	0.1% to 50 %
		pH	FSSAI Lab Manual for Fruits and Vegetable products,2016, 2.3	1 to14
		Fruit content (Orange Juice)	FSSAI Lab Manual for Fruits and Vegetable products,2016, 2.11	1% to 90%
		Total ash	FSSAI Lab Manual for Fruits and Vegetable products,2016,5.3	0.05 % to 40 %
		Ash insoluble in HCl	FSSAI Lab Manual for Fruits and Vegetable products,2016,5.3	0.01 % to 25 %
6.	Herbs, Spices & condiments (Chilli, pepper, turmeric, mustard, coriander, cumin, fennel, nutmeg, cardamom, curry powders, mace, cinnamon, clove, ginger,ajowan, mixed masala)	Moisture	IS 1797:2017	1 % to 25 %
		Total Ash	IS 1797:2017	1 % to 25 %
		Crude fibre	IS 1797:2017	1 % to 40 %
		Extraneous matter	FSSAI Lab Manual for Spices and Condiments, 2016, 2.0	0.01 % to 50%
		Alcohol soluble extract	FSSAI Lab Manual for Spices and Condiments, 2016, 7.0	1 % to 50 %
		Total nitrogen/protein	IS 7219-1973 (RA 2015)	0.1 % to 50 %
		Cold water-soluble extract	FSSAI Lab Manual for Spices and Condiments, 2016, 6.0	1% to 80 %

Laboratory Enviroidesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 13 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nonvolatile ether extract	FSSAI Lab Manual for Spices and Condiments, 2016, 9.0	0.1 % to 50 %
		Volatile oil content	FSSAI Lab Manual for Spices and Condiments, 2016, 10.0	0.1 % to 50 %
		Ash insoluble in dil. HCl	FSSAI Lab Manual for Spices and Condiments, 2016, 5.0	0.1 % to 20 %
7.	Honey	Specific gravity	FSSAI Lab Manual for Sugar and Sugar products, 2015, 6.3	0.5 to 5
		Moisture	FSSAI Lab Manual for Sugar and Sugar products, 2015, 6.2	13 % to 25 %
		Ash	FSSAI Lab Manual for Sugar and Sugar products, 2015, 6.7	0.05 % to 50 %
		Acidity	FSSAI Lab Manual for Sugar and Sugar products, 2015, 6.8	0.05 % to 50 %
8.	Milk and dairy products (Milk, Cream, Milk powder, curd, Ice cream, evaporated/ condensed milk, Processed milk, Dairy based dessert/ confections, paneer, yoghurt,	Protein	IS 7219-1973, (RA 2015), FSSAI Lab Manual for milk, 2016, 10.6	1 % to 50 %
		Total ash	FSSAI Lab Manual for milk, 2016, 10.7	0.1 % to 25 %
		Ash insoluble in HCl	FSSAI Lab Manual for milk, 2016, 10.8	0.01 % to 5 %
		Titrate acidity as Lactic acid	FSSAI Lab Manual for milk, 2016, 10.4	0.01 % to 25 %
		Fat	FSSAI Lab Manual for milk, 2016, 1.3.4.2	0.1 % to 70 %

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 14 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	butter, cheese, infant milk food, dried ice cream mix)	Total solids	FSSAI Lab Manual for milk, 2016, 1.3.3	0.1 % to 50 %
		Milk Solids not fat	FSSAI Lab Manual for milk, 2016, 1.3.3	0.1 % to 50 %
		Moisture	FSSAI Lab Manual for milk, 2016, 10.2	0.1 % to 100 %
		Solubility %	FSSAI Lab Manual for milk, 2016, 10.11	0.05 % to 100 %
		Solubility index	FSSAI Lab Manual for milk, 2016, 10.10	0.1 ml to 3 ml
		Wt/Vol (ice cream)	FSSAI Lab Manual for milk, 2016, 7.3	1 g/l to 5000 g/l
		Percentage of overrun (ice cream)	FSSAI Lab Manual for milk, 2016, 7.3	100 % to 800%
		Sucrose	FSSAI Lab Manual for milk, 2016, 9.4	0.1 % to 95%
		Adulterants (Boric acid, Detergent, Hydrogen peroxide, urea, starch, neutralizer, M Q1, MQ2)	FSSAI Lab Manual for milk, 2016	Qualitative
9.	Meat and Meat products	Total Fat	IS 5960(Part 3) 2016, FSSAI Manual for meat and fish products 2016, 2.1	1 % to 35 %
		Total Protein	FSSAI Manual for meat and fish products 2016, 2.2	1 % to 35 %
		pH	FSSAI Manual for meat and fish products 2016, 3.1	2 to 9
10.	Vinegar	Acidity as acetic acid	FSSAI Lab Manual for Fruits and Vegetable products, 2016, 14.5	0.1 % to 15 %

Laboratory Enviroidesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 15 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total solids	FSSAI Lab Manual for Fruits and Vegetable products, 2016, 14.3	1 % to 20 %
		Total ash	FSSAI Lab Manual for Fruits and Vegetable products, 2016, 14.4	0.1 % to 20 %
		Mineral Acid	FSSAI Lab Manual for Fruits and Vegetable products, 2016, 14.6	Present/Absent
II.	RESIDUE IN FOOD PRODUCTS			
1.	Metals in Food products (Spices & condiments)	Copper as Cu	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Lead as Pb	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Zinc as Zn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Cadmium as Cd	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Chromium as Cr	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Nickel as Ni	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Iron as Fe	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 16 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic as As	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Tin as Sn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
2.	Metals in Food products (Fruits and Vegetables and their products)	Copper as Cu	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Lead as Pb	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Zinc as Zn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Cadmium as Cd	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Chromium as Cr	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Nickel as Ni	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Iron as Fe	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Arsenic as As	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Tin as Sn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 17 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Metals in Food products (Cereals and Cereal Products)	Copper as Cu	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Lead as Pb	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Zinc as Zn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Cadmium as Cd	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Chromium as Cr	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Nickel as Ni	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.1mg/kg to 50 mg/kg
		Iron as Fe	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
		Arsenic as As	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	0.05mg/kg to 50 mg/kg
		Tin as Sn	FSSAI Manual of methods of analysis of Foods-Metals, 2016, 3.1	1mg/kg to 50 mg/kg
4.	Pesticide Residues in Food products (Spices & condiments)	p,p DDT	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		p,p DDE	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 18 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		p,p DDD	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan α	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan β	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan Sulphate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma HCH (Lindane)	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Alpha HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Beta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Delta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Aldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Dieldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Heptachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 19 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alpha chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Monocrotophos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Ethion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Chlorpyrifos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Phorate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Butachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Alachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Atrazine	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Methyl parathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Malathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 20 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Pesticide Residues in Food products (Fruits and Vegetables and their products)	p,p DDT	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		p,p DDE	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		p,p DDD	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan α	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan β	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan Sulphate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma HCH (Lindane)	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Alpha HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Beta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Delta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Aldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 21 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dieldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Heptachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Alpha chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Monocrotophos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Ethion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Chlorpyrifos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Phorate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Butachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Alachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Atrazine	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg

Laboratory Enviroidesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom,
Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 22 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl parathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Malathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
6.	Pesticide Residues in Food products (Cereals and Cereal Products)	p,p DDT	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		p,p DDE	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		p,p DDD	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan α	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan β	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Endosulfan Sulphate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma HCH (Lindane)	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Alpha HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Beta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 23 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Delta HCH	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Aldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Dieldrin	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Heptachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Alpha chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Gamma chlordane	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 7.0	0.01mg/kg to 1000 mg/kg
		Monocrotophos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Ethion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Chlorpyrifos	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Phorate	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Butachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg

Ashok Kumar
Convenor

Pankaj Johri
Program Manager

Laboratory **Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala**

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

Certificate Number **TC-7114**

Page 24 of 34

Validity **23.12.2018 to 22.12.2020**

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alachlor	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Atrazine	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Methyl parathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
		Malathion	FSSAI Manual of methods of analysis of Foods-Pesticide Residues, 2015, 8.0	0.01mg/kg to 1000 mg/kg
III.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents/Sewage), Treated waste water	Colour	Cl. 2 of IS 3025 (Part 4)-1983,(RA 2017) (Visual method)	1 Hazen Unit to 500Hazen Unit
		Odour	IS 3025 (Part 5)-1983, Reaff. 2012	Agreeable/Disagreeable
		pH	Cl. 2 of IS 3025 (Part 11)-1983,(RA 2017)	1 to 14
		Phenolic Compounds as C ₆ H ₅ OH	Cl. 6 of IS 3025 (Part 43)-1992, (RA 2014)	0.0005mg/l to 5.0 mg/l
		Nitrate as NO ₃	Cl. 3 of IS 3025(Part 34)-1988,(RA 2014)	0.1mg/l to 100 mg/l
		Chloride as Cl	Cl. 2 of IS 3025(Part 32)-1988,(RA 2014)	0.5mg/l to 1000 mg/l
		Fluoride as F	Cl. 5 of IS 3025 (Part 60)-2008, (RA 2013)	0.2mg/l to 5 mg/l
		Sulphate as SO ₄	Cl. 4 of IS 3025(Part 24)-1986,(RA 2014)	1.0 mg/l to 500 mg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 25 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cyanide as CN	Cl. 2 of IS 3025 (Part 27)-1986, (RA 2014)	0.005mg/l to 2 mg/l
		Residual Chlorine	IS 3025 (Part 26)-1986, (RA 2014)	0.1mg/l to 10.0 mg/l
		Total Dissolved Solids	IS 3025(Part 16)-1984, (RA 2017)	2mg/l to 10000 mg/l
		Nitrite as NO ₂	Cl. 4 of IS 3025 (Part 34)-1988, (RA 2014)	0.01mg/l to 50.0 mg/l
		Sodium as Na	Cl. 5 of IS 3025 (Part 45)-1993, (RA 2014)	1mg/l to 500 mg/l
		Biochemical Oxygen Demand @ 27°C for 3 days	IS 3025 (Part 44)-1993, (RA 2014)	1mg/l to 5000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58)-2006, (RA 2017)	4mg/l to 20000 mg/l
		Oil & Grease	Cl. 5 of IS 3025 (Part 39)-1991, (RA 2014)	0.05mg/l to 200 mg/l
		Total Suspended Solids	IS 3025 (Part 17)-1984, (RA 2017)	2mg/l to 1000 mg/l
		Hexavalent chromium as Cr ⁶⁺	Cl. 6 of IS 3025 (Part 52)-2003, (RA 2014)	0.03mg/l to 10.0 mg/l
		Oxygen absorbed in 4 hours at 27°C	IS 3025 (Part 63)-2007, (RA 2013)	0.5mg/l to 10.0 mg/l
		Anionic detergents (as MBAS)	IS 13428-2005 Annex-K, (RA 2014)	0.1mg/l to 1.0 mg/l
		Total Kjeldhal Nitrogen as N	Cl. 5.2 of IS 3025 (Part 34)-1988, (RA 2014)	1mg/l to 500 mg/l
		Ammonia (as total ammonia-N)	Cl. 2.3 of IS 3025 (Part 34)-1988, (RA 2014)	0.1mg/l to 500 mg/l
		Phosphorus as P	Cl. 4 of IS 3025 (Part 31)-1988, (RA 2014)	0.05mg/l to 100 mg/l
		Benzo(a) pyrene	USEPA 8270 C-1996	0.1 µg/l to 100 µg/l
		Benzene	USEPA 8260 B-1996	10 µg/l to 500 µg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 26 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silica as SiO ₂	Cl. 3 of IS 3025 (Part 35)-1988, (RA 2014)	0.4 mg/l to 500 mg/l
		Conductivity	IS 3025 (Part 14)-2013	1 µS/cm to 200 mS/cm
		Dissolved oxygen	Cl. 4.1 & 4.2 of IS 3025 (Part 38)-1989, (RA 2014)	1 mg/l to 10 mg/l
		Sulphide as S	Cl. 3 of IS 3025 (Part 29)-1986, (RA 2014)	0.02mg/l to 20 mg/l
		Total Solids	IS 3025 (Part 15)-1984, (RA 2014)	2mg/l to 10000 mg/l
		Aluminium as Al	Cl. 5 of IS 3025 (Part 55)-2003, (RA 2014)	0.02mg/l to 5.0mg/l
		Iron as Fe	Cl. 6 of IS 3025 (Part 53)-2003, (RA 2014)	0.02mg/l to 10.0 mg/l
		Magnesium as Mg	Cl. 6 of IS 3025(Part 46)-1994, (RA 2014)	0.5mg/l to 200 mg/l
		Calcium as Ca	Cl. 5 of IS 3025(Part 40)-1991, (RA 2014)	0.5mg/l to 500 mg/l
		Trace metal elements		
		Selenium as Se	Cl. 7 of IS 3025(Part 56)-2003, (RA 2014)	0.005mg/l to 5.0 mg/l
		Nickel as Ni	IS 3025 (Part 2)-2004, (RA 2014)	0.01mg/l to 5.0 mg/l
		Silver as Ag	IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 5.0 mg/l
		Manganese as Mn	IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 5.0 mg/l
		Copper as Cu	Cl. 6 of IS 3025(Part 42)-1992, (RA 2014) IS 3025 (Part 2)-2004, (RA 2014)	0.01mg/l to 10.0 mg/l
		Zinc as Zn	Cl. 5 of IS 3025 (Part 49)-1994, (RA 2014) IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 50 mg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 27 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium as Cd	IS 3025 (Part 2)-2004, (RA 2014)	0.001mg/l to 5.0 mg/l
		Vanadium as V	IS 3025 (Part 2)-2004, (RA 2014)	0.02mg/l to 1 mg/l
		Mercury as Hg	Cl. 5 of IS 3025 (Part 48)-1994, (RA 2014)	0.0005mg/l to 5.0 mg/l
		Lead as Pb	IS 3025 (Part 2)-2004, (RA 2014)	0.005mg/l to 5.0 mg/l
		Total Chromium as Cr	IS 3025 (Part 2)-2004, (RA 2014)	0.01mg/l to 5.0 mg/l
		Arsenic as As	Cl. 2 of IS 3025(Part 37)-1988, (RA 2014)	0.005mg/l to 5.0 mg/l
3.	Soil/Sediments	Copper	USEPA 3050B-1996 & 7000A-1992	5mg/kg to 1000 mg/kg
		Lead		
		Zinc		
		Cadmium		
		Chromium		
		Manganese		
		Nickel		
		Iron		
4.	Wastes (Liquid/ Slurry/Sludge/ Solid/Semi-Solid)	Copper	USEPA 3050B-1996 & 7000A-1992	5 mg/kg to 1000 mg/kg
		Lead		
		Zinc		
		Cadmium		
		Chromium		
		Manganese		
		Nickel		
		Iron		

Laboratory **Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala**

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

Certificate Number **TC-7114**

Page 28 of 34

Validity **23.12.2018 to 22.12.2020**

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
IV.	WATER			
1.	Surface Water, Ground Water, Drinking Water, Well water, Packaged drinking water, Natural mineral water, Construction Water, Swimming Pool Water, Water for Processed Food Industry, Raw/treated water, Water for Ice	Colour	Cl. 2 of IS 3025 (Part 4)-1983,(RA 2017) (Visual method)	1 Hazen Unit to 500Hazen Unit
		Odour	IS 3025 (Part 5)-1983, Reaff. 2012	Agreeable/Disagreeable
		Taste	IS 3025 (Part 8)-1984, (RA 2017)	Agreeable/Disagreeable
		pH	Cl. 2 of IS 3025 (Part 11)-1983, (RA 2017)	1 to 14
		Turbidity	IS 3025 (Part 10)-1984, (RA 2017)	0.5 NTU to 500 NTU
		Phenolic Compounds as C ₆ H ₅ OH	Cl. 6 of IS 3025 (Part 43)-1992, (RA 2014)	0.0005mg/l to 5.0 mg/l
		Nitrate as NO ₃	Cl. 3 of IS 3025(Part 34)-1988,(RA 2014)	0.1mg/l to 100 mg/l
		Chloride as Cl	Cl. 2 of IS 3025(Part 32)-1988,(RA 2014)	0.5mg/l to 2000 mg/l
		Fluoride as F	Cl. 5 of IS 3025 (Part 60)-2008, (RA 2013)	0.2mg/l to 5.0 mg/l
		Sulphate as SO ₄	Cl. 4 of IS 3025(Part 24)-1986,(RA 2014)	1.0mg/l to 500 mg/l
		Cyanide as CN	Cl. 2 of IS 3025 (Part 27)-1986, (RA 2014)	0.005mg/l to 2.0 mg/l
		Biochemical Oxygen Demand @ 27°C for 3 days	IS 3025 (Part 44)-1993, (RA 2014)	1mg/l to 500 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58)-2006, (RA 2017)	4mg/l to 1000 mg/l
		Oil & Grease	Cl. 5 of IS 3025 (Part 39)-1991, (RA 2014)	0.05mg/l to 100 mg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 29 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total Kjeldahl Nitrogen as N	Cl. 5.2 of IS 3025 (Part 34)-1988, (RA 2014)	1mg/l to 100 mg/l
		Ammonia (as total ammonia-N)	Cl. 2.3 of IS 3025 (Part 34)-1988, (RA 2014)	0.1mg/l to 100 mg/l
		Phosphorus as P	Cl. 4 of IS 3025 (Part 31)-1988, (RA 2014)	0.05mg/l to 50 mg/l
		Residual Chlorine	IS 3025 (Part 26)-1986, (RA 2014)	0.1mg/l to 10.0 mg/l
		Total Dissolved Solids	IS 3025(Part 16)-1984, (RA 2017)	2mg/l to 10000 mg/l
		Silica as SiO ₂	Cl. 3 of IS 3025 (Part 35)-1988, (RA 2014)	0.4mg/l to 100 mg/l
		Conductivity	IS 3025 (Part 14)-2013	1 µS/cm to 200 mS/cm
		Dissolved oxygen	Cl. 4.1 & 4.2 of IS 3025 (Part 38)-1989, (RA 2014)	1mg/l to 10 mg/l
		Aluminium as Al	Cl. 5 of IS 3025 (Part 55)-2003, (RA 2014)	0.02mg/l to 5.0mg/l
		Iron as Fe	Cl. 6 of IS 3025 (Part 53)-2003, (RA 2014)	0.02mg/l to 10.0mg/l
		Magnesium as Mg	Cl. 6 of IS 3025(Part 46)-1994, (RA 2014)	0.5mg/l to 200 mg/l
		Calcium as Ca	Cl. 5 of IS 3025(Part 40)-1991, (RA 2014)	0.5mg/l to 500 mg/l
		Total Solids/Residue on evaporation	IS 3025 (Part 15)-1984, (RA 2014)	2mg/l to 10000 mg/l
		Total Hardness as CaCO ₃	Cl. 5 of IS 3025 (Part 21)-2009, (RA 2014)	2mg/l to 500 mg/l as CaCO ₃
		Hexavalent chromium as Cr ⁶⁺	Cl. 6 of IS 3025 (Part 52)-2003, (RA 2014)	0.03mg/l to 10.0 mg/l
		Mineral oil	Cl. 6 of IS 3025(Part 39)-1991, (RA 2014)	0.05mg/l to 10.0mg/l
		Anionic detergents (as MBAS)	IS 13428-2005 Annex-K, (RA 2014)	0.1mg/l to 1.0 mg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 30 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acidity as CaCO ₃	Cl. 8.1 of IS 3025 (Part 22)-1986, (RA 2014)	1mg/l to 200 mg/l
		Benzo(a) pyrene	USEPA 8270 C-1996	0.1µg/l to 10 µg/l
		Benzene	USEPA 8260 B-1996	10µg/l to 100 µg/l
		Oxygen absorbed in 4 hours at 27°C	IS 3025 (Part 63)-2007, (RA 2013)	0.5mg/l to 10.0 mg/l
		Heavy metals (as Pb)	Cl. 7 of IS 3025(Part 47)-1994, (RA 2014)	0.05mg/l to 5.0 mg/l
		Chloramines as Cl ₂	IS 3025 (Part 26)-1986, (RA 2014)	0.1mg/l to 100 mg/l
		Bromoform	ASTM D 3973-85, (RA 2003)	0.05mg/l to 10 mg/l
		Dibromochloromethane	ASTM D 3973-85, (RA 2003)	0.05mg/l to 10 mg/l
		Bromodichloromethane	ASTM D 3973-85, (RA 2003)	0.05mg/l to 10 mg/l
		Chloroform	ASTM D 3973-85, (RA 2003)	0.05mg/l to 10 mg/l
		Inorganic Solids	IS 3025 (Part 18)-1984, (RA 2017)	5mg/l to 10000 mg/l
		Organic Solids	IS 3025 (Part 18)-1984, (RA 2017)	5mg/l to 1000 mg/l
		Total Suspended Solids	IS 3025 (Part 17)-1984, (RA 2017)	2mg/l to 1000 mg/l
		Sulphide as S	Cl. 3 of IS 3025 (Part 29)-1986, (RA 2014)	0.02mg/l to 10 mg/l
		Temperature	USEPA 170.1	1°C to 100 °C
		Salinity	USEPA 842-B-06-003	1mg/l to 10000 mg/l
		Silt density index	ASTM D 4189-95, (RA 2002)	1 to 50
		Free/Dissolved Carbon Dioxide	IS 3025 (Pt 61) 2008	2mg/l to 1000 mg/l

Laboratory **Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala**

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

Certificate Number **TC-7114**

Page 31 of 34

Validity **23.12.2018 to 22.12.2020**

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total Organic Carbon	USEPA NCEA-C-1282	0.5mg/l to 1000 mg/l
		Alkalinity as CaCO ₃	Cl. 8.1 of IS 3025(Part 23)-1986, (RA 2014)	1mg/l to 500 mg/l
		Nitrite as NO ₂	Cl. 4 of IS 3025 (Part 34)-1988, (RA 2014)	0.01mg/l to 10 mg/l
		Sodium as Na	Cl. 5 of IS 3025 (Part 45)-1993, (RA 2014)	1mg/l to 500 mg/l
V.	RESIDUE IN WATER			
1.	Surface Water, Ground Water, Well water, Drinking Water, Packaged drinking water, Raw/treated water	Poly nuclear Aromatic Hydrocarbons		
		2-Methylnaphthalene	USEPA 8270-1996	0.1µg/l to 1000 µg/l
		Acenaphthylene		0.1µg/l to 1000 µg/l
		Acenaphthene		0.1µg/l to 1000 µg/l
		Fluorene		0.1µg/l to 1000 µg/l
		Anthracene		0.1µg/l to 1000 µg/l
		Pyrene		0.1µg/l to 1000 µg/l
		Benzo(a)anthracene		0.1µg/l to 1000 µg/l
		Chrysene		0.1µg/l to 1000 µg/l
		Benzo(k)fluranthene		0.1µg/l to 1000 µg/l
		Benzo(b)fluranthene		0.1µg/l to 1000 µg/l
		Benzo(a)pyrene		0.1µg/l to 1000 µg/l
		Poly chlorinated biphenyls (PCBs)		
		2,2',5-Trichlorobiphenyl	USEPA 8082-1996 (8270-1996)	0.1 µg/l to 1000 µg/l
		2,4,4'-Trichlorobiphenyl		0.1 µg/l to 1000 µg/l
		2,4',5-Trichlorobiphenyl		0.1µg/l to 1000 µg/l
		2,2',5,5'-Tetrachlorobiphenyl		0.1µg/l to 1000 µg/l
		2,3',4,4',5'-Pentachlorobiphenyl		0.1µg/l to 1000 µg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 32 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		2,2',3,4',5',6-Hexachlorobiphen		0.1µg/l to 1000 µg/l
		Pesticide Residues		
		o,p DDT	USEPA 508-1995 (8270-1996)	0.01 µg/l to 1000 µg/l
		o,p DDE		0.01 µg/l to 1000 µg/l
		o,p DDD		0.01µg/l to 1000 µg/l
		p,p DDT		0.01µg/l to 1000 µg/l
		p,p DDE		0.01µg/l to 1000 µg/l
		p,p DDD		0.01µg/l to 1000 µg/l
		Gamma HCH (Lindane)		0.01µg/l to 1000 µg/l
		Alpha HCH		0.01µg/l to 1000 µg/l
		BetaHCH	USEPA 508-1995 (8270-1996)	0.01 µg/l to 1000 µg/l
		Delta HCH		0.01 µg/l to 1000 µg/l
		Endosulfan Alpha		0.01µg/l to 1000 µg/l
		EndosulfanBeta		0.01µg/l to 1000 µg/l
		Endosulfan Sulphate		0.01µg/l to 1000 µg/l
		Aldrin		0.01µg/l to 1000 µg/l
		Dieldrin		0.01µg/l to 1000 µg/l
		2,4-Dichlorophenoxyacetic acid	USEPA515.1 (8321B)	1µg/l to 1000 µg/l
		Isoproturon	USEPA 532	1µg/l to 1000 µg/l
		Monocrotophos	USEPA8141A (8270)	0.1µg/l to 1000 µg/l
		Ethion	USEPA1657A (8270)	0.1µg/l to 1000 µg/l
		Phorate	USEPA8141A (8270)	0.1µg/l to 1000 µg/l
		Chlorpyrifos	USEPA 525.2,8141A (8270)	0.1µg/l to 1000 µg/l
		Butachlor	USEPA525.2,8141A (8270)	0.1µg/l to 1000 µg/l
		Alachlor	USEPA 525.2, ,8141A (8270)	0.1µg/l to 1000 µg/l
		Atrazine	USEPA 525.2, ,8141A (8270)	0.1µg/l to 1000 µg/l

Laboratory Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7114

Page 33 of 34

Validity 23.12.2018 to 22.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl parathion	USEPA 8141A (8270)	0.1µg/l to 1000 µg/l
		Malathion	USEPA 8141A (8270)	0.1µg/l to 1000 µg/l
2.	Surface Water, Ground Water, Well water, Drinking Water, Packaged drinking water, Swimming Pool Water, Water for Processed Food Industry, Raw/treated water, Water for Ice	Trace metal elements		
		Copper as Cu	Cl. 6 of IS 3025(Part 42)-1992, (RA 2014) IS 3025 (Part 2)-2004, (RA 2014)	0.01 mg/l to 10.0 mg/l
		Zinc as Zn	Cl. 5 of IS 3025 (Part 49)-1994, (RA 2014) IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 50 mg/l
		Cadmium as Cd	IS 3025 (Part 2)-2004, (RA 2014)	0.001mg/l to 5.0 mg/l
		Mercury as Hg	Cl. 5 of IS 3025 (Part 48)-1994, (RA 2014)	0.0005mg/l to 5.0 mg/l
		Lead as Pb	IS 3025 (Part 2)-2004, (RA 2014)	0.008mg/l to 5.0 mg/l
		Total Chromium as Cr	IS 3025 (Part 2)-2004, (RA 2014)	0.01mg/l to 5.0 mg/l
		Arsenic as As	Cl. 2 of IS 3025(Part 37)-1988, (RA 2014)	0.005mg/l to 5.0 mg/l
		Selenium as Se	Cl. 7 of IS 3025(Part 56)-2003, (RA 2014)	0.005mg/l to 5.0 mg/l
		Nickel as Ni	IS 3025 (Part 2)-2004, (RA 2014)	0.01mg/l to 5.0 mg/l
		Silver as Ag	IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 5.0 mg/l
		Boron as B	IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 5.0mg/l
		Barium as Ba	IS 3025 (Part 2)-2004, (RA 2014)	0.02mg/l to 5.0mg/l
		Vanadium as V	IS 3025 (Part 2)-2004, (RA 2014)	0.02mg/l to 1 mg/l

Laboratory **Envirodesigns Eco Labs, Eco Tower, Janatha Jn., Palarivattom, Kochi, Kerala**

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

Certificate Number **TC-7114**

Page 34 of 34

Validity **23.12.2018 to 22.12.2020**

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Manganese as Mn	IS 3025 (Part 2)-2004, (RA 2014)	0.05mg/l to 5.0 mg/l
		Molybdenum as Mo	IS 3025 (Part 2)-2004, (RA 2014)	0.005mg/l to 5.0 mg/l

Ashok Kumar
Convenor

Pankaj Johri
Program Manager