



Valid from 23 May 2023
to 22 May 2026
Issued on 23 October 2024

As an accredited laboratory, this laboratory is entitled to
use the following accreditation symbol.



ISO/ IEC 17025
TL 004- 05

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment
Accreditation Number: TL 004-05

Residue Analysis Laboratory Industrial Technology Institute

No.120/A, Vidya Mawatha
Colombo 07

Scope of Accreditation: Performing residue analysis and trace metal analysis in product categories of Water, Waste water, Food & agricultural products, Fertilizer and Cosmetics as per the test methods appearing in this Schedule.

The laboratory is accredited for the following tests as per given in the page 02 of 07 to page 07 of 07.

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
1.1	Water	Silver (Ag)	RAL/MM/02/01/004	1 – 200 µg/ L
		Aluminium (Al)		10 – 200 µg/ L
		Arsenic (As)		1 – 200 µg/ L
		Barium (Ba)		1 – 200 µg/ L
		Beryllium (Be)		1 – 200 µg/ L
		Cadmium (Cd)		1 – 200 µg/ L
		Copper (Cu)		10 – 200 µg/ L
		Cobalt (Co)		1 – 200 µg/ L
		Chromium (Cr)		10 – 200 µg/ L
		Iron (Fe)		10 – 200 µg/ L
		Potassium (K)		0.5 -10.0 mg/ L
		Manganese (Mn)		1 – 200 µg/ L
		Sodium (Na)		0.5 -10.0 mg/ L
		Nickel (Ni)		1 – 200 µg/ L
		Lead (Pb)		1 – 200 µg/ L
		Selenium (Se)		1 – 200 µg/ L
		Thallium (Tl)		1 – 200 µg/ L
		Uranium (U)		1 – 200 µg/ L
		Vanadium (V)		1 – 200 µg/ L
		Zinc (Zn)		10 – 200 µg/ L
		Mercury (Hg)		1 – 25 µg/ L
		Gold (Au)		1 – 200 µg/ L
		Palladium (Pd)		1 – 200 µg/ L
		Platinum (Pt)		1 – 200 µg/ L
		Antimony (Sb)		1 – 200 µg/ L
		Boron (B)		10 – 200 µg/ L
		Molybdenum (Mo)		1 – 200 µg/ L
		Titanium (Ti)		1 – 200 µg/ L
1.2	Wastewater	Arsenic (As)	RAL/MM/02/01/005	1–200 µg/L
		Cadmium (Cd)		1–200 µg/L
		Chromium (Cr)		10 -250 µg/L
		Copper (Cu)		10 -250 µg/L
		Iron (Fe)		0.10 - 8.0 mg/L
		Lead (Pb)		10 -250 µg/L
		Mercury (Hg)		0.5 – 25 µg/L
		Nickel (Ni)		10 -250 µg/L
		Selenium (Se)		1 – 200 µg/L
		Zinc (Zn)		0.02 -2.00 mg/L
		Boron (B)		0.5 – 5.0 mg/L
		Vanadium (V)		1 – 200 µg/L
		Cobalt (Co)		1 – 200 µg/L
		Uranium (U)		1- 200 µg/L

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
1.3	Cereal & Cereal based products	Arsenic (As)	RAL/MM/02/02/003	0.05 – 10 mg/kg
		Cadmium (Cd)		0.05 -1.25 mg /kg
		Mercury (Hg)		0.08 – 10 mg /kg
		Lead (Pb)		
1.4	Fruit juices ,quashes , cordials ,Fruit drinks	Arsenic (As)	RAL/MM/02/02/002	0.05 – 10 mg/L
		Cadmium (Cd)		
		Lead (Pb)		
		Tin (Sn)		
		Mercury (Hg)		0.05 – 1.25 mg/L
1.5	Inorganic Fertilizer	Chromium (Cr)	RAL/MM/02/03/001	0.1 – 25 mg/kg
		Cobalt (Co)		
		Nickel (Ni)		
		Copper (Cu)		
		Lead (Pb)		
		Cadmium (Cd)		
		Arsenic (As)		
		Selenium (Se)		
		Mercury (Hg)		0.1 – 2.5 mg/kg
1.6	Solid Organic Fertilizers	Chromium (Cr)	RAL/MM/02/03/002	0.1 – 25 mg/kg
		Cobalt (Co)		
		Nickel (Ni)		
		Copper (Cu)		
		Lead (Pb)		
		Cadmium (Cd)		
		Arsenic (As)		
		Selenium (Se)		
		Mercury (Hg)		0.1 – 2.5 mg/kg
1.7	Liquid Organic Fertilizers	Chromium (Cr)	RAL/MM/02/03/002	0.1 – 25 mg/kg
		Cobalt (Co)		
		Nickel (Ni)		
		Copper (Cu)		
		Lead (Pb)		
		Cadmium (Cd)		
		Arsenic (As)		
		Selenium (Se)		
		Mercury (Hg)		0.1 – 2.5 mg/kg
1.8	Skin Creams & Lotions	Arsenic (As)	RAL/MM/02/04/001	0.05 – 10 mg/kg
		Cadmium (Cd)		
		Lead (Pb)		
		Mercury (Hg)		0.05 -1.25 mg/kg
1.9	Toothpaste	Arsenic (As)	RAL/MM/02/04/001	0.05 – 10 mg/kg
		Cadmium (Cd)		
		Antimony (Sb)		
		Lead (Pb)		
		Mercury (Hg)		0.05 -1.25 mg/kg

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
Organic Residue Analysis Unit				
2.1	Water (Drinking Water, source water), Wastewater (Raw water, Treated water)	α HCH β HCH γ HCH δ HCH Aldrin Dieldrin Endosulfan sulphate Endosulfan I Endosulfan II Endrin Endrin aldehyde HCB Heptachlor Heptachloroepoxide O,P' DDD P,P' DDD P,P' DDE P, P' DDT Triflurin	RML/MM/01/01/001	0.08 µg/L - 0.4 µg/L
2.2	Water (Drinking Water, source water, raw water)	AMPA Bispyribac Sodium BPMC Captan Carbofuran Diazinon Dimethoate Diuron Fenamiphos Fipronil Flutolanil Glufosinate Ammonium Glyphosate Hexaconazole Imidacloprid Isoprothiolane Methomyl Metribuzin Quinalfos Tebuconazole Thiamethoxam Trazophos Tricyclazole	RAL/MM/01/01/003	0.005 mg/L – 0.100 mg/L

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
	Water (Drinking Water, source water, raw water)	Fenitrothion Fenthion Malathion Phenthoate Pirimiphos methyl Profenofos	RAL/MM/01/01/003	0.010 mg/L – 0.100 mg/L
2.3	Water	α HCH β HCH γ HCH δ HCH Aldrin Dieldrin Endosulfan sulphate Endosulfan I Endosulfan II Endrin Endrin aldehyde HCB Heptachlor Heptachloroepoxide O,P' DDD P,P' DDE P,P' DDT Trifluralin	RAL/MM/01/01/002	0.01 µg/L - 0.24 µg/L
2.4	Fruits and Vegetables	Metribuzin Hexaconazole Tebuconazole BPMC Diazinon Thiamethoxam Carbofuran Fipronil Imidacloprid Quinalfos Dimethoate Captan Methomyl Tricyclazole Isoprothiolane Fenamiphos Flutolanil Triazophos Fenitrothion Chlorpyrifos Phenthoate Profenofos Fenoxaprop-p-ethyl Pirimiphos Methyl Fenthion Norvaluron	RAL/MM/01/05/002	0.005 mg/kg - 0.100 mg/kg

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
2.4	Fruits and Vegetables	Ethephon	RAL/MM/01/05/002	0.010 mg/kg - 2.000 mg/kg
2.5	Fish & canned fish (except dehydrated Items)	Histamine	RAL/MM/01/03/001	10.0 - 200 mg/kg
2.6	Food of Animal Origin	Chloramphenicol	RAL/MM/01/07/001	0.0002 mg/kg – 5.0 mg/kg
		Sulfadimethoxine Sulfamerazine Sulfathiazole sulfachloropyridazine sulfadiazine sulfamethoxypridazine Sulfamothaxazole sulfamethazine	RAL/MM/01/07/002	1.0 µg/kg-50.0 µg/kg
2.7	Spices	Bispyribac sodium Carbofuran Chlorpyrifos Diazinon Dimethoate Diuron Fenamiphos Fenoxaprop-p-ethyl Fenthion Fipronil Flutolanil Flutriafol Hexaconazole Imidacloprid Indoxacarb Methomyl Metribuzin Norvaluron Pirimiphos Methyl Profenofos Pyraclostrobin Quinalfos Tebuconazole Thiacloprid Thimethoxam Triazophos Tricyclazole	RAL/MM/01/04/001	0.005 mg/kg-0.25 mg/kg

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
2.7	Spices	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	RAL/MM/01/08/001	1.6 µg/kg-200 µg/kg
2.8	Tea	Azoxystrobin Bitertanol Captan Carbofuran Diazinon Dimethoate Diuron Fenamiphos Fenitrothion Fenoxaprop-p-ethyl Fenthion Fipronil Flutolanil Flutriafol Hexaconazole Imidacloprid Indoxacarb Isoprothiolane Norvaluron Phenthoate Pirimiphos Methyl Profenofos Pyraclostrobin Quinalfos Tebuconazole Tebufenozide Thiacloprid Triazophos Tricyclazole	RAL/MM/01/02/001	0.005 mg/kg - 0.25 mg/kg
		MCPA	RAL/MM/01/02/002	0.005 mg/kg-0.25 mg/kg
		Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	RAL/MM/01/08/002	4.0 µg/kg-1600 µg/kg
2.9	Cereals	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	RAL/MM/01/08/003	0.8 µg/kg-200 µg/kg
2.10	Soil	AMPA Glyphosate	RAL/MM/01/09/001	0.1 mg/kg- 2.5 mg/kg