



INDUSTRIAL TECHNOLOGY INSTITUTE (ITI)

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ISO/IEC 17025
TL 004 - 02

TEST REPORT

Report No. SS 2505425

Report to:

Mr. K. V. L. R. Nishshanka

Public Health Inspector,

Watareka.

Issued by:

Chemical & Microbiological Laboratory

Industrial Technology Institute

2025/05/27

Page 01 of 04 pages

Handwritten signature and date
2025/05/27

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11/12/27



Continuation Sheet

Test Report
Report No. SS 2505425



ISO/IEC 17025
TL 004 - 02

Customer: Mr. K. V. L. R. Nishshanka Public Health Inspector, Watareka.	Test Item: WATER Service Requested: As per the customer's request on 2025/05/15
Description: Test item of water (Approximately 200 mL) contained in a sterilized bottle supplied by ITI. <u>Details given in the customer's request dated on 2025/05/15:</u> Vendor's name: Spring food (Pvt) Ltd	Identification of Test Item: Source : Directly pumped from Tube Well Date Collected : 2025/05/15 Time Collected : 11.00 a.m. Type of Treatment : N/A Other Information : N/A Bottle Number : WB 25-0388 Details of receipt of test item Test item was submitted by the customer on 2025/05/15 Time : 12.30 p.m. Temperature : 29.5 °C
Test Dates : 2025/05/15 – 2025/05/18	

TEST RESULT

Test/ unit	Method	Result	Range of Testing
Aerobic Plate Count, CFU/ mL at 22 °C for 72 hrs.	SLS 1461 Part 2 Section 1: 2014 ISO 6222: 1994 (E)	2.8×10^1	$1 - 10^6$
Aerobic Plate Count, CFU/ mL at 36 °C for 48 hrs.		1.2×10^1	$1 - 10^6$
Total Coliforms/ 100 mL (Confirmed MPN)	SLS 614: 2013 SLS 1461 Part 1 Section 3:2013	Not detected	0 - 1800
E.coli/ 100 mL (MPN)		Not detected	0 - 1800

Analysis was carried out by Ms. D. A. Indeevari – Assistant Research Technologist.

“Chemical and Microbiological Laboratory of Industrial Technology Institute is not responsible for the customer-provided information.”


Authorized Signatory

2025/05/27
/phj

Dr. (Ms.) Himashi Karunaratne
B.Sc. (Hons), M.Sc., Ph.D. (Microbiology)
Senior Research Scientist
Chemical & Microbiological Laboratory
Industrial Technology Institute - Colombo 07



Continuation Sheet

Test Report
Report No. SS 2505425

ISO/IEC 47025
TL 004 - 02



Note - Measurement uncertainty for reported results are estimated at 95% confidence level and able to provide with the test report on your request.

Bacteriological Requirements for Potable Water (SIS 614: 2013)

Source of Water	Total coliform count /100 mL (MPN)	<i>E.coli</i> / 100 mL (MPN)
Public water supply (Municipal supply, Water Board supply)	03	Shall not be detectable
Individual or small community supply (Well, Tube well)	10	Shall not be detectable



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ISO/IEC 17025
TL 004 - 01

TEST REPORT

Report No: SS 2505424

Report to :

Mr. K.V.L.R. Nishshanka

Public Health Inspector - Watareka,

M.O.H Office,

Homagama.

Issued by :

Chemical and Microbiological Laboratory
Industrial Technology Institute

2025/05/23

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2025/05/23

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Continuation Sheet

TEST REPORT
Report No: SS 2505424



ISO/IEC 17025
TL 004 - 01

Customer : Mr. K.V.L.R. Nishshanka Public Health Inspector - Watareka, M.O.H Office, Homagama.	Test Item : Raw Water Service Requested : Analysis for parameters given in SLS 614: 2013 specification for Potable Water (First Revision) as in customer letter received on 2025/03/26 except Odour & Taste.
Description : Approximately 10 liters of clear colorless water contained in a sealed plastic bottle and seven sealed glass bottles.	Identification of Test Item : Label : Attached Below Date of Receipt of Test Item : 2025/03/26.

Label :

Water Quality Surveillance Water sample for Bacteriology / Chemical Investigation		
MOH Area:- Homagama / PHI Area:- Watareka		
Name of the water supply / Location :- Spring Road (Plot) Ltd. No. 100 / 1, Thalabena, Megoda, Padukka		
Date of sampling :- 2025.03.26 Time of sampling :- 12.35 P.M.		
Whether the water is subjected to chlorination :- Yes / No		
Residual chlorine level :-		
Sample No :- WS/CHE/100/01/2025		
K.V.L.R. NISHSHANKA Public Health Inspector Sender's Name	Public Health Inspector Designation	Signature

Test Dates : 2025/03/26 - 2025/05/22



Continuation Sheet

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ISO/IEC 17025
TI 004 - 01

Test Results :

Test	Unit	Method	Results	L.O.D	E.U.% (k=2)
# Colour	HzU	APHA 2120 B	Not detected	5	-
Turbidity	NTU	APHA 2130 B	Not detected	1.0	-
pH at 25 °C	-	APHA 4500 - H ⁺ B	5.9	-	1.0
Chloride (as Cl)	mg/L	APHA 4110 B	5.2	-	13.0
Total Alkalinity (as CaCO ₃)	mg/L	APHA 2320 B	10.6	-	12.0
# Free Residual Chlorine (as Cl ₂)	mg/L	APHA 4500 Cl G	Not detected	0.2	-
# Free Ammonia (as NH ₃)	mg/L	SLS 614:2013, Appendix A	Not detected	0.02	-
# Albuminoid Ammonia (as NH ₃)	mg/L		Not detected	0.02	-
Nitrate (as NO ₃ ⁻)	mg/L		6.5	-	15.9
Nitrite (as NO ₂ ⁻)	mg/L	APHA 4500 NO ₂ ⁻ B	Not detected	0.03	-
Fluoride (as F ⁻)	mg/L	APHA 4110 B	Not detected	0.1	-
Phosphates (as PO ₄ ³⁻)	mg/L	APHA 4110 B	Not detected	0.5	-
Total Dissolved Solids at 180°C	mg/L	APHA 2540 C	32	-	13
Total Hardness (as CaCO ₃)	mg/L	APHA 2340 C	14.5	-	8.0
Sulfate (as SO ₄ ²⁻)	mg/L	APHA 4110 B	Not detected	1.0	-
Calcium (as Ca ²⁺)	mg/L	APHA 3500 Ca - B	6.4	-	8.8
# Magnesium (as Mg ²⁺)	mg/L	APHA 3500 Mg- B	3.1	-	-
# Cyanide (as CN ⁻)	mg/L	CML 18	Not detected	0.05	-
Total Iron (as Fe)	mg/L	RAL/MM/02/01/004	Not detected	0.01	-
Sodium (as Na)	mg/L		3.8	-	5.5
Copper (as Cu)	mg/L		Not detected	0.01	-
Manganese (as Mn)	mg/L		0.008	-	1.8
Zinc (as Zn)	mg/L		0.03	-	1.2
Aluminium (as Al)	mg/L		Not detected	0.01	-
Arsenic (as As)	mg/L		Not detected	0.001	-
Cadmium (as Cd)	mg/L		Not detected	0.001	-
Lead (as Pb)	mg/L		Not detected	0.001	-
Nickel (as Ni)	mg/L		Not detected	0.001	-
Mercury (as Hg)	mg/L		Not detected	0.001	-
Selenium (as Se)	mg/L		Not detected	0.001	-
Chromium (as Cr)	mg/L		Not detected	0.01	-
Chemical Oxygen Demand (COD)	mgO ₂ /L	APHA 5220 D	Not detected	5	-
Phenolic Compound (as C ₆ H ₅ OH)	mg/L	APHA 5530 B & D	Not detected	0.1	-
Oil & Greases	mg/L	APHA 5520 B	Not detected	1	-



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Test Results:

Test Method - RAL/MM/01/01/001			
Test	Unit	Results	Limit of Determination
α -HCH	$\mu\text{g/L}$	Not detected	0.08
β -HCH	$\mu\text{g/L}$	Not detected	0.08
γ -HCH (Lindane)	$\mu\text{g/L}$	Not detected	0.08
δ -HCH	$\mu\text{g/L}$	Not detected	0.08
Aldrin	$\mu\text{g/L}$	Not detected	0.08
Dieldrin	$\mu\text{g/L}$	Not detected	0.08
Hepachlor	$\mu\text{g/L}$	Not detected	0.08
Heptachlorepoxyde	$\mu\text{g/L}$	Not detected	0.08
Endrin	$\mu\text{g/L}$	Not detected	0.08
Endrin aldehyde	$\mu\text{g/L}$	Not detected	0.08
Endosulfan I	$\mu\text{g/L}$	Not detected	0.08
Endosulfan II	$\mu\text{g/L}$	Not detected	0.08
Endosulfan Sulphate	$\mu\text{g/L}$	Not detected	0.08
p,p' DDE	$\mu\text{g/L}$	Not detected	0.08
p,p' DDT	$\mu\text{g/L}$	Not detected	0.08
o,p' DDD	$\mu\text{g/L}$	Not detected	0.08
p,p' DDD	$\mu\text{g/L}$	Not detected	0.08
HCB	$\mu\text{g/L}$	Not detected	0.08
Trifluralin	$\mu\text{g/L}$	Not detected	0.08
# Chlorothalonil	$\mu\text{g/L}$	Not detected	2.0
# Propanil	$\mu\text{g/L}$	Not detected	2.0



Continuation Sheet

Report No: SS 2505424



ISO/IEC 17025
TL 004 - 01

Test Results :

Test	Unit	Method	Results	Limit of determination
Metribuzin	µg/L	RAL/MM/01/01/003	Not detected	5.0
Hexaconazole	µg/L		Not detected	5.0
Tebuconazole	µg/L		Not detected	5.0
BPMC	µg/L		Not detected	5.0
Diazinon	µg/L		Not detected	5.0
Thiamethoxam	µg/L		Not detected	5.0
Bispyribac Sodium	µg/L		Not detected	5.0
Carbofuran	µg/L		Not detected	5.0
Fipronil	µg/L		Not detected	5.0
Imidacloprid	µg/L		Not detected	5.0
Dimethoate	µg/L		Not detected	5.0
Diuron	µg/L		Not detected	5.0
Methomyl	µg/L		Not detected	5.0
Isoprothiolane	µg/L		Not detected	5.0
Fenamiphos	µg/L		Not detected	5.0
Flutolanil	µg/L		Not detected	5.0
Triazophos	µg/L		Not detected	5.0
Glyphosate	µg/L		Not detected	5.0
AMPA	µg/L		Not detected	5.0
Glufosinate Ammonium	µg/L		Not detected	10.0
Profenophos	µg/L		Not detected	10.0
Pirimiphos methyl	µg/L		Not detected	10.0
Phenthoate	µg/L		Not detected	10.0
Fenitrothion	µg/L		Not detected	10.0
Malathion	µg/L		Not detected	10.0
Fenthion	µg/L		Not detected	10.0

APHA – Standard Methods for the examination of water and waste water APHA, AWWA, WEF, 2023, 24th edition
CML – Chemical & Microbiological Laboratory # - SLAB Non accredited Tests SLS - Sri Lanka Standards
RAL - Residue Analysis Laboratory E. U - Expanded Uncertainty L. O. D – Limit of determination

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Statement of Conformity: The test item of water submitted by the customer to ITI on 2025/03/26 conforms to the requirements of SLS 614: 2013 for all the parameter tested, except pH. After aeration pH increased to 6.8 (within the permissible level)

Analyses were carried out by Ms. P.V.G.S. Bhagya – Research Scientist under supervision of
Dr. K. Mahatantila – Senior Research Scientist,
Ms. M. Peiris, Ms. A. N. Kodippili & Ms. R. Weerasooriya – Assistant Research Technologists,
Ms. T. Athukorala – Assistant Research Technologist under supervision of
Ms. M. Peiris – Assistant Research Technologist, Mr. M.S. Thiwanka – Assistant Research Technologist under
supervision of N. Amarasinghe - Research Technologist.

Analysis of metals and pesticides residues were internally subcontracted to the Accredited Residue Analysis Laboratory of ITI.

Thushani Vithanage

Grad. Chem, M.Sc. (Analytical Chemistry)

A. I. Chem. C

Research Scientist

Chemical and Microbiological Laboratory

Industrial Technology Institute

Enclosure: Sri Lanka Specification for Potable Water (First Revision) SLS 614: 2013

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Authorized Signatory
2025/05/23
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Enclosure: Sri Lanka Specification for Potable Water (First Revision) SLS 614: 2013
Table 1 - Physical and Organoleptic Requirements

Characteristic	Requirements
Colour	15 Hazen units (max)
Odour	Unobjectionable
Taste	Unobjectionable
Turbidity	2 NTU (max)
pH at 25°C ± 2°C	6.5 - 8.5

Table 2 - Chemical Requirements

Characteristic	Requirement (Maximum)
Chloride (as Cl)	250 mg/l
Total Alkalinity (as CaCO ₃)	200 mg/l
Free Residual Chlorine	1.0 mg/l
Free Ammonia (as NH ₃)	0.06 mg/l
Ammonoid Ammonia (as NH ₃)	0.15 mg/l
Nitrate (as NO ₃)	50 mg/l
Nitrite (as NO ₂)	3 mg/l
Fluoride (as F)	1.0 mg/l
Total Phosphates (as PO ₄)	2.0 mg/l
Total Dissolved Solids	500 mg/l
Total Hardness (as CaCO ₃)	250 mg/l
Total Iron (as Fe) ^{c)}	0.3 mg/l
Sulphate (as SO ₄)	250 mg/l
Anionic detergent (as MBAS)	0.2 mg/l
Phenolic compounds (as C ₆ H ₅ OH)	0.001 mg/l
Oil & Grease	0.2 mg/l
Calcium (as Ca)	100 mg/l
Magnesium (as Mg) ^{d)}	30 mg/l
Copper (as Cu)	1.0 mg/l
Manganese (as Mn) ^{e)}	0.1 mg/l
Zinc (as Zn)	3.0 mg/l
Aluminium (as Al)	0.2 mg/l
Chemical Oxygen Demand (COD)	10 mg/l
Nickel (as Ni)	0.02 mg/l
Sodium (as Na)	200 mg/l

Tests for Pesticides residues may not be necessary for routine analysis and carried out only if required or requested.

Table 3 - Toxic substances

Characteristic	Maximum permissible
Arsenic (as As)	0.01 mg/l
Cadmium (as Cd)	0.003 mg/l
Cyanide (as CN)	0.05 mg/l
Lead (as Pb)	0.01 mg/l
Mercury (as Total Hg)	0.001 mg/l
Selenium (as Se)	0.01 mg/l
Chromium (as Cr)	0.05 mg/l

Table 4 - Microbiological requirements

Source of Water	Total Coliform count / 100 ml (MPN)	<i>E. coli</i> / 100 ml (MPN)
Public water supply (Municipal supply and water Board supply)	03	Should be Absent
Individual or small community supply (well and Tube well)	10	Should be Absent

^{a)} Total concentration of Manganese (as Mn) and Iron (as Fe) shall not exceed 0.3 mg/l
^{b)} Not more than 30 mg/l, if there is 250 mg/l sulphate. If there is less sulphate, magnesium upto 150 mg/l may be allowed.