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ISO/ IEC 17025

TL 064-02

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories

Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: TL 064-02

Environmental Studies and Services Laboratory

National Building Research Organization

99/1, Jawatta Road, Colombo 05

Scope of Accreditation: Performing Chemical testing on Water, Wastewater and Cement & Acoustic measurements on Boundary Noise Level as per APHA, SLS ISO and In-house methods based on the SLS ISO, BS and Extraordinary Gazette No 924/12,2023.

The laboratory is accredited for the following tests.

SI No.	Product(s) / Material of test	Specific tests performed	Test method / Standard against which tests are performed	Range of testing / Limits of detection
01. Chemical testing				
1.1	Water and Wastewater	pH	APHA 4500-H ⁺ B, 24 th Edition, 2023	1- 13
1.2		Chlorides as Cl ⁻	APHA 4500-Cl ⁻ B, 24 th Edition, 2023	(4 – 5000) mg/L
1.3		Hardness as CaCO ₃	APHA 2340 C, 24 th Edition 2023	(8-1000) mg/L
1.4		Alkalinity as CaCO ₃	APHA 2320 B, 24 th Edition, 2023	(21 – 5000) mg/L
1.5		Chemical Oxygen Demand (COD) - High	APHA 5220 B & a, 24 th Edition, 2023	(50 - 800) mg/L
1.6		Chemical Oxygen Demand (COD) - Low	APHA 5220 B & b, 24 th Edition, 2023	(4 – 50) mg/L
1.7		Biochemical Oxygen Demand (BOD)	APHA 5210 B, 24 th Edition, 2023	(8 – 300) mg/L
1.8		Total Solids (Dried at 103 – 105°C)	APHA 2540 B, 24 th Edition, 2023	(2-2000) 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
1.9	Water and Wastewater	Total Dissolved Solids (Dried at 180°C)	APHA 2540 B, 24 th Edition, 2023	(2-2000) mg/L
1.10		Total Suspended Solids (Dried at 103 – 105°C)	APHA 2540 D, 24 th Edition, 2023	(2-2000) mg/L
1.11		Sulfates as SO ₄ ⁻²	APHA 4500 D, Turbidimetric Method, 24 th Edition, 2023	(8- 40) mg/L
1.12		Dissolved Reactive Phosphorus as P	APHA 4500 P, Stannous chloride method, 24 th Edition, 2023	(0.2 – 1.0) mg/L
1.13		Total Phosphorus as P	APHA 4500 P, Stannous chloride method, 24 th Edition, 2023	(0.2 – 1.0) mg/L
1.14		Oil and Grease	APHA 5520 B, Partition Gravimetric Method, 24 th Edition, 2023	(0.5 – 100) mg/L
2.1	Cement	Loss on Ignition (LOI)	SLS ISO 29581-1:2011, Clause 7	0.01 – 20.0 % m/m
2.2		Insoluble Residue (IR)	SLS ISO 29581-1:2011, Clause 9	0.01 – 20.0 % m/m
2.3		Sulfates as SO ₃ ⁻²	ESSD/MM/MQ/CEM/01	0.01 – 15.0 % m/m
2.4		Chloride as Cl ⁻	SLS ISO 29581-1:2011, Clause 14	0.01 – 16.0 % m/m
02. Acoustic Measurements				
1.1	Boundary Noise Level Measurement	Boundary Noise Level Measurement	NBRO/ESSD/MM/NOISE-PART 1 (Based on the BS 4142 :2014 +A1:2019 and Extraordinary Gazette No 924/12,2023).	25 – 140 dB

Director/CEO (Coverup Duties)
Sri Lanka Accreditation Board for Conformity Assessment