

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



Valid from 08 August 2018
to 18 November 2019
Issued on 08 August 2018



ISO/ IEC 17025
TL 004 - 03

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number : TL 004 – 03

Material Laboratory
Industrial Technology Institute
N o.363, Baudhdhaloka Mawatha
Colombo 07.

Scope of Accreditation: Performing Chemical Testing on Cement and Metal (Reinforcement Steel) and Mechanical Testing on Metal (Reinforcement Steel) as per the test methods appearing in this schedule

The laboratory is accredited for the following tests.

Sl	Product(s)/ Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
Chemical Testing				
01	Cement	Loss on ignition	SLS 107:2015 SLS ISO 29581: Part 1:2011 BS EN 196 : Part 2: 2013	0.1 – 10.0 %
		Insoluble residue		0.1 – 10.0 %
		Sulfate		0.1 – 5.0 %
		Chloride		0.01 – 0.50 %
02	Metal - Reinforcement Steel	Carbon	Combustion Infrared -Absorption method	0.01 % - 0.50 %
		Sulphur		0.001 % - 0.050 %
		Phosphorus	UV Visible Spectrophotometry	0.001 % - 0.010 %
		Copper	Atomic Absorption Spectrophotometry	0.01 % - 1 %
		Carbon Equivalent	Atomic Absorption Spectrophotometry	0.01 % - 1 %

SI	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
Mechanical Testing				
03	Metal Reinforcement Steel (Diameter 10-32mm)	Yield strength, MPa	SLS 375:2009 and BS 4449:2005 + A3:2016	475-675
		Tensile Strength , MPa		500-700
		Tensile Strength to Yield strength ratio		1.00:1.50
		Total elongation at maximum force, %		1.0 -10.0
		Mass per meter, kg		0.500-7.000
		Rebend test		Upto 900 kN
		Bend test	SLS 375:2009	Upto 900 kN
		Total Elongation at break		10-40

Director /CEO
Sri Lanka Accreditation Board for Conformity Assessment