

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



Valid from 11 April 2018
to 30 November 2020
Issued on 19 September 2018



ISO/IEC 17025
CL 005 - 01

Schedule of Accreditation

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

Accreditation Number : CL 005 – 01

Industrial Metrology Laboratory
Industrial Technology Institute
No.210/4, Wijerama Mawatha
Colombo 07.

Scope of Accreditation: Performing Mechanical (Dimension & Mass), Electrical, Thermal and Volumetric calibration as per the test methods appearing in the schedule.

The laboratory is accredited for the following tests.

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution	CMC (Approximately at 95% Confidence Level)	Location
Volume						
07	Calibration of volumetric glassware by gravimetric method One mark pipette Graduated pipette Burette Volumetric flask Graduated measuring cylinder	MM/VO/01: Rev:05	5ml 50ml 100ml 200ml 500ml 1000ml 2000ml		0.001 ml 0.001 ml 0.001 ml 0.002 ml 0.08 ml 0.08 ml 0.14 ml	Laboratory
08	Piston operated volumetric Apparatus - Micropipette	MM/VO/01: Rev:03	11 µl 100 µl 500 µl 1000 µl 5ml 50ml 100 ml 200 ml		0.26 µl 0.26 µl 0.91 µl 0.91 µl 0.94 µl 2.3 µl 4.2 µl 8.2 µl	Laboratory

Sl No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC (Approximately at 95% Confidence Level)	Location
Dimension						
01	Calibration of Gauge Blocks	MM/DI/02 : Rev: 05	0 to 10 10 to 25 25 to 50 50 to 75 75 to 100		0.07 µm 0.10 µm 0.16 µm 0.22 µm 0.29 µm	Laboratory
02	Calibration of Vernier Caliper	MM/DI/03 : Rev: 05	0 to 150 150 to 200 200 to 300 300 to 600 600 to 900	0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.1	31 µm 56 µm 31 µm 56 µm 31 µm 56 µm 31 µm 56 µm 31 µm 56 µm 103 µm	Laboratory
03	Calibration of Micrometer(External)	MM/DI/04 : Rev: 05	0 to 25 25 to 75 75 to 200 200 to 300 300 to 500	0.01 0.001 0.01 0.001 0.01 0.001 0.01 0.001 0.01 0.001	9 µm 1 µm 9 µm 1 µm 9 µm 2 µm 9 µm 2 µm 9 µm 2 µm	Laboratory
04	Calibration of Steel rule	MM/DI/05 : Rev: 05	0 to 150 150 to 300 300 to 500 500 to 1000	1 1 1 1	900 µm 900 µm 900 µm 900 µm	Laboratory
05	Calibration of Dial Gauges	MM/DI/06 : Rev: 05	0 to 25	0.01 0.001	9 µm 3 µm	Laboratory
06	Calibration of Micrometer (Internal)	MM/DI/07 : Rev: 05	50 to 75 75 to 100 100 to 125 125 to 150 150 to 175 175 to 200	0.01 0.01 0.01 0.01 0.01 0.01	11 µm 11 µm 11 µm 11 µm 11 µm 11 µm	Laboratory

Sl No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC(Approximately at 95% Confidence Level)	Location		
Mass								
01	Calibration of Weighing Balances	MM/MA/01 : Rev 07 MM/MA/02 : Rev 03 MM/MA/04 : Rev 03 MM/MA/07 : Rev 05	0 – 200g 0 – 500g 0 – 1kg 0 – 5kg 0 – 20kg	0.01mg 0.1mg 1mg 10mg 100mg	0.03mg 0.12mg 1.2mg 8.2mg 129 mg	Onsite		
02	Determination of the conventional mass value of weights-Direct comparison method	MM/MA/05: Rev 04	F1 Class					
			20000 g		100 mg			
			E2 Class					
			10000 g		3 mg			
			5000 g		1 mg			
			2000 g		0.9 mg			
			1000 g		0.1 mg			
			500 g		0.09 mg			
			200 g		0.02 mg			
			100 g		0.03 mg			
			50 g		0.02 mg			
			20 g		0.009 mg			
			10 g		0.007 mg			
			5 g		0.006 mg			
			2 g		0.005 mg			
			1 g		0.004 mg			
			0.5 g		0.004 mg			
			0.2 g		0.003 mg			
			0.1 g		0.003 mg			
			0.05 g		0.002 mg			
			0.02 g		0.002 mg			
0.01 g		0.002 mg						
0.005 g		0.002 mg						
0.002 g		0.002 mg						
0.001 g		0.002 mg						
					Laboratory			

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Thermal						
01	Calibration of Liquid-in glass Thermometer	MM/TE/02 : Rev: 05	-60 to +35 ^o C 35 to 250 ^o C 250 to 500 ^o C		32mK 40mK 50mK	Laboratory/ Onsite
02	Calibration of a dial thermometer	MM/TE/03 : Rev: 04	-60 to +35 ^o C 35 to 250 ^o C 250 to 550 ^o C		108mK 111mK 115mK	Laboratory /Onsite
03	Comparison calibration of PRT	MM/TE/04 : Rev: 05	-39 ^o C 0.01 ^o C 29 ^o C 156 ^o C 231 ^o C 420 ^o C		12 mK 5 mK 15 mK 19 mK 34 mK 23 mK	Laboratory
04	Calibration of a digital thermometer with a sensor	MM/TE/05 : Rev: 06	-60 to +35 ^o C 35 to 250 ^o C 250 to 660 ^o C		30mK 32mK 48mK	Laboratory/ Onsite
05	Calibration of a thermocouple	MM/TE/06 : Rev: 03	-60 to +35 ^o C 35 to 250 ^o C 250 to 500 ^o C 500 to 1100 ^o C		0.8 ^o C 0.7 ^o C 0.9 ^o C 1.6 ^o C	Laboratory
06	Calibration of temperature indicators and controllers Calibration of simulators Voltage Resistance Current	MM/TE/07 : Rev: 05	100 to 1500 ^o C 100 to 1500 ^o C		0.01 ^o C 1.6μv 1.2mΩ 1μA	Laboratory/ Onsite
07	Performance test of block calibrator	MM/TE/08 : Rev: 04	-60 to +600 ^o C		49mK	Laboratory
08	Performance test of laboratory Oven/incubator – multi points	MM/TE/09 : Rev: 04	50 to 250 ^o C for ovens 15 to 60 ^o C for incubators		0.4 ^o C 0.2 ^o C	Laboratory/ Onsite
09	Performance test of laboratory Oven/incubator – three points	MM/TE/10 : Rev: 04	50 to 250 ^o C for ovens and 15 ^o C to 60 ^o C for incubators		0.4 ^o C 0.2 ^o C	Laboratory/ Onsite
10	Performance test of stirred liquid bath	MM/TE/11 : Rev:03	-60 to +600 ^o C		32mK	Laboratory/ Onsite
11	Performance test of autoclave	MM/TE/12 : Rev:03	100 to 130 ^o C		0.3 ^o C	Laboratory/ Onsite
12	Performance test of muffle furnace	MM/TE/13 : Rev:03	250 to 1100 ^o C		1.2 ^o C	Laboratory/ Onsite
13	Performance test of water bath	MM/TE/14 : Rev: 03	5 to 95 ^o C		0.1 ^o C	Laboratory/ Onsite

Sl No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC(Approximately at 95% Confidence Level)	Location
Electrical - Calibration of Digital Multimeters						
01	DC Voltage	MM/EL/01: Rev: 07	100 mV 1 V 10 V 100 V 1000 V		8 μ V/V 3 μ V/V 3 μ V/V 4 μ V/V 4 μ V/V	Laboratory
02	Ac Voltage		100 mV 1 V 10 V 100 V 1000 V	40 Hz - 20 kHz 40 Hz - 20 kHz 40 Hz - 20 kHz 40 Hz - 20 kHz 50 Hz - 10 kHz	113 μ V/V 84 μ V/V 89 μ V/V 90 μ V/V 96 μ V/V	
03	DC Current		100 μ A 1 mA 10 mA 100 mA 1 A 10 A 20 A		23 μ A/A 17 μ A/A 18 μ A/A 36 μ A/A 161 μ A/A 161 μ A/A 161 μ A/A	
04	AC Current		100 μ A 1 mA 10 mA 100 mA 1 A 10 A 20 A	40 Hz - 10 kHz 40 Hz - 10 kHz 40 Hz - 10 kHz 40 Hz - 10 kHz 40 Hz - 10 kHz 40 Hz - 10 kHz 40 Hz - 1 kHz	346 μ A/A 344 μ A/A 346 μ A/A 321 μ A/A 724 μ A/A 724 μ A/A 724 μ A/A	
05	Resistance		1 ohm 10 ohm 100 ohm 1000 ohm 10000 ohm 100000 ohm 1000000 ohm 10000000 ohm 100000000 ohm		12 μ ohm/ohm 8 μ ohm/ohm 8 μ ohm/ohm 7 μ ohm/ohm 8 μ ohm/ohm 7 μ ohm/ohm 9 μ ohm/ohm 14 μ ohm/ohm 66 μ ohm/ohm	

Sl No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC (Approximately at 95% Confidence Level)	Location
Electrical - Calibration of Clamp on Meters						
01	DC Voltage	MM/EL/03: Rev: 01	4 V 40 V 400 V 600 V		0.2 mV/V 0.2 mV/V 0.2 mV/V 1.3 mV/V	Laboratory
02	AC Voltage		4 V 40 V 400 V 600 V	50 Hz 50 Hz 50 Hz 50 Hz	0.2 mV/V 0.2mV/V 0.7 mV/V 5.0 mV/V	
03	DC Current		40 V 400 V 1000 V		0.3 mA/A 1.5 mA/A 1.0 mA/A	
04	AC Current		40 V 400 V 1000 V	50 Hz	0.5 mA/A 0.9 mA/A 5.0 mA/A	

Director /CEO
Sri Lanka Accreditation Board for Conformity Assessment