



Valid from 17 May 2024
to 16 May 2028
Issued on 11 December 2024

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



ISO/ IEC 17025
CL 006-01

Schedule of Accreditation

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

Accreditation Number: CL 006-01

**Electruments International (Pvt) Ltd,
No. 371/C, Main Street,
Ganemulla.**

Scope of Accreditation: Performing Mass and Related Quantities, Length, Time and
Frequency & Thermal Calibrations and Measurement verification
of instruments as per the calibration methods appearing in the schedule.

The Laboratory is accredited for the following tests appear from page 02 to 05;

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability (CMC) (At 95% confidence Level, k=2) (±)	Location (Site/ In house)
Thermal							
01	Calibration of Glass Thermometer	Temperature	ECAL/SOP/T05 Rev:01	0 to 200 °C	0.1 °C	0.19 °C	In house
					0.2 °C	0.25 °C	
					0.5 °C	0.4 °C	
					1 °C	0.72 °C	
02	Calibration of Digital Thermometer, Temperature Indicator with Sensor	Temperature	ECAL/SOP/T02 Rev:03	-30 to 50 °C	0.01 °C	0.62 °C	Site/ In house
				<50 to 200 °C		0.16 °C	
				<200 to 400 °C		0.36 °C	
				-30 to 50 °C	0.1 °C	0.62 °C	
				<50 to 200 °C		0.17 °C	
				<200 to 400 °C		0.37 °C	
				-30 to 50 °C	1 °C	0.84 °C	
				<50 to 200 °C		0.65 °C	
				<200 to 400 °C		0.70 °C	
				-30 to 400 °C	2 °C	1.3 °C	
					5 °C	3 °C	
				03	Calibration of Bottle Cooler, Refrigerator, Chiller	Temperature	
Calibration of Freezer	(-30 to 5) °C	0.1 °C	0.9 °C				
Calibration of Liquid Bath	(-10 to 250) °C	0.1 °C	0.9 °C				
Calibration of Oven, Incubator, Dryer	(0 to 250) °C	0.1 °C	0.7 °C				
04	Calibration of Hygrometer (25°C and at RH 50%)	Temperature	ECAL/SOP/T04 Rev:06	@50 %			Site/ In house
				RH 15°C - 25°C	0.1	0.8 °C	
				RH <25°C - 40°C		1.1 °C	
		Humidity		@25 °C			
				20 –35 RH %	0.1	1.2 (%)	
				55 – 70 RH %		2.0 (%)	
				70 – 80 RH %		2.2 (%)	

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Mass and related quantities							
05	Pirspirometer Weight Calibration	Mass	ECAL/SOP/M07 Rev:07	0 - 5000 g	0.01 g	0.12 g	Site/ In house
06	Calibration of Analytical Balance, Precision Balance, Single pan, Top Loading Electronic Balance	Mass	ECAL/SOP/M01 Rev:08	(0-500) g	0.001 g	0.0030 g	
				(<500- 1000)g	0.01 g	0.050 g	
				(<1000- 10000)g	0.1 g	1.0 g	
				(<10000- 20000)g	1 g	1.5 g	
07	Calibration of Pressure Gauge, Pressure Transducers (Pneumatic)	Pressure	ECAL/SOP/M09 Rev:04	0 -1000 Pa (0 - 20) bar	1 Pa 0.01 bar	4.0 Pa 0.070 bar	
				0 -1000 Pa	1 Pa	4.0 Pa	
08	Calibration of Bursting Strength Machine Pressure Gauge (Pneumatic)	Pressure	ECAL/SOP/M09 Rev:04	(0 - 20) bar	0.01 bar	0.070 bar	
09	Force verification of Vertical Tensile Testing Machines and force measuring instruments with digital display or dial indicator	Force	ECAL/SOP/M10 Rev:07	(0 - 100) N (<300 - 1000) N		1.5 N 0.5%	
				(<1000- 5000) N		5%	
				(0 - 100) N (<300 - 1000) N		1.5 N 0.5%	
Time and Frequency							
10	Calibration of Stop Watch/ Timers/ Machine Inbuild Timers (Observe method)	Time	ECAL/SOP/TI-01 Rev:03	30 sec	0.01 sec	1.2 sec	Site/ In house
				<30 sec to1800 sec	0.01 sec	1.2 sec	
				<30 sec to1800 sec	0.1 sec	1.2 sec	
				<30 sec to1800 sec	1 sec	1.4 sec	
				<1800 sec to 3600sec	1 sec	2.0 sec	
				<3600 sec to 32400 sec	1 sec	4.1 sec	
				<1 min to 540 min	1 min	35 sec	
11	Calibration of Stop Watch/ Timers/ Machine Inbuild Timers (Photo method)			30 sec	0.01 sec	0.16 sec	
				<30 sec to1800 sec	1 sec	0.62 sec	
				<1800 sec to 3600 sec	1 sec	1.7 sec	
				<3600 sec to 32400 sec	1 sec	3.9 sec	

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12	Calibration of Stop Watch/ Timers/ Machine Inbuild Timers (Observe method)	Time	ECAL/SOP/TI-01 Rev:03	30 sec	0.01 sec	1.2 sec	Site/ In house	
				<30 sec to1800 sec	0.01 sec	1.2 sec		
				<30 sec to1800 sec	0.1 sec	1.2 sec		
				<30 sec to1800 sec	1 sec	1.4 sec		
				<1800 sec to 3600sec	1 sec	2.0 sec		
				<3600 sec to 32400 sec	1 sec	4.1 sec		
				<1 min to 540 min	1 min	35 sec		
13	Calibration of Stop Watch/ Timers/ Machine Inbuild Timers (Photo method)			30 sec	0.01 sec	0.16 sec		
				<30 sec to1800 sec	1 sec	0.62 sec		
				<1800 sec to 3600 sec	1 sec	1.7 sec		
				<3600 sec to 32400 sec	1 sec	3.9 sec		
14	Calibration of Tachometer, Stroboscope (Optical Method Using Tachometer)	RPM	ECAL/SOP/M08 Rev:03	(30- 100) RPM	0.1 RPM	0.4 RPM		
				(<100 - 1000) RPM	0.1 RPM	0.25%		
				(<1000- 10000) RPM	1 RPM	0.10%		
				(<10000- 90000) RPM	1 RPM	0.06%		
15	Calibration of Inbuild RPM Device (Optical Method Using Tachometer)	RPM	ECAL/SOP/ M08 Rev:03	(30- 100) RPM	0.1 RPM	0.4 RPM		
				(<100 - 1000) RPM	0.1 RPM	0.25%		
				(<1000- 10000) RPM	1 RPM	0.10%		
				(<10000- 90000) RPM	1 RPM	0.06%		
Measurement verification								
16	Measurement Verification of Temperature controlled Tumble dryer	Temperature	ECAL/SOP/T03 Rev:01	20°C to 30°C	0.1 °C	1 °C	Site/ In house	
				<30°C to 90°C	0.1 °C	2.5 °C		
		RPM	ECAL/SOP/M08 Rev:03	(35- 60) RPM	0.1 RPM	0.50 RPM		
		Time	ECAL/SOP/TI-01 Rev:03	Cool down Time 10 min Heating Time up to 90 min	1 sec	1.6 sec		
	Cool down Time 10 min			1 sec	2.2 sec			
17	Measurement Verification of Temperature controlled AATCC Washing Machine	Temperature	ECAL/SOP/T03 Rev:01	27°C - 41°C	0.1	0.5 °C		
				<41°C -95°C	0.1	1.1 °C		
		RPM	ECAL/SOP/M08 Rev:03	25 RPM- 100 RPM	0.1 RPM	0.6 RPM		
				(500 RPM-700 RPM)	0.1 RPM	0.40%		
		Time	ECAL/SOP/TI-01 Rev:03	Spin time (5 min)	1 sec	1.6 sec		
				Washing time (16 min)	1 sec	1.6 sec		
				Washing time (12 min)	1 sec	1.6 sec		
		Washing time (8.5 min)	1 sec	1.6 sec				
18	Measurement Verification of Temperature controlled Standard washer	Temperature	ECAL/SOP/T03 Rev:01	27°C - 41°C	0.1 °C	0.5 °C		
				<41°C -80°C	0.1 °C	0.8 °C		
				<80°C -90°C	0.1 °C	1.0 °C		
		RPM	ECAL/SOP/M08 Rev:03	(40-100) RPM	0.1 RPM	0.80%		
				(500-1000) RPM	0.1 RPM	0.24%		
				(<1000-1150) RPM	0.1 RPM			
		Time	ECAL/SOP/TI-01 Rev:03	Up to 3 hr	1 sec	3.0 sec		

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability Value (CMC) (At 95% confidence Level, k=2) (±)	Location (Site/ In house)
Measurement verification							
19	Calibration of Martindale Abrasion & Pilling machine	RPM	ECAL/SOP/ M08 Rev:03	(44.5 - 47.5) RPM	0.1 RPM	0.4 RPM	Site/ In house
		Mass	ECAL/SOP/ M07 Rev:07	Up to 3000 g	0.01 g	0.13 g	
20	Measurement Verification of Temperature controlled Front Loading Domestic Washing Machine	Temperature	ECAL/SOP/ T03 Rev:01	30°C -60°C	0.1	0.8 °C	
		RPM	ECAL/SOP/ M08 Rev:03	(30-100) RPM	1 RPM	0.7 RPM	
				(500-1000) RPM	1 RPM	2 RPM	
				(<1000 -1500) RPM	1 RPM	2.4 RPM	
		Time	ECAL/SOP/ TI-01 Rev:03	Up to 02 hr	1 sec	2.3 sec	
21	Measurement Verification of Temperature controlled Durability washer	Temperature	ECAL/SOP/ T03 Rev:01	(50-90)°C	0.1	0.5 °C	
		RPM	ECAL/SOP/ M08 Rev:03	(500-3000) RPM	0.1 RPM	0.30%	
		Time	ECAL/SOP/ TI-01 Rev:03	up to 1 hr	1 sec	2.0 sec	
22	Measurement Verification of Temperature controlled Color Fastness Washing Machine	Temperature	ECAL/SOP/ T03 Rev:01	30°C -60°C	0.1	0.6 °C	
		RPM	ECAL/SOP/ M08 Rev:03	(30-50) RPM	0.1 RPM	0.40 rpm	
		Time	ECAL/SOP/ TI-01 Rev:03	up to 1 hr	1 sec	1.6 sec	

Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment