

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



Valid from 20 December 2019
to 27 October 2021
Issued on 20 December 2019



ISO/ IEC 17025
CL 007 - 01

Schedule of Accreditation

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

Accreditation Number: CL 007 – 01

Lanka Calibration Services (Pvt) Ltd
No 27/14A, Rosmead Place
Colombo 07.

Scope of Accreditation: Performing Electrical, Mechanical and Thermal calibrations as per the calibration methods appearing in this Schedule.

The laboratory is accredited for the following calibrations.

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
1	DC Volt measuring instrument	Direct comparison with a dc volt generator	LCS/TM/05.REV 0	0 – 1000 V	0.0010 mV to 0.0020 V	LCS laboratory
				0 – 12 V	0.0071 mV to 0.0025V	Site
2	DC volt generating instrument	Direct measurement of DC Volt	LCS/TM/05.REV 0	0 – 1000 V	0.0007 mV to 0.12 V	LCS laboratory
				0 – 60 V	0.0041 mV to 0.0064 V	Site
3	DC Current measuring instrument	Direct comparison with DC Current generator	LCS/TM/05.REV 0	0 μ A – 30 A	0.00050 μ A to 0.0066 A	LCS Laboratory
				0 – 25 mA	0.00046 mA to 0.0064 mA	Site
4	DC Current generating instrument	Direct measurement of DC Current	LCS/TM/05.REV 0	0 mA – 3 A	0.00007 mA to 0.0021 A	LCS Laboratory
				0 μ A – 9 A	0.089 μ A to 0.0082 A	Site
5	AC Volt measuring instrument	Direct comparison with AC volt generator	LCS/TM/05.REV 0	20 mV – 1000 V (10 Hz – 500 Hz)	0.020 mV to 0.82 V	LCS Laboratory
6	AC volt generating instrument	Direct Measurement of AC Volt	LCS/TM/05.REV 0	20 mV – 700 V (40 Hz – 500 Hz)	0.013 mV to 0.60 V	LCS Laboratory
7	AC Current measuring instrument	Direct comparison with AC current generator	LCS/TM/05.REV 0	25 μ A – 30 A (40 Hz – 1kHz)	0.11 μ A to 0.058 A	LCS Laboratory
8	AC Current generating instrument	Direct measurement of AC current	LCS/TM/05.REV 0	0.01 A – 2.7A (40 Hz- 200 Hz)	0.00003 A to 0.017 A	LCS Laboratory

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
9	Resistance measuring instrument	Direct comparison with fixed resistors(2-wire)	LCS/TM/05.REV 0	0 Ω – 1000 MΩ	0.007 Ω to 2.1 MΩ	LCS Laboratory
10		Direct comparison with resistance simulator (2 wire)		30 Ω – 10 MΩ	0.093 Ω to 0.0017 MΩ	
11		Direct comparison with fixed resistors(4 wire)		0.1 Ω – 100 kΩ	0.00030 Ω to 0.0037 kΩ	
12	Resistance generating instruments	Direct measurement of Resistance (2 wire)	LCS/TM/05.REV 0	0 Ω – 100 MΩ	0.012 Ω to 0.053 MΩ	LCS Laboratory
				0 Ω – 9 MΩ	0.12 Ω to 0.020 MΩ	Site
13		Direct Measurement of Resistance (4 wire)	LCS/TM/05.REV 0	0.1 Ω – 100 kΩ	0.0008 Ω to 0.0034 kΩ	LCS Laboratory
				0.1 Ω – 1000 Ω	0.00060 Ω to 0.097 Ω	Site
14	Frequency measuring instrument	Direct comparison with a frequency generator	LCS/TM/05.REV 0	100 Hz – 10 MHz	0.00013 Hz to 0.000022 MHz	LCS Laboratory
15	Frequency generating instruments	Direct measurement of Frequency	LCS/TM/05.REV 0	10 Hz – 2 GHz	0.000055 Hz to 0.0000060 GHz	LCS Laboratory
				100 Hz – 10 MHz	0.082 Hz to 0.0080 MHz	Site
16	Capacitance measuring instrument	Direct comparison with fixed capacitors @ 1 kHz	LCS/TM/05.REV 0	1 nF – 10 μF	0.024 nF to 0.089 μF	LCS Laboratory
17	Capacitance Generating instrument	Direct measurement of capacitance @ 1 kHz	LCS/TM/05.REV 0	1 nF – 10 μF	0.025 nF to 0.074 μF	LCS Laboratory
18	Inductance measuring instrument	Direct comparison with a inductance generator @ 1 V / 1 kHz	LCS/TM/05.REV 0	1 mH – 1 H	0.058 mH to 0.0016 H	LCS Laboratory
19	Inductance Generating instrument	Direct measurement of Inductance @ 1 V / 1 kHz	LCS/TM/05.REV 0	1 mH – 1 H	0.061 mH to 0.0089 H	LCS Laboratory

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
20	Power meters / Power analyzers	AC Power- Measurement of Voltage @ 3 A	Direct Comparison with AC/DC power generator	20 V – 500 V (45 Hz – 400 Hz)	0.009 V to 0.33 V	LCS Laboratory
		AC Power – Measurement of Current 20 VAC – 1000 VAC		100 mA – 30 A (56 Hz – 400 Hz)	0.12 mA to 0.015 A	
		DC Power- Measurement of Voltage		20 V – 1000 V	0.00068 V to 0.041 V	
		DC Power – Measurement of Current		1 mA – 30 A	0.0058 mA to 0.0034 A	
		Measurement of Phase angle 20 V – 200 V @ 50 Hz 3 A – 20 A		0° - 180°	0.31° to 0.39°	
21	Energy meters / Energy meter calibrators / Power meters & analyzers	Direct comparison with power meter calibrator	LCS/TM/11.REV 0	0.02 A – 120 A 46 V – 480 V	1 phase – 0.044 % 3 phase – 0.031 %	LCS Laboratory
22	Clamp on meters	Measurement of AC/DC Current using a coil	LCS/TM/02.REV 1	42 mA – 1500 A 40 Hz – 1 kHz	0.020 mA to 3.6 A	LCS Laboratory
				DC 0.04 A – 1500 A	0.0011 A to 0.29 A	
23	Insulation resistance testers	Direct comparison with fixed resistors	LCS/TM/01.REV 1	100 kΩ – 100 GΩ	0.03 % to 3.4 %	LCS Laboratory
		Measurement of Open circuit Voltage		0.5 kV – 9.8 kV	0.0011 kV to 0.27 kV	
		Measurement of Short circuit Current		0.5 mA – 17 mA	0.0014 mA to 0.12 mA	
24	Non-contact Digital tachometer	Direct comparison with a calibrated pulse generator	LCS/TM/06.REV 0	240 rpm – 60000 rpm	0.6 rpm to 2.4 rpm	LCS Laboratory
25	Centrifuges / Rotating shafts / fan blades	Non-contact measurement of RPM using a calibrated digital tachometer	LCS/TM/20.REV 0	240 rpm – 60000 rpm	0.6 rpm to 2.6 rpm	LCS Laboratory / Site*

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
26	Weighing scales	Direct comparison with standard weights	LCS/TM/09.REV 0	1 mg to 20 kg	0.0077 mg to 0.12 g	LCS Laboratory / Site*
				5 kg to 150 kg	0.010 kg to 0.030 kg	LCS Laboratory / Site*
27	Temperature Indicators intended to be used with Thermocouple	Direct comparison with an electrical temperature simulator	LCS/TM/08.REV 0	-250 °C to 2316 °C	0.36°C to 1.2 °C	LCS Laboratory/ Site*
28	Temperature Indicators intended to be used with PRT/RTD		LCS/TM/08.REV 0	-100 °C to 800 °C	0.026 °C to 0.094 °C	LCS Laboratory/ Site*
29	Temperature Simulators intended to be used with Thermocouple	Direct comparison with a temperature calibrator	LCS/TM/08.REV 0	-250 °C to 2316 °C	0.39 °C to 1.6 °C	LCS Laboratory/ Site*
30	Temperature Simulators intended to be used with PRT/RTD		LCS/TM/08.REV 0	-100 °C to 800 °C	0.067 °C to 0.27 °C	LCS Laboratory/ Site*
31	IR Thermometer	Measurement of temperature of a calibrated Black Body	LCS/TM/10.REV 0	25 °C to 500 °C	0.5 °C to 2.1 °C	LCS Laboratory
32	Digital Thermometer	Direct comparison with calibrated thermometer	LCS/TM/O3-A	-20 °C to 1000 °C	0.14 °C to 0.43 °C	LCS Laboratory/ Site*
33	Cold rooms, warehouses, freezer trucks, freezers /refrigerators	Thermal mapping - Temperature measurement using data loggers	LCS/TM/12.REV 0	-35 °C to 85°C	0.5 °C	Site
34	Ovens	Performance verification using thermocouples	LCS/TM/18.REV 0	50 °C to 200°C	0.8 °C	LCS Laboratory / Site*

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
35	Laboratory furnace	Direct comparison with a thermocouple	LCS/TM/19.REV 0	200 °C to 1000 °C	1.0 °C to 2.4 °C	Site
36	Oil/ Water Bath	Direct comparison with standard thermometer	LCS/TM/15.REV 0	-20 °C to 100 °C	0.04 °C to 0.14 °C	LCS Laboratory/ Site*
37	Hygrometer with an external probe	Direct comparison with unsaturated salt solutions	LCS/TM/16.REV 0	10 % to 95 %	0.3 % to 1.0 %	LCS Laboratory
38	Static Uniaxial Testing machines / CBR /Marshall Testers	Direct comparison with a calibrated load cell	LCS/TM/21.REV 0	0.21 kN to 9 kN	0.066 % to 0.053 %	Site
				0.64 kN to 45 kN	0.058 % to 0.043 %	
				250 kN to 2000 kN	0.30 % to 0.24 %	
39	Pneumatic Pressure Gauges / Pressure transmitters	Direct comparison with a reference pressure gauge	LCS/TM/04.REV 1	-0.95 bar to 40 bar	0.005 bar to 0.012 bar	LCS Laboratory / Site*
40	Hydraulic Pressure Gauges / Transmitters		LCS/TM/04.REV 1	0 bar to 600 bar	0.05 bar to 0.09 bar	LCS Laboratory / Site*
41	Block calibrators	Performance verification using thermometers	LCS/TM/14.REV 0	-20 °C to 1000 °C	0.37 °C to 3 °C	LCS Laboratory
42	High Voltage Generating Instruments	Measurement of voltage using HV probe	Direct Comparison	1100 V to 6000 V	2 %	LCS Laboratory / Site*
43	Open & enclosed areas	Direct measurement of % rh using calibrated hygrometer	LCS/TM/17	5% rh to 95 % rh	5 % rh	Site
44	Calibration of Humidity Sensor Using Salt solution	Calibration with salt solutions	LCS/TM/16 R1	10% rh to 95% rh	1.2% to 3.8%	LCS Laboratory

*CMC values could be higher depending on the environmental and other influence factors prevailing at site.

Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment