



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

Valid from 20 June 2018  
to 30 November 2020  
Issued on 20 June 2018



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
01	DC Volt measuring instrument	Generation of DC Volt	LCS/TM/05	0-1000 V	0.0043 mV to 0.040V	LCS laboratory
				0-12 V	0.013 mV to 0.0036V	Site
02	DC Volt generating instrument	Measurement DC Volt	LCS/TM/05	0-1000 V	0.0090 mV to 0.14V	LCS Laboratory
				0-60 V	0.0050 mV to 0.0092V	Site
03	DC Current measuring instrument	Generation of DC current	LCS/TM/05	0 $\mu$ A-30 A	0.035 $\mu$ A to 0.016A	LCS Laboratory
				0-25 mA	0.0041mA to 0.039 A	Site
04	DC current generating instrument	Measurement of DC current	LCS/TM/05	0 mA - 2.7A	0.0041 mA to 0.0093A	LCS Laboratory
				0 $\mu$ A- 9 A	0.089 $\mu$ A to 0.0082 A	Site
05	AC Volt measuring instrument	Generation of AC Volt	LCS/TM/05	20 mV-1000 V (10Hz-500Hz)	0.11 mV to 1.8 V	LCS Laboratory
06	AC Volt generating instrument	Measurement of AC Volt	LCS/TM/05	20 mV-700 V (40Hz-500Hz)	0.16 mV to 2.4 V	LCS Laboratory
07	AC/DC High volts generating	AC/DC High voltage measure using HV probe	Direct comparison Manufacture instructions for 3041 calibrator	1100 V to 6000 V	2.0%	LCS/Site
08	AC Current measuring instrument	Generation of AC current	LCS/TM/05	25 $\mu$ A - 30 A (40Hz-1kHz)	0.35 $\mu$ A to 0.075 A	LCS Laboratory
09	AC Current generating instrument	Measurement of AC current	LCS/TM/05	0.01 A - 2.7 A (40Hz-200Hz)	0.00084 A to 0.057A	LCS Laboratory
10	Resistance measuring instrument	Generation of resistance (2 wire fixed)	LCS/TM/05	0 $\Omega$ -1000M $\Omega$	0.048 $\Omega$ to 12 M $\Omega$	LCS Laboratory
11	Resistance generating instrument	Measurement of resistance (2 wire)	LCS/TM/05	0 $\Omega$ -100 M $\Omega$	0.056 $\Omega$ to 1.2 M $\Omega$	LCS Laboratory
				0 $\Omega$ - 4 k $\Omega$	0.072 $\Omega$ to 0.0011 k $\Omega$	Site

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
12	Resistance measuring instrument	Generation of resistance (2 wire Active simulation)	LCS/TM/05	30 $\Omega$ -10 M $\Omega$	0.093 $\Omega$ to 0.0036 M $\Omega$	LCS Laboratory
13	Resistance measuring instrument	Generation of resistance (4 wire fixed)	LCS/TM/05	0.1 $\Omega$ -100 k $\Omega$	0.0060 $\Omega$ to 0.0095 k $\Omega$	LCS Laboratory
14	Resistance generating instrument	Measurement of resistance (4 wire)	LCS/TM/05	0.1 $\Omega$ -100 k $\Omega$	0.0080 $\Omega$ to 0.033 k $\Omega$	LCS Laboratory
				0.1 $\Omega$ -1000 $\Omega$	0.0074 $\Omega$ to 0.28 $\Omega$	LCS Laboratory
15	Frequency measuring instrument	Generation of frequency	LCS/TM/05	100 Hz-10 M Hz	0.00015 Hz to 0.000019 MHz	LCS Laboratory
16	Frequency generating instruments	Measurement of frequency	LCS/TM/05	10 Hz - 2 GHz	0.000055 Hz to 0.0000060 GHz	LCS Laboratory
				100 Hz-50000 Hz	0.00064 Hz to 0.18 Hz	Site
17	Capacitance generating instrument	Generation of capacitance at 1 kHz	LCS/TM/05	1 nF-10 $\mu$ F	0.024 nF to 0.074 $\mu$ F	LCS Laboratory
18	Capacitance generating instrument	Measurement of capacitance at 1 kHz	LCS/TM/05	1 nF-10 $\mu$ F	0.028 nF to 0.089 $\mu$ F	LCS Laboratory
19	Inductance measuring instrument	Generation of inductance at 1V/1 kHz	LCS/TM/05	1 mH-1H	0.059 mH to 0.0059 H	LCS Laboratory
20	Inductance generating instrument	Measurement of inductance at 1V/1 kHz	LCS/TM/05	1 mH-1H	0.061 mH to 0.0089 H	LCS Laboratory
21	Power meters/ Power analyzers	AC power voltage generation at 3A	Direct comparison manufacturer instructions for PTS 3.3	20 V-500 V (45Hz-400Hz)	0.013 V to 0.44 V	LCS Laboratory
		AC Power current generation 20 VAC-1000 VAC		100 mA-30 A (56Hz-400Hz)	0.59 mA to 0.027 A	
		DC Power voltage generation		20 V-1000 V	0.00068 V to 0.041 V	
		DC Power current generation		1 mA-30 A	0.0058 mA to 0.0034 A	
		Phase angle generation 20V-200V at 50Hz 3A-20A		0 $^{\circ}$ -180 $^{\circ}$	0.39 $^{\circ}$	

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22	Energy meters/Energy meter calibrators/ Power meters & analyzers	Generate energy , power to calibrate AC power / Energy meters and portable meter calibrators	LCS/TM/11	0.02 A-120A 46 V-480 V	1 phase- 0.44% 3 phase- 0.031%	LCS Laboratory
23	Clamp on meters of measuring current	Generation of current calibration of Torroidal wound coil type clamp on meters	LCS/TM/02	0.042 A- 1500 A 40 Hz-1kHz	0.00034 A to 7.6 A	LCS Laboratory
		Measurement of current calibration of Hall Effect type clam on meters			0.0006 A to 15 A	
24	Insulation resistance testers	Generation of insulation resistors	LCS/TM/01	100 k $\Omega$ - 100 G $\Omega$	0.03% to 1.2%	LCS Laboratory
		Open circuit voltage (measurement of voltage)		0.5 kV-9.8kV	0.0016 kV to 0.32 kV	
		Short circuit current (measurement of current)		0.5 mA-17 mA	0.0010 mA to 0.04 mA	
25	Non-contact Digital tachometer	Error of indication by direct comparison with a calibrated pulse	LCS/TM/06	240 rpm - 60000 rpm	0.6 rpm to 2.4 rpm	LCS Laboratory
26	Centrifuges/Rotating shafts/fan blades	Non-contact measurement of RPM using a calibrated digital tachometer	LCS/TM/20	240 rpm- 60000 rpm	0.7 rpm to 51 rpm	LCS Laboratory/Site
27	RH probe with indicator	Error of indication using saturated aqueous solutions	LCS/TM/16	11 %-85 % RH	5%	LCS
28	Enclosed areas	Measurement of % RH using calibrated % RH sensor	LCS/TM/17	5%-95%RH	5%	Site

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29	Water bath	Performance verification	LCS/TM/15	20 °C to 120°C	0.24 °C	LCS/Site
30	Furnace	Indication error by single point temperature	LCS/TM/19	200 °C to 1000 °C	2.8 °C to 3.0 °C	Site
31	Oven	Indication error by multipoint temperature measurement	LCS/TM/18	50°C to 200°C	1.1 °C to 2.0 °C	LCS/Site
32	Digital thermometer with probe	Measurement of indication error	LCS/TM/03-A	-20 °C to 1000 °C	0.37°C to 3°C	LCS/Site
33	IR Thermometer	Measurement of indication error using a blackbody	LCS/TM/10	25 °C to 500°C	0.5 °C to 2.2 °C	LCS
34	Temperature indicators intended to be used with thermocouples	Electrical simulation	LCS/TM/08	-250 °C to 2300 °C	0.26 °C to 1.1 °C	LCS
					0.37 °C to 2.7 °C	Site
35	Temperature indicators intended to be used with PRT/RTD	Electrical simulation	LCS/TM/08	-100 °C to 800 °C	0.029 °C to 0.094 °C	LCS
					0.19 °C to 0.45 °C	Site
36	Temperature simulators intended to be used with thermocouples	Electrical simulation 4- wire	LCS/TM/08	-250 °C to 2300 °C	0.26 °C to 1.2 °C	LCS
					0.50 °C to 2.0 °C	Site
37	Temperature simulators intended to be used with PRT/RTD	Electrical simulation 4- wire	LCS/TM/08	100 °C to 800 °C	0.026 °C to 0.094 °C	LCS
					0.13 °C to 0.33 °C	Site
		Electrical simulation 3- wire	LCS/TM/08	100 °C to 800 °C	0.25 °C to 0.40 °C	Site

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
38	Temperature enclosures cold rooms refrigerators freezers incubators mobile units warehouses	Thermal mapping using multiple data loggers	LCS/TM/12 Or Customer's protocol	-35 °C to 85 °C	0.5 °C	LCS/Site
39	Uniaxial force testing machine	Measurement of static force in compression	LCS/TM/21 ISO 7500-1:2015 Metallic materials – Calibration and verification of static uniaxial testing machine	0.21 kN to 45 kN	0.66 % to 0.042 %	Site/ LCS Laboratory
				250 kN to 2000 kN	0.30% to 0.24%	Site
40	Hydraulic pressure gauges	Measurement of static gauge pressure	LCS/TM/04	0 to 600 bar	0.05 bar to 0.09 bar	LCS
					0.05 bar to 0.09 bar	Site
41	Pneumatic pressure gauges	Measurement of static gauge pressure	LCS/TM/04	-0.95 bar to 0 bar	0.0023 bar to 0.0015 bar	LCS
					0.013 bar to 0.0015 bar	Site
				0 to 40 bar	0.0036 bar to 0.012 bar	LCS
					0.0039 bar to 0.020 bar	Site
42	Analytical balances/ Weighing scales	Performance verification	LCS/TM/09	0 mg to 200 g	0.000008 g to 0.00031 g	LCS
				0 g to 150000 g	0.000018 g to 30 g	Site
43	Block calibrators	Calibration of temperature block calibrators	LCS/TM/14	-20 °C to 140 °C	0.16 °C to 0.29 °C	LCS