

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



Valid from 14 September 2016
to 27 October 2018
Issued on 04 October 2016



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 Electro-Technical (Electricity Energy Meters and Digital Storage Oscilloscopes) and Mechanical (Balances) calibrations as per the calibration methods given in the schedule of accreditation.

The laboratory is accredited for the calibration as given page 02 onwards.

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
1.1	Calibration of Electricity Energy meter Parameter: Active energy (Single/three phase)	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	230 V , 0.5 A, 50 Hz, PF = 1, 3 phase 230 V , 0.5 A, 50 Hz, PF =1, 1 phase 230 V , 0.5 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 1 A, 50 Hz, PF = 1, 3 phase 230 V , 1 A, 50 Hz, PF = 1, 1 phase 230 V , 1 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 2 A, 50 Hz, PF = 1, 3 phase 230 V , 2 A, 50 Hz, PF = 1, 1 phase 230 V , 2 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 5 A, 50 Hz, PF = 1, 3 phase 230 V , 5 A, 50 Hz, PF = 1, 1 phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House
1.2	Calibration of Electricity Energy meter Parameter: Active energy (Single/three phase)	LCS/TM/11/Rev.0 (Based on Manufacturers Instruction manual)	230 V , 5 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 10 A, 50 Hz, PF = 1, 3 phase 230 V , 10 A, 50 Hz, PF = 1, 1 phase 230 V , 10 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 20 A, 50 Hz, PF = 1, 3 phase 230 V , 20 A, 50 Hz, PF = 1, 1 phase 230 V , 20 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 40 A, 50 Hz, PF = 1, 3 phase 230 V , 40 A, 50 Hz, PF = 1, 1 phase 230 V , 40 A, 50 Hz, PF = 0.5 , 3 phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
1.3	Calibration of Electricity Energy meter Parameter: Active energy (Single/three phase)	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	230 V , 50 A, 50 Hz, PF = 1, 3 phase 230 V , 50 A, 50 Hz, PF = 1, 1 phase 230 V , 50 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 60 A, 50 Hz, PF = 1, 3 phase 230 V , 60 A, 50 Hz, PF = 1, 1 phase 230 V , 60 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 80 A, 50 Hz, PF = 1, 3 phase 230 V , 80 A, 50 Hz, PF = 1, 1 phase 230 V , 80 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 100 A, 50 Hz, PF = 1, 3 phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House
1.4	Calibration of Electricity Energy meter Parameter: Active energy (Single/three phase)	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	230 V , 100 A, 50 Hz, PF = 1, 1 phase 230 V , 100 A, 50 Hz, PF = 0.5 , 3 phase 230 V , 120 A, 50 Hz, PF = 1, 3 phase 230 V , 120 A, 50 Hz, PF = 1, 1 phase 230 V , 120 A, 50 Hz, PF = 0.5 , 3 phase		0.68% 0.68% 0.68% 0.68% 0.68%	In-House

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
2.1	Calibration of Energy Meter calibrator Parameter: Active energy	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	V= 240 V, I= 0.02 A, f= 50 Hz, PF= 1, 3 Phase V= 240 V, I= 0.02 A, f= 50 Hz, PF= 1, 1 Phase V= 240 V, I= 0.02 A, f= 50 Hz, PF= 1, 3 Phase V= 240 V, I= 0.02 A, f= 50 Hz, PF= 0.8, 3 Phase V= 240 V, I= 0.02 A, f= 50 Hz, PF= 0.5, 3 Phase V= 240 V, I= 100 A, f= 50 Hz, PF= 1, 3 Phase V= 240 V, I= 100 A, f= 50 Hz, PF= 1, 1 Phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House
2.2	Calibration of Energy Meter calibrator Parameter: Active energy	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	V= 240 V, I= 100 A, f= 50 Hz, PF= 0.8, 3 Phase V= 240 V, I= 100 A, f= 50 Hz, PF= 0.5, 3 Phase V= 240 V, I= 1 A, f= 50 Hz, PF= 1, 3 Phase V= 30 V, I= 1 A, f= 50 Hz, PF= 1, 1 Phase V= 30 V, I= 1 A, f= 50 Hz, PF= 0.8, 3 Phase V= 30 V, I= 1 A, f= 50 Hz, PF= 0.5, 3 Phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
2.3	Calibration of Energy Meter calibrator Parameter: Active energy	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	V= 240 V, I= 1 A, f= 50 Hz, PF= 1, 3 Phase V= 240 V, I= 1 A, f= 50 Hz, PF= 1, 1 Phase V= 240 V, I= 1 A, f= 50 Hz, PF= 0.8, 3 Phase V= 240 V, I= 1 A, f= 50 Hz, PF= 0.5, 3 Phase V= 240 V, I= 1 A, f= 45 Hz, PF= 1, 3 Phase V= 240 V, I= 1 A, f= 45 Hz, PF= 1, 1 Phase V= 240 V, I= 1 A, f= 45 Hz, PF= 0.8, 1 Phase		0.68% 0.68% 0.68% 0.68% 0.68% 0.68%	In-House
2.4	Calibration of Energy Meter calibrator Parameter: Active energy	LCS/TM/11/Rev. 0 (Based on Manufacturers Instruction manual)	V= 240 V, I= 1 A, f= 45 Hz, PF= 0.5, 3 Phase V= 240 V, I= 1 A, f= 65 Hz, PF= 1, 3 Phase V= 240 V, I= 1 A, f= 65 Hz, PF= 1, 1 Phase V= 240 V, I= 1 A, f= 65 Hz, PF= 0.8, 3 Phase V= 240 V, I= 1 A, f= 65 Hz, PF= 0.5, 3 Phase		0.68% 0.68% 0.68% 0.68%	In-House

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
3.1	Oscilloscope Parameter : Verticle axis (Gain) & Horizontal axis(Time base)	LCS/TM/07/Rev .0 (Based on Calibration of Measuring Devices for Electrical Quantities Calibration of Oscilloscopes EURAMET cg-7 Version 1.0 (06/2011)	Time interval 80 nS 100 nS 800 nS 1000 nS 8 uS 10 uS 16 uS 20 uS 80 uS 100 uS 800 uS 1000 uS 8 mS 10 mS 40 mS 50 mS 160 mS 200 mS 400 mS 500 mS		0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	In-House
3.2	Oscilloscope Parameter : Verticle axis (Gain) & Horizontal axis (Time base)	LCS/TM/07/Rev .0 (Based on Calibration of Measuring Devices for Electrical Quantities Calibration of Oscilloscopes EURAMET cg-7 Version 1.0 (06/2011)	Peak to peak Voltage: 3 V 4 V 6 V 8 V 12 V 16 V 30 V 40 V 60 V 80V 120V 160V 300V 400V 600V 800V 1200V 1600V		0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 1.8% 1.8% 1.8% 1.8%	In-House

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (Approximately at 95% Confidence Level)	Location
3.3	Oscilloscope Parameter : Verticle axis(Gain) & Horizontal axis(Time base)	LCS/TM/07/Rev .0 Calibration of Measuring Devices for Electrical Quantities Calibration of Oscilloscopes EURAMET cg-7 Version 1.0 (06/2011)	Peak to peak Voltage: 600 mV 800 mV 1200 mV 1600 mV		1.80% 1.80% 1.80% 1.80%	In-House
4.1	Calibration of Balances	LCS/TM/09/Rev. 0 (Based on MSL Technical Guide 25, (Measurement Standard Laboratory of New Zealand)	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g		0.008 mg 0.008 mg 0.008 mg 0.008 mg 0.008 mg 0.009 mg 0.010 mg 0.012 mg 0.015 mg 0.018 mg 0.021 mg 0.028 mg 0.035 mg 0.045 mg 0.062 mg	Site
4.2	Calibration of Balances	LCS/TM/09/Rev.0 (Based on MSL Technical Guide 25, (Measurement Standard Laboratory of New Zealand)	100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 15 kg 20 kg		0.12 mg 0.22 mg 1.4 mg 3.3 mg 5.9 mg 16 mg 33 mg 50 mg 0.12 g	Site

Deputy Director
Sri Lanka Accreditation Board for Conformity Assessment