



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

LGB METROLOGY CALIBRATION LAB

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

6/16/13, KRISHNARAYAPURAM, GANAPATHY, COIMBATORE, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2208

Issue Date: 28/10/2022

Valid Until: 27/10/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : LGB METROLOGY CALIBRATION LAB

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	LGB METROLOGY CALIBRATION LAB, 6/16/13, KRISHNARAYAPURAM, GANAPATHY, COIMBATORE, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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Validity	28/10/2022 to 27/10/2024	Last Amended on	10/03/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	600 °C to 1200 °C	1.56°C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method.	-240 °C to 1000 °C	1.58°C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 600 °C	0.43°C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.57°C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.57°C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Pt 100 - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 750 °C	0.74°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	0 °C to 1200 °C	1.3°C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	0 °C to 1200 °C	1.31°C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-240 °C to 350 °C	0.93°C
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method.	10 s to 60 s	0.61 s
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	60 s to 14400 s	3.70s



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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	0-10mm Plunger Dial Gauge l.c. 0.01mm	Using Dial gauge calibrator by direct comparison method	0 to 10 mm	6.3µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Adjustable Snap Gauge	using gauge blocks set '0' grade by comparison method	3 mm to 100 mm	1.44µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission only)L.C.0.001mm	Using Dial gauge calibrator and Dial Gauge by direct comparison method	1.5 mm	2.65µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.0.01mm	using gauge blocks set '0' grade by comparison method	0 to 25 mm	4.71µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.:0.01mm	using gauge blocks set '0' grade by comparison method	0 to 10 mm	4.56µm



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17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Measuring System L.C.: 0.0001mm	Using Long Slip gauges and Gauge Block set ('0' Grade).	0 to 600 mm	4.38µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Measuring System L.C.: 0.0001mm (Linear)	Using Long Slip gauges and Gauge Block set ('0' Grade) by comparison method	0 to 600 mm	5.23µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Measuring System L.C.: 0.0001mm (Squareness)	Using Long Slip gauges and Gauge Block set ('0' Grade) by comparison method	0 to 600 mm	7.36µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech./ Digital) L.C.0.001mm	using gauge blocks set '0' grade by comparison method	50 mm to 300 mm	2.42µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer ,pin,point ,Blade,Ball and Disc(Mech./ Digital) L.C.0.001mm	using gauge blocks set '0' grade by comparison method	0 to 50 mm	1.03µm



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22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using calibrated micrometer L.C. 0.001mm by comparison method	0.05 mm to 1 mm	1.55µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Mech/Digital/Dial) L.C.:0.01mm	Using Gauge Block and Caliper Checker by comparison method	0 to 300 mm	9.62µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.0.001mm	Using Dial Gauge Tester by Comparison Method	0 to 0.14 mm	2.47µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.0.002mm	Using Dial Gauge Tester by comparison method	0 to 0.20 mm	2.52µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.0.01mm	Using Dial Gauge Calibrator by comparison Method	0 to 1.0 mm	4.46µm



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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Probe with Indicator L.C :0.001mm	Using Slip gauge with comparator stand by comparison method.	0 to 10 mm	5.89µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using digital micrometer L.C.0.0001mm by comparison method	0.5 mm to 20 mm	1.13µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	0.5 mm to 100 mm	1.04µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Setting Ring Gauge/Air Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	2 mm to 100 mm	1.02µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial 0.01mm resolution	Dial gauge calibrator by comparison method	-0.4 mm to 0.4 mm	3.81µm



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32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Digital/Analog) L.C :0.001mm	using Dial gauge Tester by comparison Method	0 to 12 mm	1.52µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C :0.001mm	Using Universal Length Measuring Machine by comparison Method.	0 to 50 mm	1.58µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial L.C.:0.001mm	using Dial Gauge Calibrator by comparison method	-0.08 mm to 0.08 mm	1.45µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper(Mech/Digital/Dial) L.C.:0.01 mm	Using Gauge Blocks & Caliper checker by comparison Method	0 to 300 mm	9.23µm
36	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure switch	Using Pressure calibrator as per DKD-R6-1 by comparison method	0 to 700 bar	0.13%rdg



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37	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure/Hydraulic Pressure Gauge	Using Pressure calibrator by comparison method as per DKD-R6 - 1	0 to 60 bar	0.55%rdg
38	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure/Hydraulic Pressure Gauge	Using Pressure calibrator by comparison method as per DKD-R6 - 1.	0 to 700 bar	0.13%rdg
39	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure/Pneumatic Pressure Gauge	Using Pressure calibrator by comparison method as per DKD-R6 - 1	0 to 20 bar	0.23%rdg
40	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure/Pneumatic Pressure Gauge	Using Pressure calibrator by comparison method as per DKD-R6 - 1	0 to 200 mbar	0.48%rdg
41	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure/Vacuum Pressure Gauge	Using Pressure calibrator by comparison method as per DKD-R6 - 1	0 to -550mmHg (0 to -666.612 m	5.87%rdg
42	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator	using multifunction calibrator with Dry block Bath with Master RTD sensor by comparison Method	-20 °C to 140 °C	0.34°C



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43	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using multifunctional calibrator with Dry block Bath with Master S type Thermocouple by comparison Method	150 °C to 1150 °C	3.6°C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	600 °C to 1200 °C	1.56°C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method.	-240 °C to 1000 °C	1.58°C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 600 °C	0.43°C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 1200 °C	0.57°C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 1300 °C	0.57°C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Pt 100 - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-200 °C to 750 °C	0.74°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	0 °C to 1200 °C	1.3°C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	0 °C to 1200 °C	1.31°C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Temperature Indicator	Using Multifunction Calibrator by Direct Method	-240 °C to 350 °C	0.93°C
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method.	10 s to 60 s	0.61 s
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison Method	60 s to 14400 s	3.70s



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12	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Brinell Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS 1500 :Part 2:2021.	10/3000 HBW	1.6%
13	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Brinell Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS 1500 (Part2):2021	5/750 HBW	1.72%
14	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS/HARDNESS/ROCKWELL hardness tester	Using Reference Hardness Block by Indirect Method as per IS1586:part2:2018	HRBW	1.28 HRBW
15	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Rockwell Hardness Testing Machine	Using Reference Hardness Block by Indirect Method as per IS1586:part2:2018.	HRA	0.54HRA
16	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Rockwell Hardness Testing Machine	Using Reference Hardness Block by Indirect Method as per IS1586:part2:2018	HRC	0.57HRC
17	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Superficial Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS1586:PART2:2018	HR15N	0.87HR15N



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18	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Vicker's Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS 1501:Part 2:2020	HV0.2kg	3.6%
19	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Vicker's Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS1501:Part 2:2020	HV0.3kg	4.89%
20	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Vicker's Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS 1501:Part 2 :2020	HV1.0kg	4.3%
21	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Vicker's Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS 1501:Part 2 :2020	HV10kg	1.7%
22	MECHANICAL-HARDNESS TESTING MACHINES	Hardness/Vicker's Hardness Testing Machine	Using Reference hardness Blocks by Indirect Method as per IS1501:Part 2:2020	HV5kg	2.2%



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23	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator	using multifunction calibrator with Dry block Bath with Master RTD sensor by comparison Method	-20 °C to 140 °C	0.34°C
24	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using multifunctional calibrator with Dry block Bath with Master S type Thermocouple by comparison Method	150 °C to 1150 °C	3.6°C

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.