National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4367	**Page No**	1 of 59
Validity	14/04/2025 to 28/12/2028	**Last Amended on**	-

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-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using Standard 6½ digit Multimeter by Direct Method	1 A to 10 A	0.17 % to 0.31 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using Standard 6½ digit Multimeter by Direct Method	100 µA to 100 mA	0.16 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using Standard 6½ digit Multimeter by Direct Method	100 mA to 1 A	0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using Standard 6½ digit Multimeter by Direct Method	30 µA to 100 µA	0.25 % to 0.16 %

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 2 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV Probe wit Digital Multimeter by Direct Method	1 kV to 30 kV	3.58 % to 3.82 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 kHz)	Using Standard 6½ digit Multimeter by Direct Method	100 V to 750 V	0.11 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using Standard 6½ digit Multimeter by Direct Method	100 V to 750 V	0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 10 kHz)	Using Standard 6½ digit Multimeter by Direct Method	1 V to 10 V	0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 10 kHz)	Using Standard 6½ digit Multimeter by Direct Method	10 V to 100 V	0.11 %

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Laboratory Name :	DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA
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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 10 kHz)	Using Standard 6½ digit Multimeter by Direct Method	100 mV to 1 V	0.12 % to 0.11 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using Standard 6½ digit Multimeter by Direct Method	1 mV to 100 mV	0.31 % to 0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct Method	180 µH to 1 H	5.78 % to 1.67 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 10 kHz)	Using Multi Product Calibrator by Direct Method	1.9 mA to 32 mA	0.59 % to 0.24 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 10 kHz)	Using Multi Product Calibrator by Direct Method	32 mA to 329 mA	0.24 % to 0.27 %

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 4 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 10 kHz)	Using Multi Product Calibrator by Direct Method	329 mA to 3 A	0.27 % to 3.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct	10 A to 20 A	0.26 % to 0.21 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 µA to 190 µA	0.29 % to 0.16 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct	190 µA to 329 µA	0.16 % to 0.09 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	329 µA to 1.9 mA	0.09 % to 0.59 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multi Product Calibrator by Direct Method	3 A to 10 A	2.93 % to 3.50 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 5 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multi Product Calibrator With Current coil by Direct Method	20 A to 1000 A	0.36 % to 0.17 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	300 V to 1000 V	0.04 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multi Product Calibrator by Direct Method	3 mV to 30 mV	0.27 % to 0.066 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multi Product Calibrator by Direct Method	30 V to 300 V	0.132 % to 0.04 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 100 kHz)	Using Multi Product Calibrator by Direct method	30 mV to 300 mV	0.066 % to 0.12 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 100 kHz)	Using Multi Product Calibrator by Direct Method	300 mV to 30 V	0.12 % to 0.13 %

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 6 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	Using Standard 6½ digit Multimeter by Direct Method	1 nF to 100 µF	5.80 % to 4.85 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital multimeter by Direct Method	1 kV to 30 kV	3.05 % to 3.5 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire & 4 Wire)	Using Standard 6½ digit Multimeter by Direct Method	1 ohm to 100 ohm	0.05 % to 0.02 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire & 4 Wire)	Using Standard 6½ digit Multimeter by Direct Method	100 ohm to 1 kohm	0.02 % to 0.12 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Standard 6½ digit Multimeter by Direct Method	1 kohm to 1 Mohm	0.12 % to 0.01 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Standard 6½ digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.01 % to 0.98 %

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 7 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Standard 6½ digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.013 % to 0.98 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Standard 6½ digit Multimeter by Direct Method	1 mV to 100 mV	0.09 % to 0.01 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Standard 6½ digit Multimeter by Direct Method	10 V to 100 V	0.003 % to 0.005 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Standard 6½ digit Multimeter by Direct Method	100 mV to 10 V	0.01 % to 0.003 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Standard 6½ digit Multimeter by Direct Method	100 V to 1000 V	0.005 % to 0.006 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Standard 6½ digit Multimeter by Direct Method	1 µA to 100 µA	1.06 % to 0.09 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 8 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Standard 6½ digit Multimeter by Direct Method	1 A to 10 A	0.082 % to 0.18 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Shunt and Digital Multimeter by V/R method	1 A to 150 A	0.74 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Standard 6½ digit Multimeter by Direct Method	100 µA to 100 mA	0.09 % to 0.06 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Standard 6½ digit Multimeter by Direct Method	100 mA to 1 A	0.06 % to 0.082 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Capacitance	Using Multi Product Calibrator by Direct Method	1 µF to 100 µF	0.31 % to 0.65 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Capacitance	Using Multi Product Calibrator by Direct Method	1 nF to 300 nF	1.97 % to 0.41 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 9 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Capacitance	Using Multi Product Calibrator by Direct Method	300 nF to 1 µF	0.41 % to 0.31 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Inductance	Using Decade inductance box by Direct Method	10 µH to 1 H	1.85 % to 1.19 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire / 4 wire)	Using Decade Resistance Box by Direct Method	1 ohm to 0.9 Gohm	0.24 % to 0.65 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi Product Calibrator by Direct Method	100 kohm to 100 Mohm	0.004 % to 0.06 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire / 4 wire)	Using Multi Product Calibrator by Direct	1 kohm to 100 kohm	0.01 % to 0.004 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire / 4 wire)	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.005 % to 0.01 %

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 10 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi Product Calibrator by Direct Method	100 Mohm to 1100 Mohm	0.067 % to 1.74 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire/ 4 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.129 % to 0.005 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	30 V to 1000 V	0.002 % to 0.002 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	300 mV to 30 V	0.003 % to 0.002 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	1 µA to 33 µA	2.42 % to 0.09 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	1.9 mA to 32 mA	0.016 % to 0.013 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 11 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator With Current coil by Direct Method	20 A to 1000 A	0.83 % to 0.02 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	3 A to 20 A	0.055 % to 0.01 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	32 mA to 329 mA	0.013 % to 0.013 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	329 mA to 3 A	0.013 % to 0.055 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Product Calibrator by Direct Method	33 µA to 1.9 mA	0.09 % to 0.016 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Time Period	Using Single Pole Timer by direct method	1 ms to 5 s	0.015 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 12 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude (Square wave signal at 50 ohm impedance)	Using Multiproduct Calibrator by direct method	5 mV to 2.5 V	0.6 % to 0.4 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude DC Signal @ 1 Mohm Impedance)	Using Multi Product Calibrator by Direct method	1.25 mV to 130 V	3.39 % to 0.08 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude Square Wave at 1 Mohm impedance)	Using Multi Product Calibrator by Direct Method	10 mV to 55 V	0.7 % to 0.18 %
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth 50 kHz to 600 MHz)	Using Multi Product Calibrator by Direct method	100 mV to 5.5 V	10.56 % to 7.36 %
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Maker)	Using Multi Product Calibrator by Direct Method	2 ns to 1 s	0.33 % to 0.59 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope(Amplitude DC signal at 50 ohm impedance)	Using Multiproduct Calibrator by direct method	2.49 mV to 6.6 V	1.31 % to 1.06 %

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 13 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi product Calibrator by Direct Method	850 °C to 1800 °C	2.23 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi product Calibrator by Direct Method	(-) 50 °C to 1000 °C	1.77 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.93 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1370 °C	0.47 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.47 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi product Calibrator by Direct Method	3 °C to 1750 °C	0.66 °C

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 14 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Multi Product Calibrator by Direct method	(-) 200 °C to 800 °C	0.44 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi product Calibrator by Direct Method	3 °C to 1750 °C	0.54 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.73 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi Product Calibrator by Direct Method	850 °C to 1800 °C	2.23 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.58 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 15 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.47 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi Product Calibrator by Direct Method	3 °C to 1750 °C	0.66 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.10 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi Product Calibrator by Direct Method	3 °C to 1750 °C	0.55 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.75 °C

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 16 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Standard 6½ digit Multimeter by Direct Method	3 Hz to 300 kHz	1.15 % to 0.012 %
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 9000 s	0.14 s to 1.11 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator by Direct Method	10 Hz to 2 MHz	0.06 % to 0.04 %
90	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (contact Type)	Using Digital tachometer & RPM source by comparison method:	> 1000 rpm to 8000 rpm	0.35 %
91	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (contact Type)	Using Digital tachometer & RPM source by comparison method	>100 rpm to 1000 rpm	0.24 %
92	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (contact Type)	Using Digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	15.56 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 17 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
93	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact Type)	Using Digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	13.2 %
94	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact Type)	Using Digital tachometer & RPM source by comparison method:	> 100 rpm to 1000 rpm	1.86 %
95	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact Type)	Using Digital tachometer & RPM source by comparison method	> 1000 rpm to 90000 rpm	1.27 %
96	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non contact Type)	Using Digital tachometer by comparison method:	> 100 rpm to 1000 rpm	1.86 %
97	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non contact Type)	Using Digital tachometer by comparison method	> 1000 rpm to 90000 rpm	1.27 %
98	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non contact Type)	Using Digital tachometer by comparison method	10 rpm to 100 rpm	13.2 %
99	MECHANICAL-ACCELERATION AND SPEED	RPM Source (contact Type)	Using Digital tachometer by comparison method:	> 1000 rpm to 8000 rpm	0.35 %
100	MECHANICAL-ACCELERATION AND SPEED	RPM Source (contact Type)	Using Digital tachometer by comparison method	>100 rpm to 1000 rpm	0.24 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 18 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
101	MECHANICAL-ACCELERATION AND SPEED	RPM Source (contact Type)	Using Digital tachometer by comparison method:	10 rpm to 100 rpm	15.56 %
102	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB @ 1 kHz	0.8 dB
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-Axiality)	Using Mandrel & Dial Gauge by comparison method	upto 500 mm	7.39 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle blocks	Using profile projector by comparison method	0 ° to 360 °	40 second of arc
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle graticule	Using profile peojector by comparison method	0 ° to 360 °	6 minutes of arc
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Coordinate measuring machine by comparison method	Upto 400 mm x 300 mm x 50	6.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 19 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Coordinate measuring machine by comparison method	upto 400 mm x 300 mm x 50	6.7 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Coordinating Measuring Machine by comparison method	Upto 400 mm x 300 mm x 50 mm	6.7 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using taper mandrel and Electronic dial by comparison method	0 to 500 mm	7.39 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C: 1')	Using Profile Projector by comparison method	0° to 360°	1.34 minute of Arc
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C: 0.001 mm)	Using Dial Calibration Tester & Electronic Comparator by comparison method	Transmission error up to 1.2 mm	2.4 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 20 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle (Flatness)	Using Coordinate measuring machine by comparison method	Upto 400 mm x 300 mm x 50 mm	6.7 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle (Parallelism)	Using Coordinate measuring machine by comparison method	Upto 400 mm x 300 mm x 50	6.7 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle (Sqaurenss)	Using Coordinate measuring machine by comparison method	Upto 400 mm x 300 mm x 50 mm	6.7 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (L.C: 0.01 mm)	Using length bar with end jaws by comparison method	0 to 2000 mm	19.9 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Dial/ Vernier/ Digital) (L.C: 0.01 mm)	Using Caliper Checker by comparison method	0 to 600 mm	12.2 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 21 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating roller Gauge (L.C: 0.1 µm)	Using Electronic Comparator, Slip Gauge Blocks and Foils by comparison method	Up to 1 mm	1.68 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness gauge (L.C: 1 µm)	Using Electronic Comparator, Slip Gauge Blocks and Foils by comparison method	>100 µm to 10 mm	4.4 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness Specimen/ Foil	Using Electronic comparator by comparison method	9 µm to 100 µm	1.13 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (Protractor, centrehead, square head)	Using Profile Projector by comparison method	0 ° to 180 °	1.0 minute of Arc
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using CMM by comparison method	0 to 500 mm	6.8 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 22 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Parallelism)	Using CMM by comparison method	0 to 500 mm	6.9 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Perpendicular)	Using CMM by comparison method	0 to 500 mm	6.05 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Crimping tool (angle, radius)	Using profile projector by comparison method	0° to 180°	6 minutes of arc
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Crimping Tool-Linear	using profile projector by comparison method	Upto 50 mm	7 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by Comparison Method	0.2 mm to 7.0 mm	12.6 minute of Arc

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 23 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using profile Projector by Comparison Method	0.2 mm to 7.0 mm	7.8 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Masters	Using Length Measuring Machine and cylinder master by comparison method	2 mm to 200 mm	1.6 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge Vernier/Digital (L.C: 0.01 mm/ 0.02 mm)	Using Slip gauge & Length Bars by Comparison Method	0 to 1000 mm	12 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Master	Using CMM by Comparison Method	0 to 600 mm	7.16 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C: 0.01 mm)	Using Slip Gauge block and optical flat by Comparison Method	0 to 25 mm	1.13 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 24 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauges (L.C: 0.01 mm)	Using slip gauges long slip gauges by Comparison Method	0 to 200 mm	5.98 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge(L.C: 0.01 mm)	Using Slip Gauges & Long Slip Gauges by Comparison Method	0 to 50 mm	7.6 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Caliper (L.C: 0.001 mm)	Using Slip Gauge blocks / Long slip gauges and setting ring gauge by Comparison Method	0 to 150 mm	4.8 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Parallelism)	Using Coordinate measuring machine by comparison method	upto 600 mm	7.92 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Squareness)	Using Coordinate measuring machine by comparison method	upto 600 mm	7.92 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 25 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Straightness)	Using Coordinate measuring machine by comparison method	upto 600 mm	7.92 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Try Square & Granite Square (Flatness)	Using Coordinating Measuring Machine by Comparison Method	0 to 600 mm	7.9 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Try Square & Granite Square (Parallelism)	Using Coordinating Measuring Machine by Comparison Method	0 to 600 mm	7.92 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using 0 Grade Gauge blocks & Length Bars by Comparison Method	0 to 300 mm	1.6 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge, Long Slip Gauge & Length Bars by Comparison Method	300 mm to 1500 mm	7.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 26 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Length Measuring Machine by Comparison Method	0.025 mm to 2 mm	0.6 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin / Depth Gauge	Using Slip Gauge & Electronic Comparator by Comparison Method	0.2 mm to 200 mm	3.2 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gap/Width Gauge	Using Slip Gauge & Electronic Comparator by Comparison Method	0.2 mm to 200 mm	3.9 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Flatness)	Using Coordinating Measuring Machine by Comparison Method	0 to 600 mm	7.92 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square Squareness	Using Coordinate measuring machine by comparison method	0 to 600 mm	7.92 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 27 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge (Internal / External)	Using Slip Gauges & Long Slip Gauges by Comparison Method	0 to 200 mm	11.9 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Guage (L.C: 0.1 µm)	Using Electronic Comparator, Slip Gauge Blocks and Foils by comparison method	Up to 1 mm	1.35 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial/Vernier/Digital) (L.C: 0.01 mm)	Using Slip Gauge & Length Bars by Comparison Method	0 to 1500 mm	17.6 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Measurement Stand (L.C. 0.1mm)	Using Length bars by Comparison Method	0 to 2000 mm	77 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer Digital/ Analog/ Dial (L.C: 1")	Using Precision Sprit Level, Slip gauge & Sine Bar by Comparison Method	0° to 180°	8.8 Second of Arc

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 28 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/ Stick Micrometer (L.C: 0.01 mm)	Using Slip Gauge/ Length Bars & Electronic Comparator by Comparison Method	5 mm to 1100 mm	15 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C: 1 µm)	Using Dial Calibration Tester by Comparison Method	0 to 2.5 mm	2.67 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges	Using CMM by Comparison Method	0 to 500 mm	6 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Angle)	Using CMM by Comparison Method	0 ° to 360 °	30 second of Arc
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle/ Limit Gauges/ PCD Gauge Geometrical error of (Flatness)	Using CMM by Comparison Method	0 to 500 mm	6 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 29 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle/ Limit Gauges/ PCD Gauge Geometrical error of (Perpendicularity)	Using CMM by Comparison Method	0 to 500 mm	6 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle/ Limit Gauges/ PCD Gauge Geometrical error of (parallelism)	Using CMM by Comparison Method	0 to 500 mm	6 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle/ Limit Gauges/ PCD Gauge Geometrical error of (Straightness)	Using CMM by Comparison Method	0 to 500 mm	6 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle/ Limit Gauges/ PCD Gauge Geometrical error of (symmetricity)	Using CMM by Comparison Method	0 to 500 mm	6 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Slip Gauge & Electronic Comparator by Comparison Method	0.17 mm to 20 mm	1.37 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 30 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C: 0.5 mm)	Using Digital Tape & Scale Measuring Device by Comparison Method	0 to 2 m	91.6 x sqrt(L) µm , where L is in mm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 0.5 mm)	Using tape and scale calibrator by comparison method	0 to 100 m	91 x sqrt(L), L in m where L in meter
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod	Using Length Bars & Electronic Comparator by Comparison Method	25 mm to 1500 mm	9.84 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel blocks (Parallelism)	Using Coordinating Measuring Machine by Comparison Method	0 to 1000 mm	10.8 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD Gauge	Using CMM by Comparison Method	20 mm to 200 mm	6.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 31 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape (L.C: 0.1 mm)	Using Digital Tape & Scale Measuring Device by Comparison Method	0 to 15 m	88 x sqrt (L) µm, where L in meter
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.01 mm)	Using Slip Gauges & Long Slip Gauges by Comparison Method	0 to 200 mm	7.6 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge & Electronic Comparator by Comparison Method	1 mm to 400 mm	4.84 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine and master ring by Comparison Method	100 mm to 400 mm	5.58 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine by Comparison Method	2 mm to 100 mm	1.50 µm

SCOPE OF ACCREDITATION

Laboratory Name :	DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4367
Validity	14/04/2025 to 28/12/2028

Last Amended on -

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)(±)
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge/Digital Dial Gauges (L.C: 0.1 µm)	Using Length Measuring Machine & Slip Gauge blocks by Comparison Method	0 to 100 mm	1.26 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	upto 50 mm	8.76 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/ Sine Centre	Using Coordinating Measuring Machine by Comparison Method	upto 600 mm	36 second of arc
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/ Sine Centre	Using Coordinating Measuring Machine by Comparison Method	Upto 600 mm	9.9 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories (Flatness)	Using Optical Flat and Electronic Comparator and Slip Gauge by Comparison Method	Upto 300 mm	0.72 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 33 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories (Parallelism)	Using Optical Flat and Electronic Comparator and Slip Gauge by Comparison Method	Upto 300 mm	3.9 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	Using Slip Gauge & Long Slip Gauge by Comparison Method	2 mm to 500 mm	4.65 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge	Using Length Measuring Machine by Comparison Method	5 mm to 200 mm	3.2 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge	Using Length Measuring Machine by Comparison Method	10 mm to 200 mm	4.8 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit level/ Block level (Perpendicularity)	Using Electronic Level, Tilting Table, Digital Indicator and Mandrel by Comparison Method	Upto 600 mm	4.06 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 34 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit level/ Block level I (Bubble Accuracy)	Using Electronic Level, Tilting Table, Digital Indicator and Mandrel by Comparison Method	Upto 600 mm	8.53 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit level/ Block level I (Flatness)	Using Electronic Level, Tilting Table, Digital Indicator and Mandrel by Comparison Method	Upto 600 mm	1.89 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Coordinating Measuring Machine by Comparison Method	0 to 1000 mm	10.8 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Paralleslism)	Using Coordinating Measuring Machine by Comparison Method	0 to 1000 mm	10.8 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Sprit Level/ Electronic level by Comparison Method	Upto 3000 mm x 3000 mm	1.27 x Sqrt {(L + B) / 150} µm, Where L & B are in mm

SCOPE OF ACCREDITATION

Laboratory Name :	DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4367
Validity	14/04/2025 to 28/12/2028

Last Amended on -

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)(±)
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Diameter)	Using Length Measuring Machine by Comparison Method	Upto 500 mm	5.6 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Taper angle)	Using Length Measuring Machine by Comparison Method	Upto 500 mm	1.23 minutes of Arc
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Diameter)	Using Length Measuring Machine by Comparison Method	Upto 300 mm	5.1 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Taper angle)	Using Length Measuring Machine by Comparison Method	Upto 300 mm	3.30 minute of Arc
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	0 to 200 mm	25.8 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 36 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Diameter)	Using Length Measuring Machine, Master Ring Gauge, Cylinders and measuring wires by Comparison Method	5 mm to 200 mm	2.9 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Taper angle)	Using Length Measuring Machine, Master Ring Gauge, Cylinders and measuring wires by Comparison Method	5 mm to 200 mm	41 second of Arc
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (effective diameter)	Using Length Measuring Machine, Master Ring Gauge, Cylinders and measuring wires by Comparison Method	5 mm to 200 mm	4.6 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (minor)	Using Length Measuring Machine, Master Ring Gauge, Cylinders and measuring wires by Comparison Method	5 mm to 200 mm	4.6 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (taper angle)	Using Length Measuring Machine, Master Ring Gauge, Cylinders and measuring wires by Comparison Method	5 mm to 200 mm	3.28 minute of Arc

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 37 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Total Runout)	Using Dial Gauges & Bench center by Comparison Method	0 to 600	4.9 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Variation Diameter)	Using Dial Gauges & Bench center by Comparison Method	0 to 600 mm	4.9 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	0.02 mm to 80 mm	6.66 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using Slip Gauge & Electronic Comparator by Comparison Method	0.17 mm to 6.35 mm	0.8 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Comparison Method	0.2 mm to 7.0 mm	50 Second of Arc

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 38 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using profile Projector by Comparison Method	0.2 mm to 7.0 mm	7.98 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective & major/ minor diameter)	Using Length Measuring Machine by Comparison Method	2 mm to 100 mm	2.4 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective and major/ minor diameter)	Using Length Measuring Machine by Comparison Method	>100 mm to 300 mm	3.29 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Diameter and Effective Diameter)	Using Length Measuring Machine by Comparison Method	3 mm to 300 mm	3.5 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer (L.C: 0.001 mm)	Using Setting Ring Gauges by Comparison Method	5 mm to 200 mm	5.55 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 39 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C: 0.01 mm)	Using Slip Gauge Blocks by Comparison Method	0 to 200 mm	11.3 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V anvil Micrometer	Using Pin Gauges and Measuring Cylinder by Comparison Method	0 to 50 mm	2.81 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using Mandrel & Electronic Height Gauge by Comparison Method	Upto 200 mm	7.5 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Perpendicularity)	Using Mandrel & Electronic Height Gauge by Comparison Method	Upto 200 mm	8 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using Mandrel & Electronic Height Gauge by Comparison Method	Upto 200 mm	7.2 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 40 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet film thickness guage (L.C: 0.1 µm)	Using Electronic Comparator, Slip Gauge Blocks and Foils by comparison method	1 µm to 3 mm	1.3 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wield Fillet / Auto Depth Gauge	Using Profile Projector by Comparison Method	0 to 200 mm	6.6 µm
214	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Electronic Height Gauge and Slip Gauges by Comparison method	0 to 600 mm	7.16 µm
215	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coating Thickness gauge (L.C: 0.1 µm)	Using Electronic Comparator, Slip Gauge Blocks and Foils by comparison method	9 µm to 100 µm	1.14 µm
216	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coordinating Measuring Machine (Length Measuring Error)	Using Long Slip Gauges, Length bars and Sphere by Comparison Method	0 to 2000 mm	{4.65 + 1.68 (L)} µm, Where L is in metre
217	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coordinating Measuring Machine (Probing Error, Scanning Probing Error)	Using Long Slip Gauges & Length bars and Sphere by Comparison method	0 to 2000 mm	0.6 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 41 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
218	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (LC: 0.0001 mm)	Using Gauge Block & Electronic Comparator by Comparison method	0 to 50 mm	1.96 µm
219	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - squareness (L.C: 0.1 µm)	using Precision square by comparison method	0 to 600 mm	10.2 µm
220	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge-Linearity (L.C: 0.1 µm)	Using Long Slip Gauge Block, Length Bars by Comparison method	0 to 1000 mm	7 µm
221	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C: 5 µm)	By using Electronic Level and Tilting table and electronic comparator by Comparison method	0 to 2 mm/m	0.0069 mm/m
222	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe With DRO/ LVDT, Electronic Dial (L.C: 0.0001 mm)	Using K Grade Slip Gauges by Comparison method	0 to 100 mm	0.70 µm
223	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Dia Measuring Machine (L.C: 0.1 µm) (Alignment of center to base fcdm)	Using Gauge Blocks, Mandrel & Electronic Height Gauge by Comparison method	0 to 100 mm	4.16 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 42 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
224	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Dia Measuring Machine (L.C: 0.1 µm) (Micrometer head)	Using Gauge Blocks, Mandrel & Electronic Height Gauge by Comparison method:	0 to 100 mm	0.96 µm
225	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Dia Measuring Machine (L.C: 0.1 µm) (overall accuracy fcdm)	Using Gauge Blocks, Mandrel & Electronic Height Gauge by Comparison method:	0 to 100 mm	1.61 µm
226	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Length Measuring Machine by Comparison method	125 mm to 500 mm	4.66 µm
227	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauges	Using Length Measuring Machine by Comparison method	125 mm to 500 mm	4.66 µm
228	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C: 0.0001 mm)	Using Gauge Block & Electronic Comparator by Comparison method	0 to 50 mm	1.96 µm
229	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Portable Surface Roughness Tester - Ra	Using Surface Roughness Specimens by Comparison Method	Up to 6 µm	6.3 %
230	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /VMM (Magnification)	Using Glass Scales by Comparison method	10 x to 100 x	0.7 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 43 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
231	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angular)	Using Angular Glass Scale by Comparison method	0 ° to 360 °	36 "
232	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear)	Using Linear Glass Scale by Comparison method	0 to 300 mm	7.72 µm
233	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Upto K grade)	Using Gauge Block Calibrator & K Grade Slip Gauges by comparison method	0.5 to 25 mm	0.15 µm
234	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Upto K grade)	Using Gauge Block Calibrator & K Grade Slip Gauges. by Comparison method	25 mm to 50 mm	0.18 µm
235	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Upto K grade)	Using Gauge Block Calibrator & K Grade Slip Gauges.by Comparison method	50 mm to 75 mm	0.21 µm
236	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Upto K grade)	Using Gauge Block Calibrator & K Grade Slip Gauges.by Comparison method	75 mm to 100 mm	0.31 µm
237	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen - Ra	Using Stand Alone Roughness Tester by Comparison Method	0.05 µm to 6 µm	6.34 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 44 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
238	MECHANICAL-DUROMETER	Durometers (Shore A, B, E, O)	Using Shore Hardness Calibrator by comparison method as per ASTM D2240-15 2021	0 to 100 Shore	0.6 Shore
239	MECHANICAL-DUROMETER	Durometers (Shore C, D, DO)	Using Shore Hardness Calibrator by comparison method as per ASTM D2240-15 2021	0 to 100 Shore	1.0 Shore
240	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge/ Force Gauge	Using Slotted Standard Weights by comparison method as Per VDI/VDE 2624 Part 2 2008	0.5 N to 2000 N	0.31 %
241	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (gauge, Switches, sensors, transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator, Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 70 bar	0.05 bar

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 45 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
242	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (gauge, Switches, sensors, transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump by Comparison Method as per DKD-R- 6-1	0 to 700 bar	0.38 bar
243	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	100 bar to 1000 bar	0.46 % rdg.
244	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Switch, Pressure Sensor, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 2200 bar	0.46 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 46 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
245	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 40 bar	0.022 bar
246	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	(-) 0.95 bar to 0	1.32 %
247	MECHANICAL-TORQUE GENERATING DEVICES	Torque Multiplier	Using Digital Torque Wrench Sensor With Indicator By Comparison Method	50 Nm to 5000 Nm	0.90 %
248	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench /Torque Screw Drivers (Type-I, Class- A,B,C,D,E / Type-II Class-A,B,C,D,E,F,G)	Using Digital Torque Wrench Sensor With Indicator by comparison method As per ISO 6789:2017	0.01 Nm to 3000 Nm	1.04 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 47 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
249	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducer with Indicator, Torque Meter, Torque Tester (a) Class 0.5 & Coarser	Using Dead Weight Torque Calibration System consisting of Pulley and Aluminum Dead weights as per BS 7882: 2008	0.05 Nm to 5 Nm	0.06 %
250	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducer with Indicator, Torque Meter, Torque Tester (b) Class 0.2 & Coarser	Using Dead Weight Torque Calibration System consisting of Lever Arm and Stainless steel / Aluminium Dead weights. As per BS 7882: 2008	5 Nm to 2000 Nm	0.05 %
251	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1 g)	Using E2 and F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 20 kg	67.59 mg
252	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1 mg)	Using E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 220 g	0.751 mg
253	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using E1, E2 and F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 50 kg	18.8 g

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 48 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
254	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 50 g)	Using F1 and M1 Class Weights by Comparison Method as per OIML R-76-1	0 to 300 kg	95 g
255	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.1 mg and coarser)	Using Standard weights of class E1 as per OIML R 76-1	1 mg to 220 g	0.107 mg
256	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Environmental Chambers, Humidity Chambers, Humidity Generators	Using Temperature/Humidity Data Logger (minimum 9 sensor) by Comparison Method	30 % rh to 93 % rh @ 25 °C	1.9 % rh
257	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Sensors with indicator, Thermo Hygrometers, Data Logger/Recorder (single position)	Using Digital Hygrometer, Humidity Generator by Comparison Method	20 % rh to 95 % rh @ 25 °C	1.9 % rh
258	THERMAL-TEMPERATURE	IR Thermometer (Non-Contact Type) Radiation Thermometer	Standard IR Thermometer & Black body Source (emissivity of 0.96) by Comparison Method	50 °C to 1200 °C	4.74 °C

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 49 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
259	THERMAL-TEMPERATURE	Liquid in Glass thermometers	Using 3 wire RTD with precision digital Thermometer, Oil Bath by Comparison Method	30 °C to 200 °C	1.8 °C
260	THERMAL-TEMPERATURE	RTDs, Thermocouples (with/without indicators), Data Loggers, Recorders Transmitters, Digital Thermometers	Using 4 wire RTD with high precision digital Thermometer low, 6½ digit Multimeter, temperature bath by Comparison Method	(-) 80 °C to 250 °C	1.2 °C
261	THERMAL-TEMPERATURE	RTDs, Thermocouples (with/without indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers	Using 4 wire RTD with temperature calibrator, 6½ digit Multimeter, Liquid nitrogen Bath by Comparison Method	(-) 196 °C	0.51 °C
262	THERMAL-TEMPERATURE	Thermocouples (with/without indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers	Using Standard Stype Thermocouple With Portable Calibrator 6½ digit Multimeter & Dry Block By Comparison Method	250 °C to 1200 °C	2.86 °C
263	THERMAL-TEMPERATURE	Thermometers (Glass/ Digital/ dial/ Temperature Meter)	Using Standard temperature sensor with Indicator, Liquid bath By comparison method	(-) 5 °C to 50 °C	0.8 °C

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 50 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV Probe wit Digital Multimeter by Direct Method	1 kV to 30 kV	3.58 % to 3.82 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Direct Current	Using Shunt and Digital Multimeter by V/R method	1 A to 150 A	0.74 %
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-type Thermocouple	Using Portable Calibrator by Direct Method	(-) 50 °C to 850 °C	1.77 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-type Thermocouple	Using Portable Calibrator by Direct Method	(-) 100 °C to 1340 °C	1.53 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-type Thermocouple	Using Portable Calibrator by Direct Method	(-) 110 °C to 1200 °C	1.81 °C

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 51 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-type Thermocouple	Using Portable Calibrator by Direct Method	150 °C to 1750 °C	2.32 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100) type	Using Portable Calibrator by Direct Method	(-) 200 °C to 800 °C	0.99 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Portable Calibrator by Direct Method	170 °C to 1750 °C	2.10 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 100 °C to 400 °C	1.45 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.73 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.93 °C

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 52 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 200 °C to 1340 °C	1.17 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 190 °C to 1300 °C	1.19 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Portable Calibrator by Direct Method	150 °C to 1750 °C	1.73 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) type	Using Portable Calibrator by Direct Method	(-) 200 °C to 800 °C	0.98 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Portable Calibrator by Direct Method	170 °C to 1750 °C	1.73 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Portable Calibrator by Direct Method	(-) 200 °C to 400 °C	0.75 °C

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 53 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source,Measure)	B-type Thermocouple	Using Portable Calibrator by Direct Method	850 °C to 1800 °C	2.23 °C to 1.98 °C
19	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source	Using Digital Tachometer By Comparison Method	10 rpm to 20000 rpm	0.60 %
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-Axiality)	Using Mandrel & Dial Gauge by comparison method	upto 500 mm	7.39 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using taper mandrel and Electronic dial by comparison method	0 to 500 mm	7.39 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Measurement Stand (L.C. 0.1mm)	Using Length bars by Comparison Method	0 to 2000 mm	77 µm

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 54 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Sprit Level/ Electronic level by Comparison Method	Upto 3000 mm x 3000 mm	1.27 x Sqrt {(L + B) / 150} µm, Where L & B are in mm
24	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coordinating Measuring Machine (Length Measuring Error)	Using Long Slip Gauges, Length bars and Sphere by Comparison Method	0 to 2000 mm	{4.65 + 1.68 (L)} µm, Where L is in metre
25	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coordinating Measuring Machine (Probing Error, Scanning Probing Error)	Using Long Slip Gauges & Length bars and Sphere by Comparison method	0 to 2000 mm	0.6 µm
26	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - squareness (L.C: 0.1 µm)	using Precision square by comparison method	0 to 600 mm	10.2 µm
27	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge-Linearity (L.C: 0.1 µm)	Using Long Slip Gauge Block, Length Bars by Comparison method	0 to 1000 mm	7 µm
28	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Portable Surface Roughness Tester - Ra	Using Surface Roughness Specimens by Comparison Method	Up to 6 µm	6.3 %

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 55 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
29	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /VMM (Magnification)	Using Glass Scales by Comparison method	10 x to 100 x	0.7 %
30	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angular)	Using Angular Glass Scale by Comparison method	0 ° to 360 °	36 "
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear)	Using Linear Glass Scale by Comparison method	0 to 300 mm	7.72 µm
32	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using HBW Hardness Blocks by indirect method As per ISO 6506-2:2017 and IS 1500-2:2021	10/3000 HBW	1.58 %
33	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using HBW Hardness Blocks by indirect method As per ISO 6506-2:2017 and IS 1500-2:2021	5/750 HBW	1.78 %
34	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using HRC Hardness Blocks by indirect method As per IS 1586-2.2018 and ISO 6508-2:2015	20 HRC to 70 HRC	1.04 HRC

SCOPE OF ACCREDITATION

Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 56 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
35	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using HRWB Hardness Blocks As per By Indirect Method IS 1586-2.2018 and ISO 6508-2:2015	HRBW to	1.3 HRBW
36	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using HV Hardness Blocks by indirect method As per IS 6507-2: 2018 and IS 1501-2: 2020	30 HV	2.2 HV
37	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (gauge, Switches, sensors, transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator, Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 70 bar	0.05 bar
38	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (gauge, Switches, sensors, transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump by Comparison Method as per DKD-R- 6-1	0 to 700 bar	0.38 bar

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 57 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
39	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic - Pressure (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	100 bar to 1000 bar	0.46 % rdg.
40	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Analog / Digital Pressure Gauge, Pressure Switch, Pressure Sensor, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 2200 bar	0.46 %
41	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	0 to 40 bar	0.022 bar

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 58 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
42	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Switches, Sensors, Transducers)	Using Digital Pressure Indicators, 6½ digit Multimeter & Loop Calibrator & Pressure Comparator pump By Comparison Method As per DKD-R- 6-1	(-) 0.95 bar to 0	1.32 %
43	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells With Indicators by comparison method as per IS 1828 (Part I): 2015	1 kN to 1000 kN	1.08 %
44	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tension Mode)	Using Load Cells With Indicators by comparison method as per IS 1828 (Part I): 2022	500 N to 50 kN	0.8 %
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.1 mg and coarser)	Using Standard weights of class E1 as per OIML R 76-1	1 mg to 220 g	0.107 mg
46	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Environmental Chambers, Humidity Chambers, Humidity Generators	Using Temperature/Humidity Data Logger (minimum 9 sensor) by Comparison Method	30 % rh to 93 % rh @ 25 °C	1.9 % rh

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Laboratory Name : DYNAMIC CALIBRATION SYSTEMS PRIVATE LIMITED, PLOT NO. 63, FIRST CROSS STREET, AUDCO NAGAR, KATTUPAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4367 **Page No** 59 of 59

Validity 14/04/2025 to 28/12/2028 **Last Amended on** -

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)(±)
47	THERMAL-TEMPERATURE	Indicator with sensor of Environmental Chamber, Deep Freezers, Dry block bath, Liquid bath, BOD Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard RTD (Pt 100) with Temperature Indicator by Comparison Method	(-) 80 °C to 30 °C	0.8 °C
48	THERMAL-TEMPERATURE	Indicator with sensor of Environmental Chamber, Furnace, Oven, Dry block bath, Liquid bath, Vacuum Oven, BOD Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard RTD (Pt 100) with Temperature Indicator by Comparison Method	30 °C to 300 °C	1.5 °C
49	THERMAL-TEMPERATURE	Indicator with sensor of Furnace, Oven, Dry block bath (Single Position)	Using Standard S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	2.66 °C
50	THERMAL-TEMPERATURE	Indicator with sensor of Furnace, Oven, Dry block bath, Oil bath (Single Position)	Using Standard S Type Thermocouple with Temperature Indicator by Comparison Method	200 °C to 400 °C	2.55 °C

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