FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

CERTIFICATE OF ACCREDITATION

(AS PER ISO/IEC 17025:2017)

This is to attest that

M/s QUALITY CALIBRATION TESTING SOLUTIONS

Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for calibration laboratories.

Certificate Number: CL-121

Issue Date: 01.04.2024 **Valid Until:** 31.03.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www. fdasindia.org).

DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 121)

Laboratory Name: M/s Quality Calibration Testing Solutions
Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

Validity 01.04.2024 to 31.03.2026 Amended on ……

Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Alternating Current (Measure Mode)				
1	AC Current@50Hz	Using 6½ Digital Multi-meter by Direct method:	100 µA to 10 A	2.05 % to 0.25%
2	AC Current @ 50 Hz	Energy Data Logger by Direct Method	10 A to 1000 A	2.1 % to 1.89 %
3	AC Voltage @50Hz	Using 6½ DMM, Direct method	5 mV to 1000V	1.88 % to 0.11 %
4	Capacitance @ 1kHz	Using LCR Meter, Direct method	1 nF to 100 µF	5.4 % to 4.95 %
Alternating Current (Source Mode)				
1	AC Voltage @50 Hz	Using Multi-function calibrator, Direct method	200mV to1000V	0.26 % to 0.20 %
2	AC Voltage @50 Hz	Using Multi-function calibrator, Direct method	5 mV to 200 mV	1.02 % to 0.26 %
3	Capacitance @ 1kHz	Using Decade Capacitance box, direct method	100 pF to 100µF	1.16 %
4	Inductance @ 1kHz	Using Decade Inductance Box,Direct method	100 µH to 10 H	2.3 % to 2.5 %
5	AC Current@50Hz	Using Multi-function calibrator, Direct method	0.3 mA to 20 mA	0.50 % to 0.36 %
6	AC Current @50Hz	Using Multi-function calibrator with current coil, Direct method	10 A to 1000 A	1.72 % to 1.79 %

Dealing Officer

SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 121)

Laboratory Name: M/s Quality Calibration Testing Solutions
Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

Validity 01.04.2024 to 31.03.2026 Amended on ……

Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
7	AC Current @50Hz	Using Multi-function calibrator with current coil, Direct method:	20 mA to 10 A	0.36 % to 0.62 %
Direct Current (Measure Mode)				
1	DC Voltage	Using 6½ DMM, Direct method	10 V to 1000 V	0.004% to0.006%
2	DC Voltage	Using 6½ DMM, Direct method	1 mV to 10 V	0.5 % to 0.005 %
3	DC Current	Using 6½ DMM, Direct method	100 µA to 10 A	0.91 % to 0.19 %
4	Resistance	Using 6½ DMM, Direct method	1 Mega ohm to 100 Mega ohm	0.034 % to 0.95%
5	Resistance	Using 6½ DMM, Direct method	1 ohm to 1 Mega ohm	0.38 % to 0.035%
6	Resistance	Using 6½ DMM, Direct method	100 Mega ohm to 1000 Mega ohm	0.95 % to 2.32 %
7	Low Resistance	Using 6½ DMM, Direct method	1 milliohm	2.23%
8	Low Resistance	Using 6½ DMM, Direct method	10 milli ohm	1.92%
9	Low Resistance	Using 6½ DMM, Direct method	100 milli ohm	1.82%
Direct Current (Source Mode)				
1	DC Current	Using Multi-function calibrator, Direct method	0.1 mA to 20mA	0.24 % to 0.18 %

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	DC Current	Using Multi-function calibrator with current coil, Direct method	10 A to 1000 A	0.14 % to 0.17 %
3	DC Current	Using Multi-function calibrator, Direct method	20 mA to 10 A	0.18 % to 0.15 %
4	DC Voltage	Using Multi-function calibrator, Direct method	1 mV to 200 mV	2.1 % to 0.19 %
5	DC Voltage	Using Multi-function calibrator, Direct method	200mV to1000V	0.19 % to 0.17 %
6	Low Resistance	Using Standard Resistance Box, Direct method	1 milliohm	2.23 %
7	Low Resistance	Using Standard Resistance Box, Direct method	10 milli ohm	2.34 %
8	Low Resistance	Using Standard Resistance Box, Direct method	100 milli ohm	2.39 %
9	Resistance	Using Resistance box, direct method	1 kilo ohm to 100 kilo ohm	0.048 % to 0.028 %
10	Resistance	Using Resistance box, direct method	1 ohm to 10 ohm	2.65 % to 0.22 %
11	Resistance	Using Resistance box, direct method	10 Mega ohm to 100 Mega ohm	0.295 % to 0.17 %
12	Resistance	Using Resistance box, direct method	10 ohm to 1000 ohm	0.22 % to 0.048 %
13	Resistance	Using Resistance box, direct method	100 kilo ohm to 10 Mega ohm	0.19 % to 0.295 %

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
14	Resistance	Using Resistance box, direct method	100Megaohm to 1000 Mega ohm	0.17 % to 0.79 %
Temperature Simulation Measure Mode				
1	Temperature Simulation (Indicator/controller/Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.07°C
2	Temperature Simulation (Indicator/controller/Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.088°C
3	Temperature Simulation (Indicator/controller/Recorder), 'J' Type	Using universal Calibrator, direct method	-200 °C to 760 °C	1.78°C
4	Temperature Simulation (Indicator/controller/Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	3.49°C
5	Temperature Simulation (Indicator/controller/Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.53°C

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Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
6	Temperature Simulation (Indicator/controller/Recorder), 'R' Type	Using universal Calibrator, direct method	200 °C to 1600 °C	3.10°C
7	Temperature Simulation (Indicator/controller/Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.90°C
8	Temperature Simulation (Indicator/controller/ Recorder), 'T' Type	Using universal Calibrator, direct method	-160 °C to 400 °C	1.52°C
Temperature Simulation Source Mode				
1	Temperature Simulation (Indicator/controller/Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.36°C
2	Temperature Simulation (Indicator/controller/Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.37°C
3	Temperature Simulation	Using universal Calibrator, direct method	-200 °C to 760 °C	1.13°C

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Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Indicator/controller/Recorder), 'J' Type			
4	Temperature Simulation (Indicator/controller/Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	1.43°C
5	Temperature Simulation (Indicator/controller/Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.18 °C
6	Temperature Simulation (Indicator/controller/Recorder), 'R' Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.45°C
7	Temperature Simulation (Indicator/controller/Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.83°C
8	Temperature Simulation (Indicator/controller/Recorder), 'T' Type	Using universal Calibrator, direct method	-160 °C to 400 °C	1.21°C
Time & Frequency Measure Mode				

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Electro-Technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
1	Frequency	Using 6½ DMM, Direct method	10 Hz to 1 MHz	0.151 % to 0.012 %
2	Timer/ Stop Watch (Digital/Analog)	Using Digital Timer, Direct/comparison method	100ms to 86400 s	0.01 To 2.77s
Frequency Source Mode				
1	Frequency	Using Multifunction Calibrator, Direct method	45 Hz to 1000 Hz	0.292 % to 0.28 %

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Alternating Current (Measure Mode)				
1	AC Current@50Hz	Using 6½ Digital Multi-meter by Direct method:	100 µAto 10 A	2.05 % to 0.25 %
2	AC Current @ 50 Hz	Energy Data Logger by Direct Method	10 A to 1000 A	2.1 % to 1.89 %
3	AC Voltage @50Hz	Using 6½ DMM, Direct method	5 mV to 1000V	1.88 % to 0.11 %
4	Active Power (220 V to 600 V, 1 A to 20 A, ±0.5 to 1,50Hz)	Energy Data Logger by Direct Method	10 Wh to 5000 Wh	3.06 % to 1.65 %
5	Capacitance @ 1kHz	Using LCR Meter, Direct method	1 nF to 100 µF	5.4 % to 4.95 %
6	AC Power energy Single/ three phase Active P.F 1 to 0.5 (lag/lead) @ 50 Hz, 63.5 V to 300 V, 1A to 120 A	Using Fluke Energy Logger, Direct method:	0.5 kW to 41 kW	1.80% to 1.65%
7	Power Factor@50 Hz	Using Fluke Energy Logger, Direct method	0.1 lag/lead to 1.0 lag/lead	0.008PF
8	AC High Voltage	Using HV Probe with DMM by Comparison	1 kVAC to 28 kVAC	2.69%
9	AC High Voltage	H.V. Divider with DMM by Direct Method:	10 kVAC to 100 kVAC	2.83%

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Alternating Current (Source Mode)				
1	AC Voltage @50 Hz	Using Multi-function calibrator, Direct method	200mV to1000V	0.26 % to 0.20 %
2	AC Voltage @50 Hz	Using Multi-function calibrator, Direct method	5 mV to 200 mV	1.02 % to 0.26 %
3	Capacitance @ 1kHz	Using Decade Capacitance box, direct method	100 pF to 100nF	1.16 %
4	Capacitance @ 100Hz	Using Decade Capacitance box, direct method	1000nF to 100µF	1.3 %
5	Inductance @ 1kHz	Using Decade Inductance Box, Direct method	100 µH to 10 H	2.3 % to 2.5 %
6	AC Current	Using Multi-function calibrator, Direct method	0.3 mA to 20 mA	0.50 % to 0.36 %
7	AC Current @50Hz	Using Multi-function calibrator with current coil, Direct method	10 A to 1000 A	1.72 % to 1.79 %
8	AC Current @50Hz	Using Multi-function calibrator with current coil, Direct method	20 mA to 10 A	0.36 % to 0.62 %
9	Dissipation Factor / Tan Delta (Absolute Value), Capacitance Value 100pF@ 50 Hz, upto 10kV	Using Standard Gas Filled Capacitor with Dissipation Boxes by Direct Method	0.00001 to 0.05 tan delta	0.0006 tan delta

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Direct Current (Measure Mode)				
1	DC Voltage	Using 6½ DMM, Direct method	10 V to 1000 V	0.004% to0.008%
2	DC Voltage	Using 6½ DMM, Direct method	1 mV to 10 V	0.5 % to 0.005 %
3	DC Current	Using 6½ DMM, Direct method	100 µA to 10 A	0.91 % to 0.19 %
4	Resistance	Using 6½ DMM, Direct method	1 Mega ohm to 100 Mega ohm	0.034 % to 0.95%
5	Resistance	Using 6½ DMM, Direct method	1 ohm to 1 Mega ohm	0.38 % to 0.035%
6	Resistance	Using 6½ DMM, Direct method	100 Mega ohm to 1000 Mega ohm	0.95 % to 2.32 %
7	DC High Voltage	Using HV Probe with DMM by Comparison method:	1 kV to 30 kV	0.6%
8	DC High Voltage	H.V. Divider with DMM by Direct Method:	10 kV to 100 kV	2.83%
Direct Current (Source Mode)				
1	DC Current	Using Multi-function calibrator, Direct method	0.1 mA to 20mA	0.24 % to 0.18 %
2	DC Current	Using Multi-function calibrator with current coil, Direct method	10 A to 1000 A	0.14 % to 0.17 %
3	DC Current	Using Multi-function calibrator, Direct method	20 mA to 10 A	0.18 % to 0.15 %

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
4	DC Voltage	Using Multi-function calibrator, Direct method	1 mV to 200 mV	2.1 % to 0.19 %
5	DC Voltage	Using Multi-function calibrator, Direct method	200mV to1000V	0.19 % to 0.17 %
6	Low Resistance	Using Standard Resistance Box, Direct method	1 milliohm	2.23 %
7	Low Resistance	Using Standard Resistance Box, Direct method	10 milli ohm	1.92 %
8	Low Resistance	Using Standard Resistance Box, Direct method	100 milli ohm	2.34 %
9	Resistance	Using Resistance box, direct method	1 kilo ohm to 100 kilo ohm	0.048 % to 0.028 %
10	Resistance	Using Resistance box, direct method	1 ohm to 10 ohm	2.65 % to 0.22 %
11	Resistance	Using Resistance box, direct method	10 Mega ohm to 100 Mega ohm	0.295 % to 0.17 %
12	Resistance	Using Resistance box, direct method	10 ohm to 1000 ohm	0.22 % to 0.048 %
13	Resistance	Using Resistance box, direct method	100 kilo ohm to 10 Mega ohm	0.19 % to 0.295 %
14	Resistance	Using Resistance box, direct method	100Megaohm to 1000 Mega ohm	0.17 % to 0.79 %

Temperature Simulation Measure Mode

Dealing Officer

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
1	Temperature Simulation (Indicator/controller/ Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.07°C
2	Temperature Simulation (Indicator/controller/ Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.088°C
3	Temperature Simulation (Indicator/controller/ Recorder), 'J' Type	Using universal Calibrator, direct method	-200 °C to 760 °C	1.78°C
4	Temperature Simulation (Indicator/controller/ Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	3.49°C
5	Temperature Simulation (Indicator/controller/Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.53°C
6	Temperature Simulation	Using universal Calibrator, direct method	200 °C to 1600 °C	3.10°C

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Indicator/controller/ Recorder), 'R' Type			
7	Temperature Simulation (Indicator/controller/ Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.90°C
8	Temperature Simulation (Indicator/controller/ Recorder), 'T' Type	Using universal Calibrator, direct method	-160 °C to 400 °C	1.52°C
Temperature Simulation Source Mode				
1	Temperature Simulation (Indicator/controller/ Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.36°C
2	Temperature Simulation (Indicator/controller/ Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.37°C
3	Temperature Simulation	Using universal Calibrator, direct method	-200 °C to 760 °C	1.13°C

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Indicator/controller/ Recorder), 'J' Type			
4	Temperature Simulation (Indicator/controller/ Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	1.43°C
5	Temperature Simulation (Indicator/controller/ Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.22 °C
6	Temperature Simulation (Indicator/controller/ Recorder), 'R' Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.45°C
7	Temperature Simulation (Indicator/controller/ Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.83°C
8	Temperature Simulation	Using universal Calibrator, direct method	-160 °C to 400 °C	1.21°C

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Indicator/controller/ Recorder), 'T' Type			
Time & Frequency Measure Mode				
1	Frequency	Using 6½ DMM, Direct method	10 Hz to 1 MHz	0.151 % to 0.012 %
2	Timer/ Stop Watch (Digital/Analog)	Using Digital Timer, Direct/comparison method	100ms to 86400 s	0.01 s to 2.78s
Frequency Source Mode				
1	Frequency	Using Multifunction Calibrator, Direct method	45 Hz to 1000 Hz	0.292 % to 0.28 %

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
ACCELERATION AND SPEED				
1	Non-Contact Type RPM Stroboscope / Pulse Engine Tachometer, Digital Tachometer, Speed Sensor, RPM Sensor with Indicator, Centrifuge	Using Digital Tachometer Calibrator, Comparison Method	10 rpm to 90000 rpm	7.1 % to 0.03 %
2	Speed Contact Type RPM / Tachometer, RPM Sensor with Indicator, Stroboscope/ Centrifuge	Using Digital Tachometer Calibrator, Comparison Method	10 rpm to 4500 rpm	7.15 % to 0.06 %
ACOUSTICS				
1	Sound Level Meter	Using Sound Calibrator, Direct Method as per IS: 15575 (Part-1):2016	94 dB and 114 dB	1.32dB
Dimension				
1	Bore Gauge (transmission error)	Using Dial Calibration Tester, Comparison Method as per JIS B 7515	Up to 1 mm	1.1µm

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	Coating Thickness Gauge (Range: 0 to 99.9 µm -Least Count 0.1 µm, Range: 100 to 1000 µm- Least Count 1 µm)	using Standard Foils, Comparison method as per ISO:19840:2012 (Ref. IS)	10 to 734µm	5.8µm
3	Dial Gauge / Plunger Dial Gauge (L.C.-0.001 mm)	Using Dial Calibration Tester, Comparison Method as per IS:11498:1985	0 to 25 mm	1.2µm
4	Plunger Dial/Micrometer Head: L.C0.0001 mm or coarser	Slip Gauge Set, Dial Indicator & IS-9483:1993 RA 2020	0 to 25mm	1.2µm
5	Dial Test Indicator (L.C.-0.001 mm)	Using Dial Calibration Tester, Comparison Method	0 to 1.4 mm	3.73 µm
6	Dial Thickness Gauge (L.C.-0.01 mm)	Using Slip Gauge Grade '0' , Comparison Method as per IS:2092:1983	0 to 25 mm	7.6µm
7	External Micrometer (L.C.-0.001 mm)	Using Slip Gauge Grade '0' , Comparison Method as per IS: 2967:1983	0 to 100 mm	1µm
8	External Micrometer (L.C.-0.001 mm)	Using Slip Gauge Grade '0' , Comparison Method per IS: 2967:1983	0 to 25 mm	0.9µm

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
9	External Micrometer (L.C.-0.01 mm)	Using Slip Gauge Grade '0' , Comparison Method per IS: 2967:1983	0 to 100 mm	5.9µm
10	External Micrometer (L.C.-0.0001mm)	Using Slip Gauge Grade '0', Comparison Method per IS: 2967:1983	up to 25 mm	0.56µm
11	External Micrometer (L.C.-0.01 mm)	Using Slip Gauge Grade '0' & Long Gauge Block, Comparison Method per IS: 2967:1983	>100mm to 200 mm	5.9µm
12	External Micrometer (L.C.-0.01 mm)	Using Slip Gauge Grade '0' & Long Gauge Block, Comparison Method	>200 mm to 300 mm	5.9µm
13	External Micrometer (L.C.-0.01 mm)	Using Slip Gauge Grade '0' & Long Gauge Block, Comparison Method	>300 mm to 600 mm	8.8µm
14	Inside Dial Caliper/Inside Pistol Caliper (L.C.-0.01 mm)	Using Slip gauge set grade '0' & accessories set by comparison method	5 mm to 100 mm	6µm
15	Internal Micrometer (L.C: 0.01 mm)	Using Slip gauge set grade '0', Long Slip Gauge& accessories set by comparison method	up to 300 mm	6µm
16	Magnetic V Block (Flatness)	Using slip gauge set, dial test indicator & surface plate by	Up to 150*100*75 mm	4.5µm

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		comparison method as per IS – 2949: 1992,RA 2017		
17	Magnetic V Block (Parallelism)	Using Slip Gauge Block, Dial Test Indicator, Test Mandrel & surface Plate , By Comparison Method as per IS – 2949: 1992,RA 2017	Up to 150*100*75 mm	7.0µm
18	Magnetic V Block (Squareness)	Using Slip Gauge Block, Dial Test Indicator, Test Mandrel & Surface Plate by Comparison Method as per IS – 2949: 1992,RA 2017	Up to 150*100*75 mm	7.0µm
19	Magnetic V Block (Symmetricity)	Using Slip Gauge Block, Dial Test Indicator, Test Mandrel & surface Plate by Comparison method as per IS – 2949: 1992,RA 2017	Up to 150*100*75 mm	7.0µm
20	Foils	Using Micro-head/ Plunger Dial with Comparator Stand (L.C.0.0001 mm), Comparison Method	0 to 1 mm	1.42µm
21	Feeler Gauge	Using Micro-head/Plunger Dial with Comparator Stand(L.C.0.0001 mm), Comparison Method as per IS: 3179:1990	0 upto 1 mm	1.4µm

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
22	Height Gauge (L.C.-0.01 mm)/Buffer Height Gauge	Using Slip Gauge Grade '0'& Caliper Checker, Comparison Method as per IS 2921:2016 & JIS B7517:1982	>300mm to 600 mm	13.0 µm
23	Height Gauge (L.C.-0.01 mm)	Using Slip Gauge Grade set '0', Long Gauge Block & surface plate Comparison Method as per IS 2921:2016 & JIS B7517:1982	Up to 300 mm	7.8µm
24	Mould Cube	Using Digital Caliper (L.C. 0.01 mm), Comparison method as per IS: 10086:2021	0 to 150 mm	0.17mm
25	Snap Gauge	Using Slip Gauge Grade 0, Comparison method	Up to 300 mm	1.7µm
26	Snap Gauge	Using Slip Gauge Grade &Long Gauge block, Comparison Method:	>300 mm to 450 mm	2.07 µm
27	Test Sieves (Aperture Size)	Using Digital Caliper (L.C. 0.01 mm), Comparison method as per IS 460 (Part – 1, 2, 3) :2020	4 mm to 125 mm	15.6 µm
28	Thread measuring pins	Using Micro-head/Plunger Dial with Comparator Stand (L.C.0.0001 mm), Comparison	0 to 25 mm	0.6 µm

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
29	Surface Plate	Using Spirit level (L.C. 10 micron) by Comparison method	Up to 6000 mm to 4000 mm	2.36 x Sq.root(L+W)/ 125 where L & W are in mm
30	Ultrasonic Thickness Gauge (L.C.-0.1 µm)	Using Slip Gauge Grade '0', Comparison method	0 to 100 mm	0.11mm
31	Vernier/Dial/Digimatic Caliper (L.C.-0.01 mm)	Using Slip Gauge Grade '0'& Caliper Checker, Comparison Method as per IS 16491 (Part-1):2016	>300mm to 600 mm	10.9µm
32	Vernier/Dial/Digimatic Caliper (L.C.-0.01 mm)	Using Slip Gauge Grade '0' & long gauge block, Comparison Method as per IS 16491 (Part-1):2016	Up to 300 mm	9µm
33	Bevel Protector	Angle Gauge and Surface plate By Comparison Method as per IS 5980	0° to 360°	3.08 min
34	Combination set (LC 1Â°) /Inclinometer/ Digital Angle Protractor (Meter) L.C: 0.01	Angle Gauge and Surface plate By Comparison Method:	0° to 360°	3.08 min
35	Cylindrical measuring pins	Using Micro-head/ Plunger Dial with Comparator Stand (L.C.0.0001	0.1 mm to 20 mm	0.6 µm

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		mm), Comparison Method:		
36	Comparator stand	Using lever dial gauge by comparison method:	Up to 300 x 300 mm	1.5 µm
37	Depth Caliper (L.C.-0.01 mm)	Using Long Gauge block & Caliper Checker, Comparison Method as JIS B7544:1994 & BS 6468:2008	Upto 300 mm	8.2µm
38	Depth micrometer (L.C.-0.001 mm)	Using Long Gauge block & Caliper Checker, Comparison Method as per IS 16491 (Part-1):2016	up to 300 mm	5.3µm
39	Depth micrometer (L.C.-0.01 mm)	Using Long Gauge block & Caliper Checker, Comparison Method as per IS 16491 (Part-1):2016	up to 300 mm	9µm
40	Elongation Index / Flakiness Index apparatus	Using Digital caliper, By Comparison Method as per IS: 2386 (Part –1) :1963	up to 300 mm	27.6 µm
41	Laser Distance Meter	Using Scale & Tape Calibrator by Comparison method	Up to 2000 mm	0.52mm
42	Steel Scale, L.C.:0.5mm/ Wheel	Using Scale & Tape Calibrator & IS 1481: 1970 RA 2014	up to 2000 mm	52.5 µm

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Distance Gauge or coarser			
43	Measuring Tape /Pie Tape L.C.: 1mm or coarser	Using Scale & Tape Calibrator & IS 1269 (Part-1,11) :1997 RA 2018	1 mm to 100mt	(1.0+SQRT(L/1000)) µm, where L in mm
44	Length Bar/ Micrometer Setting Rod / Riser Block/ Height Setting Master/ Micrometer Extension Rod	Slip Gauge Blocks, Long Gauge Blocks, Lever Dial (IS 7014: 1973 RA-2020)	1 mm to 300 mm	4µm
45	Outside Pistol Caliper/ Outside Caliper Gauge LC:0.001mm	Slip Gauge Blocks	0 to 100 mm	1.8µm
46	Caliper Checker/ Step Gauge	Slip Gauge Blocks, Long Gauge Blocks/ Length Bar, Lever Dial	>300mm to 600 mm	6µm
47	Electronic Probe/ Digimatic Indicator/LVDT LC:0.0001 mm	Slip Gauge Blocks	0 to 25 mm	0.8µm
48	Surface Roughness Tester	Roughness Specimen Set (3 Nos.	Ra 0 to 3.2 µm	8.60%

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
49	Plunger Dial (Dial Indicator) LC:0.01mm	Slip Gauge Blocks	Up to 100mm	2µm
50	Plain Plug Gauge	Digital Plunger dial with Comparator Stand	Up to 100mm	2.1µm
DUROMETER				
1	Rubber hardness tester	Using Weighing Balance/Load Cell with indicator (L.C. 0.01N), ASTM D 2240:2017	0 Shore A to 100 Shore A	0.60Shore A
2	Rubber hardness tester	Using Weighing Balance/Load Cell with indicator (L.C. 0.01N), ASTM D 2240:2017	0 Shore D to 100 Shore D	0.58Shore D
PRESSURE INDICATING DEVICES				
1	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRANSMITTER (Hydraulic Pressure)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 70 bar	0.47bar

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRANSMITTER(Hydraulic Pressure)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 700 bar	0.44bar
3	DIGITAL/DIAL VACCUM GAUGE, DIGITAL VACCUMSWITCH, VACCUM TRANSDUCER/TRANSMITTER(Pneumatic Vacuum) #	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 3 bar	0.0024bar
4	DIGITAL/DIAL VACCUM GAUGE, DIGITAL VACCUMSWITCH, VACCUM TRANSDUCER/TRANSMITTER(Pneumatic Vacuum)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	-0.95 bar to 0 bar	0.0044bar
Torque				
1	Torque Wrench/ Torque Screw Driver	Torque Transducer & indicator with Torque	50 Nm to 500 Nm	0.75 % rdg

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Type I/Class B, C, D, E) (Type II/class A, B, D, E)	wrench Calibrator, & IS 16906:2018		

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
ACCELERATION AND SPEED				
1	Non-Contact Type RPM Stroboscope / Pulse Engine Tachometer, Digital Tachometer, Speed Sensor, RPM Sensor, with Indicator, Centrifuge	Using Digital Tachometer Calibrator, Comparison Method	10 rpm to 90000 rpm	7.1% to 0.03 %
2	Speed Contact Type RPM / Tachometer, RPM Sensor with Indicator, Stroboscope/ Centrifuge	Using Digital Tachometer Calibrator, Comparison Method	10 rpm to 4500 rpm	7.15 % to 0.06 %
DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1	Bench Centre (Coaxiality)	Using Test mandrel & dial test indicator by comparison method (IS 5980:1978 RA 2020	Upto 300 mm	8.03µm
2	Bench Centre (Parallelism)	Using Test mandrel & dial test indicator by comparison method (IS 5980:1978 RA 2020	Upto 300 mm	8.03µm
3	Inside Dial Caliper (L.C.-0.01 mm)	Using Slip gauge set grade '0' & accessories set by comparison method	5 mm to 100 mm	6µm

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
4	Surface Plate	Using Spirit level (L.C. 10 micron) by Comparison method	Upto 6000 mm to 4000 mm	3.0 x Sq.root(L+W)/ 125 where L & W are in mm
5	Profile Projector/ VMM (Angle Measurement)/ Optical Microscope/ Metallurgical Microscope - Linear Scale	Using Angle Gauges by Comparison method	0° to 360°	14.4 arc seconds
6	Profile Projector/ VMM (Linear Dimension) (X-Y axis)/ Optical Microscope/ Metallurgical Microscope - Linear Scale	Using Slip Gauge Grade '0' & long gauge block, Comparison Method	Up to 300 mm	4.92 µm
7	Profile Projector/ VMM (Magnification)/ Optical Microscope/ Metallurgical Microscope - Linear Scale	Using Slip Gauge grade '0' & Digital caliper by Comparison method	50X	0.08%
8	Measuring Tape & Scale Calibrator LC:0.0001 mm	Slip Gauge Blocks, Long Gauge Blocks and Length Bar	up to 1000 mm	10µm
9	Surface Roughness Tester	Roughness Specimen Set (3 Nos.	Ra 0 to 3.2 µm	8.60%

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
MECHANICALPRESSURE INDICATING DEVICES				
1	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRANSMITTER (Hydraulic Pressure)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 70 bar	0.47bar
2	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRANSMITTER(Hydraulic Pressure)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 700 bar	0.44bar
3	DIGITAL/DIAL VACCUM GAUGE, DIGITAL VACCUMSWITCH, VACCUM TRANSDUCER/TRANSMITTER(Pneumatic Vaccum)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 3 bar	0.0024bar
4	DIGITAL/DIAL VACCUM GAUGE, DIGITAL VACCUMSWITCH,	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	-0.95 bar to 0 bar	0.0044bar

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	VACCUM TRANSDUCER/TRANSMITTER (Pneumatic Vacuum)			
Group-Weighing Balance				
1	Weighing Scale and Balance (Resolution 0.1g or (Class II and Coarser))	Using F1 class Standard Weights as per OIML R76-1	0-6kg	0.12gm
2	Weighing Scale and Balance (Resolution 1g or g (Class II and Coarser))	Using F1 class Standard Weights as per OIML R76-1	0-30kg	0.6gm
3	Weighing Scale and Balance (Resolution 10 g or g (Class II and Coarser))	Using F1 & M1 class Standard Weights as per OIML R76-1	0-110 kg	12.56gm

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
TEMPERATURE				
1	Blackbody Source/ IR Thermal Sources/ Blackbody Sources	Using Radiation Pyrometer by direct method	-20 °C to 200 °C	2.0°C
2	Blackbody Source/ IR Thermal Sources/ Blackbody Sources	Using Radiation Pyrometer by direct method	200 °C to 500 °C	3.7°C
3	IR Thermometer, Infrared temperature sensor/ Contactless Temperature Sensor, transmitter, thermal Imaging/ Camera, Pyrometer @ emissivity 0.95	Using Radiation Pyrometer & IR Calibrator by comparison method	100 °C to 200 °C	3.7°C
4	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/ IR pyrometer/ infrared temperature sensor/ Contactless Temperature Sensor	Using Radiation Pyrometer & IR Calibrator by comparison method	>200 °C to 500 °C	3.7°C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	/transmitter, thermal Imaging/ Camera, Pyrometer @ emissivity 0.95			
5	IR Thermometer/Infrared Body Temperature Thermometer, Infrared temperature sensor / Contactless Temperature Sensor / transmitter, thermal Imaging/Camera, Pyrometer @ emissivity 0.95	Using Radiation Pyrometer & IR Calibrator by comparison method	-20 °C to 100 °C	2.0°C
6	Temperature Indicator of Freezers, Oven, Environment Chamber, Incubator Metrology well, BOD Incubator, Liquid Bath / Dry Block Furnaces (Single Position calibration)	Using SSPRT with 6½ Digital multimeter, by comparison method,	300 °C to 650 °C	0.52°C
7	Temperature Indicator of Thermal Sources	Using Type-S Thermocouples with	600 °C to 1200 °C	1.9°C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace) (Stability & Uniformity) (Single position calibration)	Indicator by comparison method,		
8	Temperature Indicators of (Freezers, Oven, Environment Chamber, Incubator, Metrology well, BOD Incubator, Liquid Bath / Dry Block Furnaces) (Stability & Uniformity) (Single Position calibration)	Using SSPRT with 6½ Digital multimeter, by comparison method	0 °C to 300 °C	0.52°C
9	Temperature Indicators of (Freezers, Oven, Environment Chamber, Incubator BOD Incubator, Metrology well, Liquid Bath / Dry Block Furnaces) (Stability &	Using SSPRT with 6½ Digital multimeter, by comparison method	-80 °C to 0 °C	0.52°C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Uniformity) (Single position calibration)			
10	Temperature Transmitter RTD's Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, Glass Thermometer & Digital Thermometer, temperature switch	Using SSPRT with 6½ Digital multimeter and liquid Temperature Bath, Comparison Method	100 °C to 250 °C	0.58°C
11	Temperature Transmitter RTD's Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, DigitalThermometer, temperature switch	Using SSPRT with 6½ Digital multimeter and dry block calibrator, Comparison Method	250 °C to 650 °C	0.60°C
12	Temperature Transmitter RTD's	Using SSPRT with 6½ Digital multimeter and	-20 °C to 100 °C	0.58°C

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, Glass Thermometer & Digital Thermometer, temperature switch	liquid Temperature Bath, Comparison Method		
13	Thermal Sources of (Furnaces/ Spatial Thermal Mapping (Multi-position, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N type thermocouple with Data Logger by comparison method	300 °C to 1200 °C	4.2°C
14	Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room, (Multi position, Multiple Sensors,	Using Multiple RTD Sensors with Data Logger by Comparison method	-30 °C to 250 °C	1.6°C

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Temperature Uniformity Survey (TUS), Thermal M			
15	Thermocouples, Temperature Transmitter with & without (Controller/Indicator/ Recorder), Data Logger & Digital Thermometer, temperature switch	Using S Type Thermocouple with Indicator & Dry block furnace, By Comparison Method	600 °C to 1200 °C	2.1°C
16	Humidity Sensor with Indicator of Humidity Chamber /Climate Chamber @25°C (single Position Calibration)	Relative Humidity & Temperature Sensor with Indicator by comparison method	25 % RH to 90 % RH	2%
17	Humidity Sensor with Indicator of Humidity Chamber /Climate Chamber @50%Rh (single Position Calibration)	Using RH & Temp sensor with indicator &RH source by comparison method:	10 °C to 50 °C	1.23 %
18	Temperature & RH sensor with Indicator, Thermo-hygrometer, Data Logger with	Using RH & Temp sensor with indicator &RH source by	10 °C to 50 °C	1.23 %

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Internal/External Sensor @50% RH			
19	Temperature & RH sensor with Indicator, Thermo-hygrometer, Logger with Internal/ External Sensor @25°C	Using RH & Temp sensor with indicator & Temperature and Humidity Chamber by comparison method:	25 %Rh to 90 %Rh	2%

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
1	Blackbody Source/ IR Thermal Sources/ Blackbody Sources	Using Radiation Pyrometer by direct method	-20 °C to 200 °C	2.0°C
2	Blackbody Source/ IR Thermal Sources/ Blackbody Sources	Using Radiation Pyrometer by direct method	200 °C to 500 °C	3.0°C
3	IR Thermometer, Infrared temperature sensor/ Contactless Temperature Sensor / transmitter, thermal Imaging/ Camera, Pyrometer @ emissivity 0.95	Using Radiation Pyrometer & IR Calibrator by comparison method	100 °C to 200 °C	2.0°C
4	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/ IR pyrometer/ infrared temperature	Using Radiation Pyrometer & IR Calibrator by comparison method	>200 °C to 500 °C	3.0°C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	sensor/ transmitter, thermal Imaging/ Camera, Pyrometer @ emissivity 0.95			
5	IR Thermometer/Infra re d Body Temperature Thermometer, Infrared temperature sensor / Contactless Temperature Sensor / transmitter, thermal Imaging/Camera, Pyrometer @ emissivity 0.95	Using Radiation Pyrometer & IR Calibrator by comparison method	-20 °C to 100 °C	2.0°C
6	Temperature Indicator of Freezers, Oven, Environment Chamber, Incubator (Non-Medical Purpose),	Using SSPRT With 6½ Digital multimeter, by comparison method,	300 °C to 650 °C	0.20°C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Metrology well,BOD Incubator, Liquid Bath / Dry Block Furnaces (Single Position calibration)			
7	Temperature Indicator of Thermal Sources (Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace) (Stability & Uniformity) (Single position calibration)	Using Type-S Thermocouples with Indicator by comparison method,	600 °C to 1200 °C	1.9°C
8	Temperature Indicators of (Freezers, Oven, Environment Chamber, Incubato (Non Medical	Using SSPRT with 6½ Digital multimeter, by comparison method	0 °C to 300 °C	0.15°C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Purpose), Metrology well, BOD Incubator, Liquid Bath / Dry Block Furnaces) (Stability & Uniformity) (Single Position calibration)			
9	Temperature Indicators of (Freezers, Oven, Environment Chamber, Incubator (Non Medical Purpose), BOD Incubator, Metrology well, Liquid Bath / Dry Block Furnaces) (Stability & Uniformity) (Single position calibration)	Using SSPRT with 6½ Digital multimeter, by comparison method	-80 °C to 0 °C	0.52°C
10	Temperature Transmitter RTD's	Using SSPRT with 6½ Digital multimeter and	100 °C to 250 °C	0.15°C

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(Annexure to Certificate of CL - 121)

Laboratory Name: M/s Quality Calibration Testing Solutions
Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

Validity 01.04.2024 to 31.03.2026 Amended on ……

Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, Glass Thermometer & Digital Thermometer, temperature switch	liquid Temperature Bath, Comparison Method		
11	Temperature Transmitter RTD's Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, Digital Thermometer, temperature switch	Using SSPRT with 6½ Digital multimeter and liquid Temperature Bath, Comparison Method	250 °C to 650 °C	0.20°C
12	Temperature Transmitter RTD's Thermocouples with & without	Using SSPRT with 6½ Digital multimeter and liquid Temperature Bath, Comparison Method	-30 °C to 100 °C	0.11°C

Dealing Officer

SCOPE OF ACCREDITATION

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	(Controller/Indicator/ Data Logger/Recorder), Temperature Gauge, Glass Thermometer & Digital Thermometer, temperature switch			
13	Thermal Sources of (Furnaces/ Spatial Thermal Mapping (Multi-position, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N type thermocouple with Data Logger by comparison method	300 °C to 1200 °C	4.2°C
14	Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD	Using Multiple RTD Sensors with Data Logger by comparison method	250 °C to 300 °C	2.0°C

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Incubators, Cold Room, (Multiposition, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal M			
15	Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room, (Multiposition, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal M	Using Multiple RTD Sensors with Data Logger by Comparison method	-30 °C to 250 °C	1.6°C
16	Thermocouples, Temperature Transmitter with & without (Controller/Indicat	Using S Type Thermocouple with Indicator & Dry block furnance, By Comparison Method	600 °C to 1200 °C	2.1°C

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Validity 01.04.2024 to 31.03.2026 Amended on ……

Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	or/ Recorder), Data Logger & Digital Thermometer, temperature switch			
17	Humidity Sensor with Indicator of Humidity Chamber /Climate Chamber @25°C (single Position Calibration)	Relative Humidity & Temperature Sensor with Indicator by comparison method	25 % RH to 90 % RH	2%
18	Humidity Sensor with Indicator of Humidity Chamber /Climate Chamber @50%Rh (single Position Calibration)	Using RH & Temp sensor with indicator &RH source by comparison method:	10 °C to 50 °C	1.23 %

*** Expanded uncertainty expressed in coverage probability of approximately 95% (coverage factor K=2)**

Dealing Officer