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

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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Alternat	ting Current (Measure I	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 %
Alternat	ting Current (Source Mo	ode)		
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 %

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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 Cu	urrent (Measure Mode	e)		
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 Cu	urrent (Source Mode)			
1	DC Current	Using Multi-function calibrator, Direct method	0.1 mA to 20mA	0.24 % to 0.18 %

Dealing Officer

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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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
2	DC Current	Using Multi-function	10 A to 1000 A	0.14 % to 0.17 %
		calibrator with current coil,		
		Direct method		
3	DC Current	Using Multi-function	20 mA to 10 A	0.18 % to 0.15 %
		calibrator, Direct method		
4	DC Voltage	Using Multi-function	1 mV to 200 mV	2.1 % to 0.19 %
		calibrator, Direct method		
5	DC Voltage	Using Multi-function	200mV to1000V	0.19 % to 0.17 %
		calibrator, Direct		
		method		
6	Low Resistance	Using Standard Resistance	1 milliohm	2.23 %
		Box, Direct method		
7	Low Resistance	Using Standard Resistance	10 milli ohm	2.34 %
		Box, Direct method		
8	Low Resistance	Using Standard Resistance	100 milli ohm	2.39 %
		Box, Direct method		
9	Resistance	Using Resistance box, direct	1 kilo ohm to	0.048 % to 0.028 %
		method	100 kilo ohm	
10	Resistance	Using Resistance box, direct	1 ohm to 10	2.65 % to 0.22 %
		method	ohm	
11	Resistance	Using Resistance box, direct	10 Mega ohm to	0.295 % to 0.17 %
		method	100 Mega ohm	
12	Resistance	Using Resistance	10 ohm to 1000	0.22 % to 0.048 %
		box, direct method	ohm	
13	Resistance	Using Resistance	100 kilo ohm to	0.19 % to 0.295 %
		box, direct method	10 Mega ohm	

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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 %

1	Temperature Simulation (Indicator/controlle r/Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.07°C
2	Temperature Simulation (Indicator/controlle r/Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.088°C
3	Temperature Simulation (Indicator/controlle r/Recorder), 'J' Type	Using universal Calibrator, direct method	-200 °C to 760 °C	1.78°C
4	Temperature Simulation (Indicator/controlle r/Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	3.49°C
5	Temperature Simulation (Indicator/controlle r/Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.53°C

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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 (±) *
6	Temperature	Using universal	200 °C to 1600 °C	3.10°C
	Simulation (Indicator/controlle r/Recorder), 'R' Type	Calibrator, direct method	200 0 10 1000 0	3.10 0
7	Temperature Simulation (Indicator/controlle r/Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.90°C
8	Temperature Simulation (Indicator/controlle r/ Recorder), 'T' Type	Using universal Calibrator, direct method	-160 °C to 400 °C	1.52°C
Temper	ature Simulation Sour	ce Mode		
1	Temperature Simulation (Indicator/controlle r/Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.36℃
2	Temperature Simulation (Indicator/controlle r/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℃

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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 (±) *
1,	(Indicator/controllo			

	(Indicator/controlle			
	r/Recorder), 'J' Type			
4	Temperature	Using universal Calibrator,	-200 °C to 1200 °C	1.43°C
	Simulation	direct method		
	(Indicator/controlle			
	r/Recorder), 'K Type		200 00 1 000 00	4.40.00
5	Temperature	Using universal	-200 °C to 800 °C	1.18 °C
	Simulation	Calibrator, direct		
	(Indicator/controlle	method		
	r/Recorder),			
6	'PT-100' Type	Haira a contra mani	200 %C += 4.000 %C	2.45%
Ь	Temperature Simulation	Using universal	200 °C to 1600 °C	2.45°C
	(Indicator/controlle	Calibrator, direct method		
	r/Recorder),	Inethod		
	'R' Type			
7	Temperature	Using universal	200 °C to 1600 °C	2.83°C
,	Simulation	Calibrator, direct	200 0 10 1000 0	2.03 C
	(Indicator/controlle	method		
	r/Recorder), 'S Type	eurou		
8	Temperature	Using universal	-160 °C to 400 °C	1.21°C
	Simulation	Calibrator, direct		
	(Indicator/controlle	method		
	r/Recorder),			
	'T' Type			
Time o O	Fraguesia Magazina M	1 a d a		

Time & Frequency Measure Mode

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

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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 %

1	Frequency	Using 6½ DMM, Direct	10 Hz to 1 MHz	0.151 % to 0.012 %		
		method				
2	Timer/ Stop Watch	Using Digital Timer,	100ms to 86400 s	0.01 To 2.77s		
	(Digital/Analog)	Direct/comparison method				
Freque	Frequency Source Mode					
1	Frequency	Using Multifunction	45 Hz to 1000 Hz	0.292 % to 0.28 %		
		Calibrator, Direct method				

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Validity 01.04.2024 to 31.03.2026 Amended on

Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Altern	ating Current (Measure N	Aode)		
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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Alterna	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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

Direct (Current (Measure Mo	ode)		
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	e)		
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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Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

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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	1 mV to 200 mV	2.1 % to 0.19 %

4	DC Voltage	Using Multi-function	1 mV to 200 mV	2.1 % to 0.19 %
5	DC Voltage	calibrator, Direct method 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

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *

1	Temperature Simulation (Indicator/controlle r/ Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.07°C
2	Temperature Simulation (Indicator/controlle r/ Recorder), 'E' Type	Using universal Calibrator, direct method	-100 °C to 1000 °C	1.088°C
3	Temperature Simulation (Indicator/controlle r/ Recorder), 'J' Type	Using universal Calibrator, direct method	-200 °C to 760 °C	1.78°C
4	Temperature Simulation (Indicator/controlle r/ Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	3.49°C
5	Temperature Simulation (Indicator/controlle r/Recorder), 'PT- 100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.53℃
6	Temperature Simulation	Using universal Calibrator, direct method	200 °C to 1600 °C	3.10°C

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Laboratory Name: M/s Quality Calibration Testing Solutions

Parameter

S. No.

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

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Electro-Technical Calibration (At Site)

Calibration Method/

		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
	(Indicator/controlle r/ Recorder), 'R' Type			
7	Temperature Simulation (Indicator/controlle r/ Recorder), 'S Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.90°C
8	Temperature Simulation (Indicator/controlle r/ Recorder), 'T' Type	Using universal Calibrator, direct method	-160 °C to 400 °C	1.52°C
Tempe	rature Simulation Sour	ce Mode		
1	Temperature Simulation (Indicator/controlle r/ Recorder), 'B' Type	Using universal Calibrator, direct method	450 °C to 1600 °C	3.36°C
2	Temperature Simulation (Indicator/controlle r/ 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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Uncertainty in

Range

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Electro-Technical Calibration (At Site)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	(Indicator/controlle r/ Recorder), 'J' Type			
4	Temperature Simulation (Indicator/controlle r/ Recorder), 'K Type	Using universal Calibrator, direct method	-200 °C to 1200 °C	1.43°C
5	Temperature Simulation (Indicator/controlle r/ Recorder), 'PT-100' Type	Using universal Calibrator, direct method	-200 °C to 800 °C	1.22 °C
6	Temperature Simulation (Indicator/controlle r/ Recorder), 'R' Type	Using universal Calibrator, direct method	200 °C to 1600 °C	2.45°C
7	Temperature Simulation (Indicator/controlle r/ 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/controlle r/			
	Recorder), 'T' Type			
Time &	Frequency Measure M	lode		
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

Using Multifunction Frequency 45 Hz to 1000 Hz 1 0.292 % to 0.28 % Calibrator, Direct method

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

Validity 01.04.2024 to 31.03.2026

Amended on

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

ACCELE	RATION 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 %
ACOUS	TICS			
1	Sound Level Meter	Using Sound Calibrator, Direct Method as per IS: 15575 (Part-1):2016	94 dB and 114 dB	1.32dB
Dimens	sion			
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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Parameter

S. No.

Amended on

Uncertainty in

Range

Mechanical Calibration (Laboratory Based)

Calibration Method/

		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
2	Coating Thickness	using Standard Foils,	10 to 734μm	5.8µm
	Gauge (Range: 0 to	Comparison method as per		
	99.9 μm -Least	ISO:19840:2012 (Ref. IS)		
	Count 0.1 µm,			
	Range: 100 to 1000			
	μm- Least Count 1			
	μm)			
3	Dial Gauge /	Using Dial Calibration Tester,	0 to 25 mm	1.2μm
	Plunger Dial Gauge	Comparison Method as per		
	(L.C0.001 mm)	IS:11498:1985		
4	Plunger	Slip Gauge Set, Dial Indicator	0 to 25mm	1.2μm
	Dial/Micrometer	& IS-9483:1993 RA 2020		
	Head: L.C0.0001			
	mm or coarser			
5	Dial Test Indicator	Using Dial Calibration Tester,	0 to 1.4 mm	3.73 μm
	(L.C0.001 mm)	Comparison Method		
6	Dial Thickness	Using Slip Gauge Grade '0',	0 to 25 mm	7.6µm
	Gauge (L.C0.01	Comparison Method as per		
	mm)	IS:2092:1983		
7	External	Using Slip Gauge Grade '0',	0 to 100 mm	1μm
	Micrometer (L.C	Comparison Method as per IS:		
	0.001 mm)	2967:1983		
8	External	Using Slip Gauge Grade '0',	0 to 25 mm	0.9µm
	Micrometer (L.C	Comparison Method per IS:		
	0.001 mm)	2967:1983		

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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

Parameter

S. No.

Amended on

Uncertainty in

Range

......

Mechanical Calibration (Laboratory Based)

Calibration Method/

0				
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
				L
9	External	Using Slip Gauge Grade '0',	0 to 100 mm	5.9μm
	Micrometer (L.C	Comparison Method per IS:		
	0.01 mm)	2967:1983		
10	External	Using Slip Gauge Grade '0',	up to 25 mm	0.56µm
	Micrometer (L.C	Comparison Method per IS:		
	0.0001mm)	2967:1983		
11	External	Using Slip Gauge Grade '0' &	>100mm to 200	5.9μm
	Micrometer (L.C	Long Gauge Block,	mm	
	0.01 mm)	Comparison Method per IS:		
		2967:1983		
12	External	Using Slip Gauge Grade '0' &	>200 mm to	5.9μm
	Micrometer (L.C	Long Gauge Block,	300 mm	
	0.01 mm)	Comparison Method		
13	External	Using Slip Gauge Grade '0' &	>300 mm to	8.8µm
	Micrometer (L.C	Long Gauge Block,	600 mm	
	0.01 mm)	Comparison Method		
14	Inside Dial	Using Slip gauge set grade '0'	5 mm to 100	6μm
	Caliper/Inside	& accessories set by	mm	
	Pistol Caliper (L.C	comparison method		
	0.01 mm)			
15	Internal	Using Slip gauge set grade '0',	up to 300 mm	6μm
	Micrometer (L.C:	Long Slip Gauge& accessories		
	0.01 mm)	set by comparison method		
16	Magnetic V Block	Using slip gauge set, dial test	Up to	4.5μm
	(Flatness)	indicator & surface plate by	150*100*75	
			mm	

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Mechanical Calibration (Laboratory Based)

Standard

		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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Validity 01.04.2024 to 31.03.2026

Parameter

S. No.

Amended on

Range

Uncertainty in

•••••

Mechanical Calibration (Laboratory Based)

Calibration Method/

3. NO.	rarameter	Procedure & Equipment used as Reference Standard	Kalige	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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Amended on

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
29	Surface Plate	Using Spirit level (L.C. 10	Up to 6000 mm	2.36 x Sq.root(L+W)/

method in mm 30 Ultrasonic Thickness Gauge (L.C0.1 μm) Using Slip Gauge Grade '0', Comparison method 0 to 100 mm 0.11mm 31 Vernier/Dial/Digim atic Caliper (L.C0.1 μm) Using Slip Gauge Grade '0'& Caliper Checker, Comparison Method as per IS 16491 (Part-1):2016 mm 10.9μm 32 Vernier/Dial/Digim atic Caliper (L.C0.1 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 1°) / Inclinometer/Digital Angle Protractor (Meter) Angle Gauge and Surface plate By Comparison Method: 0° to 360° 3.08 min	29	Surface Plate	Using Spirit level (L.C. 10	Up to 6000 mm	2.36 x Sq.root(L+W)/
30			micron) by Comparison	to 4000 mm	125 where L & W are
Thickness Gauge (L.C0.1 μm) 31 Vernier/Dial/Digim atic Caliper (L.C0.1 μm) 32 Vernier/Dial/Digim atic Caliper (L.C0.1 μm) 32 Vernier/Dial/Digim atic Caliper (L.C1):2016 32 Vernier/Dial/Digim atic Caliper (L.C1):2016 33 Bevel Protector 34 Combination set (LC 1°) / Inclinometer/Digital Angle Protractor (Meter) 35 A Comparison method Comparison method Using Slip Gauge Grade '0' & Up to 300 mm Up to 300 mm 9μm 9μm 9μm 0° to 360° 3.08 min 0° to 360° 3.08 min			method		in mm
(L.C0.1 μm) 31 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) Method as per IS 16491 (Part- 1):2016 Using Slip Gauge Grade '0' & long gauge block, Comparison Method as per IS 16491 (Part- 1):2016 Up to 300 mm 9μm	30	Ultrasonic	Using Slip Gauge Grade '0',	0 to 100 mm	0.11mm
31 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) Using Slip Gauge Grade '0'&		Thickness Gauge	Comparison method		
atic Caliper (L.C 0.01 mm) Method as per IS 16491 (Part- 1):2016 32 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) Method as per IS 16491 (Part- 1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) Acaliper Checker, Comparison mm Method as per IS 16491 (Part- 1):2016 O° to 360° 3.08 min O° to 360° 3.08 min		(L.C0.1 μm)			
0.01 mm) Method as per IS 16491 (Part- 1):2016 32 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) Method as per IS 16491 (Part- 1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) Method as per IS 16491 (Part- 1):2016 O° to 360° 3.08 min O° to 360° 3.08 min	31	Vernier/Dial/Digim	Using Slip Gauge Grade '0'&	>300mm to 600	10.9μm
1):2016 32 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) 33 Bevel Protector 34 Combination set (LC 1°) / Inclinometer/ Digital Angle Protractor (Meter) 39 Vernier/Dial/Digim atic Caliper (L.C 10.01 mg) 31 Using Slip Gauge Grade '0' & 10.01 mg gauge block, Comparison Method 1		atic Caliper (L.C	Caliper Checker, Comparison	mm	
32 Vernier/Dial/Digim atic Caliper (L.C 0.01 mm) Using Slip Gauge Grade '0' & long gauge block, Comparison Method as per IS 16491 (Part-1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) / Inclinometer/ Digital Angle Protractor (Meter) Vising Slip Gauge Grade '0' & Up to 300 mm 9μm 30 O° to 360° 3.08 min 3.08 min 3.08 min 34 Combination set (LC 1°) Plate By Comparison Method: O° to 360° 3.08 min 3.08		0.01 mm)	Method as per IS 16491 (Part-		
atic Caliper (L.C 0.01 mm) Method as per IS 16491 (Part- 1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) long gauge block, Comparison Method as per IS 16491 (Part- 1):2016 Angle Gauge and Surface plate By Comparison Method: 0° to 360° 3.08 min 3.08 min			1):2016		
0.01 mm) Method as per IS 16491 (Part- 1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) Method as per IS 16491 (Part- 1):2016 Angle Gauge and Surface plate By Comparison Method: 0° to 360° 3.08 min 3.08 min	32	Vernier/Dial/Digim	Using Slip Gauge Grade '0' &	Up to 300 mm	9μm
1):2016 33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) Plate By Comparison Method: //Inclinometer/ Digital Angle Protractor (Meter)		atic Caliper (L.C	long gauge block, Comparison		
33 Bevel Protector Angle Gauge and Surface plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) Angle Gauge and Surface of the second seco		0.01 mm)	Method as per IS 16491 (Part-		
plate By Comparison Method as per IS 5980 34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) plate By Comparison Method: 0° to 360° 3.08 min 3.08 min			1):2016		
as per IS 5980 34 Combination set (LC 1°)	33	Bevel Protector	Angle Gauge and Surface	0° to 360°	3.08 min
34 Combination set (LC 1°) /Inclinometer/ Digital Angle Protractor (Meter) Angle Gauge and Surface plate By Comparison Method: 0° to 360° 3.08 min 3.08 min			plate By Comparison Method		
(LC 1°) plate By Comparison Method: /Inclinometer/ Digital Angle Protractor (Meter)			as per IS 5980		
/Inclinometer/ Digital Angle Protractor (Meter)	34		Angle Gauge and Surface	0° to 360°	3.08 min
Digital Angle Protractor (Meter)		(LC 1°)	plate By Comparison Method:		
Protractor (Meter)		/Inclinometer/			
		Digital Angle			
		Protractor (Meter)			
L.C: 0.01		L.C: 0.01			
35 Cylindrical Using Micro-head/ Plunger 0.1 mm to 20 0.6 μm	35	Cylindrical	Using Micro-head/ Plunger	0.1 mm to 20	0.6 μm
measuring pins Dial with Comparator Stand mm		measuring pins	Dial with Comparator Stand	mm	
(L.C.0.0001			(L.C.0.0001		

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 121)

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

Validity 01.04.2024 to 31.03.2026

Amended on

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Mechanical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
	<u>-</u>			

		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.C0.001 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.C0.01 mm)	Using Long Gauge block & Caliper Checker, Comparison Method as per IS 16491 (Part-1):2016	up to 300 mm	9µт
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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	Distance Gauge or			
	_			
	coarser			(, , , , , , , , , , , , , , , , , , ,
43	Measuring Tape	Using Scale & Tape Calibrator	1 mm to 100mt	(1.0+SQRT(L/1000))
	/Pie Tape L.C.:	& IS 1269 (Part-1,11) :1997		μm, where L in mm
	1mm or coarser	RA 2018		
44	Length Bar/	Slip Gauge Blocks, Long	1 mm to 300	4μm
	Micrometer Setting	Gauge Blocks, Lever Dial (IS	mm	
	Rod / Riser Block/	7014: 1973 RA-2020)		
	Height Setting	·		
	Master/			
	Micrometer			
	Extension Rod			
45	Outside Pistol	Slip Gauge Blocks	0 to 100 mm	1.8µm
	Caliper/ Outside			,
	Caliper Gauge			
	LC:0.001mm			
46	Caliper Checker/	Slip Gauge Blocks, Long	>300mm to 600	6μm
	Step Gauge	Gauge Blocks/ Length Bar,	mm	- P
	Step dauge	Lever Dial		
47	Electronic Probe/	Slip Gauge Blocks	0 to 25 mm	0.8μm
77	Digimatic	Ship Gauge Blocks	0 to 25 mm	ο.ομπ
	Indicator/LVDT			
	-			
	LC:0.0001 mm		2 2 2 2 2	0.000/
48	Surface Roughness	Roughness Specimen Set (3	Ra 0 to 3.2 μm	8.60%
	Tester	Nos.		

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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

DURO	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 PRESSI	Rubber hardness tester URE INDICATING DEVIC	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	
1	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRAN SMITTER (Hydraulic Pressure)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	0 bar to 70 bar	0.47bar	

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 121)

Laboratory Name: M/s Quality Calibration Testing Solutions

Parameter

S. No.

1

Torque Wrench/

Torque Screw Driver

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

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Mechanical Calibration (Laboratory Based)

Calibration Method/

Procedure & Equipment

		used as Reference		
		Standard		
2	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRAN SMITTER(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/TRAN SMITTER(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/TRAN SMITTER(Pneumatic Vacuum)	By using Digital Pressure Gauge, Comparison Method DKD R-6-1	-0.95 bar to 0 bar	0.0044bar
Torque		1		

Torque Transducer &

indicator with Torque

Dealing Officer

Uncertainty in

Measurement (±) *

Range

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,	wrench Calibrator, & IS		

(Tyne I/Class B. C. D.	wrench Calibrator, & IS	
E) (Type II/class A, B,	-	
	10900.2018	
D, E)		

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

ACCELI	ERATION 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 %
DIMEN	ISION (BASIC MEASURI	NG 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.C0.01 mm)	Using Slip gauge set grade '0' & accessories set by comparison method	5 mm to 100 mm	6µт

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

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	Range	Uncertainty in Measurement (±) *
		used as Reference		
		Standard		

MECH	MECHANICALPRESSURE INDICATING DEVICES				
1	DIGITAL/DIAL PRESSURE GAUGE, DIGITAL PRESSURE SWITCH, PRESSURE TRANSDUCER/TRAN SMITTER (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/TRAN SMITTER(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/TRAN SMITTER(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/TRAN SMITTER (Pneumatic Vacuum)			
Group-	Weighing Balance	1		
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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Booth No. 74, Huda Market, Sector-8, Faridabad Haryana-121006

Validity 01.04.2024 to 31.03.2026 Amended on

Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

EMPE	RATURE			
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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S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	/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℃
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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	(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/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	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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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	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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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	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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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/	Range	Uncertainty in
		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		

	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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Calibration Method/

Laboratory Name: M/s Quality Calibration Testing Solutions

Parameter

temperature

S. No.

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

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Thermal Calibration (At Site)

Range

		Procedure & Equipment		Measurement (±) *
		used as Reference		
		Standard		
	•		•	
1	Blackbody Source/	Using Radiation Pyrometer	-20 °C to 200 °C	2.0°C
	IR Thermal	by direct method		
	Sources/			
	Blackbody Sources			
2	Blackbody Source/	Using Radiation	200 °C to 500	3.0°C
	IR Thermal	Pyrometer by direct	°C	
	Sources/	method		
	Blackbody Sources			
3	IR Thermometer,	Using Radiation	100 °C to 200	2.0°C
	Infrared	Pyrometer & IR	°C	
	temperature	Calibrator by comparison		
	sensor/ Contactless	method		
	Temperature			
	Sensor /			
	transmitter,			
	thermal Imaging/			
	Camera, Pyrometer			
	@ emissivity 0.95			
4	IR Thermometer/	Using Radiation	>200 °C to 500	3.0°C
	IR Gun/Radiation	Pyrometer & IR	°C	
	Pyrometer/ IR	Calibrator by comparison		
	Detector/ Thermal	method		
	Imagers/ Laser			
	pointed/ IR			
	pyrometer/ infrared			
				1

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Uncertainty in

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Parameter

S. No.

Amended on

Range

Uncertainty in

Thermal Calibration (At Site)

Calibration Method/

		Procedure & Equipment used as Reference Standard		Measurement (±) *
			T	T
	sensor/ transmitter,			
	thermal Imaging/			
	Camera, Pyrometer			
	@ emissivity 0.95			
5	IR	Using Radiation	-20 °C to 100 °C	2.0°C
	Thermometer/Infra	Pyrometer & IR		
	re d Body	Calibrator by comparison		
	Temperature	method		
	Thermometer,			
	Infrared			
	temperature sensor			
	/ Contactless			
	Temperature			
	Sensor /			
	transmitter,			
	thermal			
	Imaging/Camera,			
	Pyrometer @			
	emissivity 0.95			
6	Temperature	Using SSPRT With 6½	300 °C to 650	0.20°C
	Indicator of	Digital multimeter, by	°C	
	Freezers, Oven,	comparison method,		
	Environment			
	Chamber,			
	Incubator (Non-			
	Medical Purpose),			

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
7	Metrology well,BOD Incubator, Liquid Bath / Dry Block Furnaces (Single Position calibration) 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	Range	Uncertainty in Measurement (±) *
		Standard		
	D \	<u> </u>	I	
	Purpose),			
	Metrology well,			
	BOD Incubator,			
	Liquid Bath / Dry			
	Block Furnaces)			
	(Stability &			
	Uniformity)			
	(Single Position			
9	calibration)	Hair a CCDDT with 61/	-80 °C to 0 °C	0.52°C
9	Temperature Indicators of	Using SSPRT with 6½	-80 10 10 10	0.52 C
		Digital multimeter, by		
	(Freezers, Oven, Environment	comparison method		
	Chamber,			
	Incubator (Non			
	`			
	Medical Purpose), BOD Incubator,			
	Metrology well,			
	Liquid Bath / Dry			
	Block Furnaces)			
	(Stability &			
	Uniformity)			
	(Single position			
	calibration)			
10	Temperature	Using SSPRT with 6½	100 °C to 250	0.15°C
	Transmitter RTD's	Digital multimeter and	°C	

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Thermal Calibration (At Site)

Calibration Method/

		Procedure & Equipment used as Reference Standard		Measurement (±) *
	Thermocouples with & without (Controller/Indicat or/ 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/Indicat or/ 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

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Uncertainty in

Range

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Thermal Calibration (At Site)

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

S. No.

Amended on

Uncertainty in

Range

Thermal Calibration (At Site)

Calibration Method/

5. NO.	Parameter	Procedure & Equipment used as Reference	Kange	Measurement (±) *
		Standard		
	T	T	T	1
	Incubators, Cold			
	Room,			
	(Multiple Sensors			
	Multiple Sensors, Temperature			
	Uniformity Survey			
	(TUS), Thermal M			
15	Thermal Sources	Using Multiple RTD	-30 °C to 250 °C	1.6°C
	of (Oven,	Sensors with Data Logger	20 210 220 2	
	Environmental	by Comparison method		
	Chambers/Furnace			
	s/ Heating			
	Chambers/			
	Incubators & BOD			
	Incubators, Cold			
	Room,			
	(Multiposition,			
	Multiple Sensors,			
	Temperature			
	Uniformity Survey			
	(TUS), Thermal M			
16	Thermocouples,	Using S Type	600 °C to 1200	2.1°C
	Temperature	Thermocouple with	°C	
	Transmitter with &	Indicator & Dry block		
	without	furnance, By Comparison		
	(Controller/Indicat	Method		

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

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

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