

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

EXCEL CALIBRATION PRIVATE LIMITED

Plot No: A – 5/9, 1st Floor, Road No.1, IDA Nacharam,
Hyderabad (Telangana) – 500076, India

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- 135

Issue Date: 04.10.2024

Valid Until: 03.10.2026

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

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 135)

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Hyderabad (Telangana) – 500076, India

Validity: 04.10.2024 to 03.10.2026

Amended on N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Electro-Technical Calibration (Laboratory based)

Group-Alternate Current (Measure Mode)				
1	AC Current @ 50Hz	Using 6½ Precision Multi meter By Direct Method	100 μ A to 100mA	0.25% to 0.071%
			100 mA to 1A	0.071% to 0.071%
			1 A to 10 A	0.071% to 0.095 %
2	AC Current @ 50Hz	Using 8½ Reference Multi meter By Direct Method	100 μ A to 100mA	0.080 % to 0.015%
			100 mA to 1 A	0.015 % to 0.088 %
			1 A to 10 A	0.088% to 0.11%
			10 A to 20 A	0.11% to 0.11 %
3	AC Voltage (50Hz to 1kHz)	Using 6½ Digit Precision Multi meter By Direct Method	1 mV to 100mV	0.257 % to 0.032
			100 mV to 1 V	0.032 % to 0.026 %
			1 V to 100 V	0.026% to 0.029%
			100 V to 1000 V	0.029% to 0.040%

Jimanshu
Dealing Officer

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Electro-Technical Calibration (Laboratory based)

4	AC Voltage (50Hz to 1kHz)	Using 8½ Reference Multi meter By Direct Method	10 mV to 100 mV	0.089 % to 0.039 %
			100 mV to 100 V	0.039 % to 0.029 %
			100 V to 1000 V	0.029 % to 0.040 %
5	AC High Voltage (50Hz)	Using HV Probe & DMM By Direct Method	1 kV to 25 kV	5.4 % to 5.7 %
			25 kV to 100 kV	5.7 %
6	AC Power-1Phase (50Hz) 60V to 240V, 0.1A to 5A, 0.5 Lead/Lag to UPF	Using AC PowerMeter	3 W to 1200 W	0.41 % to 0.24%
7	Capacitance (1 kHz)	Using LCR Meter By Direct Method	1 nF to 10 nF	3% to 1.3%
			10 nF to 100 nF	1.3% to 1.18%
			100 nF to 1µF	1.18% to 6%
			1µF to 10 µF	6% to 1.2%
8	Capacitance (1 kHz)	Using 6½ Digit Precision Multi meter By Direct Method	500 pF to 1 nF	2.1 % to 0.25 %
			10 nF to 300 nF	0.19 % to 0.35 %

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Electro-Technical Calibration (Laboratory based)

9	Capacitance (100 Hz)	Using 6½ Digit Precision Multi meter By Direct Method	700 nF to 3 μ F	0.135 % to 0.35%
			3 μ F to 100 μ F	0.48 % to 0.64 %
10	Inductance (1 kHz)	Using LCR Meter By Direct Method	1 mH to 10 mH	2.5% to 2.3%
			10 mH to 100 mH	2.3% to 2.32%
			100 mH to 1 H	2.32% 2.3%
			1 H to 10 H	2.3% to 2.3%
11	Resistance	Using LCR Meter By Direct Method	50 ohm to 100 ohm	0.176 % to 0.088%
			100 ohm to 1 kohm	0.088% to 0.3%
			1 Kohm to 10 kohm	0.3% to 0.03 %
			10 Kohm to 100kohm	0.03% to 0.0034%
			100kohm to 1Mohm	0.0034% 0.34 %

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Electro-Technical Calibration (Laboratory based)

Group -Alternating Current (Measure Mode)				
1	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	1 A to 10 A	0.020% to 0.038%
2	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	10 A to 20 A	0.038% to 0.044 %
3	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	100 μ A to 100mA	0.080 % to 0.015%
4	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	100 mA to 1 A	0.015 % to 0.020 %
5	AC Current (<1GHz)	Ac Power (1-Phase & 3-Phase @ 50 Hz, 24V to 240V, 0.1A to 20A, 0.2, Lead/Lag to UPF by using Power logger comparison method	2.4 W to 4.8 W	0.20% to 0.22%

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Electro-Technical Calibration (Laboratory based)

6	AC Voltage (50Hz to 10kHz)	Using 8½ Reference Multimeter By Comparison Method	10 mV to 100 mV	0.089 % to 0.025 %
7	AC Voltage (50Hz to 10kHz)	Using 8½ Reference Multimeter By Comparison Method	100 V to 1000 V	0.029 % to 0.040 %
8	DC Current	Using 8½ Reference Multimeter By Comparison Method	10 μ A to 1 mA	0.009 % to 0.004 %
9	DC Current	Using 8½ Reference Multimeter By Comparison Method	10 A to 20 A	0.12 % to 0.13 %
10	DC Current	Using 8½ Reference Multimeter By Comparison Method	1 mA to 100 mA	0.004 % to 0.033 %
11	DC Current	Using 8½ Reference multimeter By Comparison Method	100 mA to 10 A	0.033 % to 0.12 %

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Electro-Technical Calibration (Laboratory based)

12	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	1 mV to 200 mV	0.0437 % to 0.117 %
13	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	200 mV to 200 V	0.117 % to 0.0194 %
14	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	200 V to 1000 V	0.0194 % to 0.175 %
15	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	1 mOhm to 1 Ohm	0.5 % to 0.006 %
16	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	100 k ohm to 10 M ohm	0.004 % to 0.93 %
17	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	100 ohm to 100 kohm	0.0068 % to 0.004 %

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Electro-Technical Calibration (Laboratory based)

18	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	10 Mohm to 20 Gohm	0.93 % to 0.927 %
19	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	1 Ohm to 10 Ohm	0.006% to 0.273 %
20	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	10 Ohm to 100 Ohm	0.273 % to 0.0068 %

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Electro-Technical Calibration (Laboratory based)

Group: Alternate Current (Source Mode)				
1	Inductance (1kHz)	Using Decade Inductance Box by Direct Method	100 μ H to 10 H	1.27 % to 1.12 %
2	Capacitance (1kHz)	Using Multi product Calibrator by Direct Method	500 pF to 1 nF	5.6 % to 1.74 %
			1 nF to 10 nF	1.74 % to 0.42 %
			10 nF to 300 nF	0.41% to 0.34 %
3	Capacitance (100 Hz)	Using Multi product Calibrator by Direct Method	700 nF to 3 μ F	0.129 % to 0.48 %
			3 μ F to 100 μ F	0.48 % to 0.64 %
4	AC Voltage (50 Hz to 10 kHz)	Using Multi product Calibrator by Direct Method	3 mV to 30 mV	0.25% to 0.040%
			30mV to 100mV	0.04 % to 0.032 %
			100 mV to 1 V	0.032 % to 0.035 %
			1 V to 30 V	0.035 % to 0.022%
			30 V to 300 V	0.022 % to 0.025%
300 V to 1000 V	0.025 % to 0.039%			

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Electro-Technical Calibration (Laboratory based)

5	AC Current (50 Hz to1 kHz)	Using Multi product Calibrator by Direct Method	30 μ A to 300 μ A	0.68 % to 0.27 %
			300 μ A to 300 mA	0.27 % to 0.13 %
			300 mA to 3 A	0.13 % to 0.20 %
			3 A to 20 A	0.20 % to 0.11%
6	AC Current (50Hz)	Using Multifunction Calibrator with current coil by Direct Method	20 A to 1000 A	0.11 % to 0.34 %
7	AC power-1 Phase (50Hz) 120v to 240V, 0.1 A to 20A, 0.2 Lead/Lag to UPF	Using Multi Product Calibrator by Direct Method	2.4 W to 4.8 kW	0.27 % to 0.15 %
8	AC Resistance(1kHz)	Using Decade Resistance Box By Direct Method	50 ohm to 500 ohm	0.126% to 0.116%
			1 kohm to 500 kohm	0.15% to 0.0003%
			500 kohm to 1Mohm	0.0003% to 0.14%
9	Power Factor	Using Multi Product Calibrator by Direct Method	0.2 PF Lead/Lag to 1 UPF	0.76 % to 0.65 %
10	AC Energy 1-phase & 3-phase (@ 50Hz)	Using three phase Energy Source with built in Counter	65/ 0.5 / 0.5 V/A Lead/L to 240 / 5 /1/ V/A/PF	0.72 % to 0.4 %

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Electro-Technical Calibration (Laboratory based)

Group: Direct Current (Measure Mode)				
1	DC Current	Using 6½ Digit Precision Multi meter By Direct Method	10 μ A to 1mA	0.248 % to 0.030 %
			1 mA to 1 A	0.030 % to 0.028 %
			1 A to 10 A	0.028 % to 0.121 %
2	DC Voltage	Using 6½ Digit Precision Multi meter By Direct Method	1 mV to 100 mV	0.17 % to 0.039%
			100 mV to 10 V	0.039% to 0.017%
			10V to 100 V	0.017% to 0.024%
			100 V to 1000 V	0.024 %
3	DC High Voltage	Using HV Probe & DMM By Direct Method	1 kV to 10 kV	3.1 % to 5.8 %
			10 KV to 100KV	5.8%
4	DC Voltage	Using 8½ Digit Precision Multi meter By Direct Method	1 mV to 200 mV	0.0437 % to 0.117 %
			200 mV to 200 V	0.117 % to 0.0194 %
			200 V to 1000 V	0.0194 % to 0.175 %

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Electro-Technical Calibration (Laboratory based)

5	Dc Current	Using 8½ Digit Precision Multi meter By Direct Method	10 μ A to 1 mA	0.009% to 0.03%
			1 mA to 100 mA	0.03 % to 0.033 %
			100 mA to 10 A	0.033 % to 0.12 %
			10 A to 20 A	0.12 % to 0.13 %
6	DC Current	Using DMM with Current Shunt by Direct Method	10 A to 500 A	0.20 % to 1.77 %
7	DC Resistance (2 Wire) & (4 wire)	Using 6½ Digit Precision Multi meter By Direct Method	1 Ohm to 10 Ohm	0.25 % to 0.12 %
			10 Ohm to 100 ohm	0.12 % to 0.13 %
			100 Ohm to 100 Kohm	0.13 % to 0.038%
			100 kohm to 10 Mohm	0.38 % to 0.024 %
			10 Mohm to 100 Mohm	0.24 % to 0.69 %
			100 Mohm to 1 Gohm	0.69 % to 2.41 %

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Electro-Technical Calibration (Laboratory based)

8	DC Resistance (2 Wire) & (4 wire)	Using 8½ Reference Multi meter By Direct Method	1 m Ohm to 1 Ohm	0.5 % to 0.006 %
			10 m Ohm to 1 Ohm	0.5 % to 0.006 %
			1 Ohm to 10 Ohm	0.006 % to 0.273 %
			10 Ohm to 100 Ohm	0.273 % to 0.0068 %
			100 ohm to 100 kohm	0.0068 % to 0.004 %
			100 kohm to 10 M ohm	0.004 % to 0.93 %
			10 Mohm to 20 Gohm	0.93 % to 0.927 %

Group: Direct Current (Source Mode)

1	DC Current	Using Multi Product Calibrator By Direct Method	10 μ A to 100 μ A	0.075 % to 0.012 %
			100 μ A to 1 mA	0.012 % to 0.0052 %
			1 mA to 1 A	0.0052 % to 0.023 %
			1 A to 10 A	0.023 % to 0.12 %
			10 A to 20 A	0.12 % to 0.06 %

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Electro-Technical Calibration (Laboratory based)

2	DC Current	Using Current coil By Direct Method	20 A to 1000 A	0.06 % to 3 %
3	DC Voltage	Using Multi product Calibrator By Direct Method	1 mV to 100 mV	0.75% to 0.0017 %
			100 mV to 10 V	0.0017%
			10 V to 100 V	0.0017% to 0.0024%
			100 V to 1000 V	0.0024% to 0.001 %
4	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	0.58 % to 0.012 %
			1 Ohm to 1 Kohm	0.012%to 0.06%
			1 kohm to 100 kohm	0.06%
5	Resistance (0.001) (4 Wire)	Using Standard Resistors at discrete Values by direct Method	0.001 Ohm	0.35 %
			0.01 ohm	0.14%
			0.1 ohm	0.03 %

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EElectro-Technical Calibration (Laboratory based)

6	Resistance (4Wire)	Using Multi Product Calibrator by Direct Method	1 Ohm to 100 Ohm	0.012%
			100 Ohm to 1 kohm	0.012% to 0.004 %
7	Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 kohm to 1 Mohm	0.0040 % to 0.013 %
8	Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.018 %
			10 Mohm to 300 Mohm	0.0501 % to 0.66%
			300 Mohm to 1 Gohm	0.66 % to 1.8%
9	Resistance (2 Wire)	Using Decade Mega Ohm Box by DirectMethod	0.1 Mohm to 1 Gohm	1.8 %
			1 Gohm to 1000 Gohm	6.4 %

Group: Electrical Equipment (Source Mode)

1	Oscilloscope (Amplitude Signal)	Using Multi Product Calibrator by Direct Method	2.5 mV to 130 V	0.248 % to 0.28%
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Electro-Technical Calibration (Laboratory based)

2	Oscilloscope (Amplitude Square Wave @ 1 kHz)	Using Multi Product Calibrator by Direct Method	10 mV peak to 55 V Peak	0.65 % to 0.32 %
3	Oscilloscope (Band Width)	Using Multi product Calibrator by Direct Method	50 kHz to 1 GHz	0.577% to 5.77%
4	Oscilloscope (Time Marker)	Using Multi product Calibrator By Direct Method	1 ns to 1s	0.00029 % to 0.0577 %
5	Oscilloscope Band width	Using RF Reference Source by Direct Method	1 GHz to 8 GHz	0.000076% to 0.01%
6	RF Power(10 MHz to 18 GHz) (Measure)	Using RF Source & RF Power Sensor by Direct Method	-20 dBm to 13 dBm	0.24 dB to 0.26 dB
7	Attenuation Power (10 MHz to 18 GHz) (Measure)	Using RF Source & RF Power Sensor by Direct Method	10 dB to 30 dB	0.6 dB to 1.20 dB
8	RF Power @50 Ohm (1MHz to 4 GHz)	Using RF Reference source by direct method	-37 dBm to 13 dBm	.21 dB to 405 dB

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Electro-Technical Calibration (Laboratory based)

9	RF Power @ 50 Ohm (10 MHz to 18 GHz)	Using RF Reference source by direct method	-60 dBm to 13 dBm	0.61 dB to 1.18 dB
10	Frequency (Source)	Using RF Reference source by Direct Method	1 MHz to 4 Ghz	0.00000082% to 0.000029%
11	Frequency (Source)	Using RF Reference source by Direct Method	4 MHz to 27 Ghz	0.000029% to 0.000043%
12	Amplitude Modulation (AM) Measure CW:10 MHz to 1000 MHz Modulation Rate: 1kHz to 10kHz AM Depth	Using RF Reference Source by Direct Method	1% to 98%	2.1%
13	Frequency Modulation (FM) Measure/Generate CW:10 MHz to 1000 MHz Modulation Rate: 1kHz to 10 kHz FM Deviation	Using RF Reference Source by Direct Method	10MHz to 1000MHz	2.1%

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 135)

Laboratory Name: EXCEL Calibration Private Limited
Plot No: A – 5/9, 1st Floor, Road No.1, IDA Nacharam,
Hyderabad (Telangana) – 500076, India

Validity: 04.10.2024 to 03.10.2026

Amended on N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Electro-Technical Calibration (Laboratory based)

Group - Temperature Simulation (All Type T/C) (Measure Mode)

1	E- Type	Using Multi Product Calibrator By Direct Method	-250 °C to 1000 °C	0.59°C
2	J- Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1200 °C	0.59°C
3	K-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C
4	N- Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1300 °C	0.72°C
5	PT- 100 RTD (4 Wire)	Using Multi Product Calibrator By Direct Method	-200 °C to 800 °C	0.40°C

Jimanshu
Dealing Officer

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Electro-Technical Calibration (Laboratory based)

6	R-Type	Using Multi Product Calibrator By Direct Method	300 °C to 1700 °C	0.80°C
7	S-Type	Using Multi Product Calibrator By Direct Method	300 °C to 1700 °C	0.80°C
8	B- Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.26°C
9	T- Type	Using Multi Product Calibrator By Direct Method	-200 °C to 400 °C	0.37°C

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Electro-Technical Calibration (Laboratory based)

Group - Temperature Simulation (All Type T/C) (Source Mode)				
1	E-Type	Using Multi Product Calibrator By Direct Method	-250 °C to 1000 °C	0.59 °C
2	J-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1200 °C	0.59°C
3	K-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C
4	N-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1300 °C	0.72°C
5	R-Type	Using Multi Product Calibrator By Direct Method	250 °C to 1700 °C	0.80°C
6	RTD (PT-100) (4 Wire)	Using Multi Product Calibrator By Direct Method	-200 °C to 800 °C	0.40°C

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Electro-Technical Calibration (Laboratory based)

7	S-Type	Using Multi Product Calibrator ByDirect Method	250 °C to 1700 °C	0.80°C
8	T-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 400 °C	0.73°C
9	B- Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.26°C

Group: Temperature Simulation (Source Mode)

1	Indicator of pH Meter (simulation method)	Using Multi Product Calibrator By Direct Method	0 pH to 14 Ph	0.59%
2	Indicator of TDS/ Conductivity Meter (simulation) (1 μ S to 10000 μ S)	Using Multi Product Calibrator by Direct Method	0.5 μ S/cm to 1000 mS/cm	1 % to 25 %

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Electro-Technical Calibration (Laboratory based)

Group-Time & Frequency (Source Mode)

1	Frequency	Using 6½ Digit Precision multi meter By Direct Method	10 Hz to 1 MHz	0.00062 % to 0.0085 %
2	Time Interval / programmable timers	Using Time Totalizer By Comparison Method	1 Sec to 9000 Sec	6.9 % to 0.08 %
3	Frequency	Using Multi Product Calibrator By Direct Method	10 Hz to 1 MHz	0.58 % to 0.036 %

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Electro-Technical Calibration (At Site)

Group: Alternate Current (Measure Mode)				
1	AC Current @ 50Hz	Using 6½ Precision Multi meter By Direct Method	100 μ A to 100mA	0.25% to 0.071%
			100 mA to 1A	0.071% to 0.071%
			1 A to 10 A	0.071% to 0.095 %
2	AC Current @ 50Hz	Using 8½ Reference Multi meter By Direct Method	100 μ A to 100mA	0.080 % to 0.015%
			100 mA to 1 A	0.015 % to 0.088 %
			1 A to 10 A	0.088% to 0.11%
			10 A to 20 A	0.11% to 0.11 %
3	AC Voltage (50Hz to 1kHz)	Using 6½ Digit Precision Multi meter By Direct Method	1 mV to 100mV	0.257 % to 0.032
			100 mV to 1 V	0.032 % to 0.026 %
			1 V to 100 V	0.026% to 0.029%
			100 V to 1000 V	0.029% to 0.040%
4	AC Voltage (50Hz to 1kHz)	Using 8½ Reference Multi meter By Direct Method	10 mV to 100 mV	0.089 % to 0.039 %
			100 mV to 100 V	0.039 % to 0.029 %
			100 V to 1000 V	0.029 % to 0.040 %

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Electro-Technical Calibration (At Site)

5	AC High Voltage (50Hz)	Using HV Probe & DMM By Direct Method	1 kV to 25 kV	5.4 % to 5.7 %
			25 kV to 100 kV	5.7 %
6	AC Power-1Phase (50Hz) 60V to 240V, 0.1A to 5A, 0.5 Lead/Lag to UPF	Using AC PowerMeter	3 W to 1200 W	0.41 % to 0.24%
7	Capacitance (1 kHz)	Capacitance (1 kHz)	1 nF to 10 nF	3% to 1.3%
			10 nF to 100 nF	1.3% to 1.18%
			100 nF to 1 μ F	1.18% to 6%
			1 μ F to 10 μ F	6% to 1.2%
8	Capacitance (1 kHz)	Using 6½ Digit Precision Multi meter By Direct Method	500 pF to 1 nF	2.1 % to 0.25 %
			10 nF to 300 nF	0.19 % to 0.35 %

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Electro-Technical Calibration (At Site)

9	Capacitance (100 Hz)	Using 6½ Digit Precision Multi meter By Direct Method	700 nF to 3 μ F	0.135 % to 0.35%
			3 μ F to 100 μ F	0.48 % to 0.64 %
10	Inductance (1 kHz)	Using LCR Meter By Direct Method	1 mH to 10 mH	2.5% to 2.3%
			10 mH to 100 mH	2.3% to 2.32%
			100 mH to 1 H	2.32% 2.3%
			1 H to 10 H	2.3% to 2.3%
11	Resistance	Using LCR Meter By Direct Method	50 ohm to 100 ohm	0.176 % to 0.088%
			100 ohm to 1 kohm	0.088% to 0.3%
			1 Kohm to 10 kohm	0.3% to 0.03 %
			10 Kohm to 100kohm	0.03% to 0.0034%
			100kohm to 1Mohm	0.0034% 0.34 %

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Electro-Technical Calibration (At Site)

Group: Alternating Current (Measure Mode)				
1	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	1 A to 10 A	0.020% to 0.038%
2	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	10 A to 20 A	0.038% to 0.044 %
3	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	100 μ A to 100mA	0.080 % to 0.015%
4	AC Current (50Hz to 1kHz)	Using 8½ Reference Multimeter By Comparison Method	100 mA to 1 A	0.015 % to 0.020 %

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Electro-Technical Calibration (At Site)

5	AC Current (<1GHz)	Ac Power (1-Phase & 3-Phase @ 50 Hz, 24V to 240V, 0.1A to 20A, 0.2, Lead/Lag to UPF by using Power logger comparison method	2.4 W to 4.8 W	0.20% to 0.22%
6	AC Voltage (50Hz to 10kHz)	Using 8½ Reference Multimeter By Comparison Method	10 mV to 100 mV	0.089 % to 0.025 %
7	AC Voltage (50Hz to 10kHz)	Using 8½ Reference Multimeter By Comparison Method	100 V to 1000 V	0.029 % to 0.040 %
8	DC Current	Using 8½ Reference Multimeter By Comparison Method	10 μ A to 1 mA	0.009 % to 0.004 %
9	DC Current	Using 8½ Reference Multimeter By Comparison Method	10 A to 20 A	0.12 % to 0.13 %
10	DC Current	Using 8½ Reference Multimeter By Comparison Method	1 mA to 100 mA	0.004 % to 0.033 %

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Electro-Technical Calibration (At Site)

11	DC Current	Using 8½ Reference multimeter By Comparison Method	100 mA to 10 A	0.033 % to 0.12 %
12	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	1 mV to 200 mV	0.0437 % to 0.117 %
13	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	200 mV to 200 V	0.117 % to 0.0194 %
14	DC Voltage	Using 8½ Reference Multimeter By Comparison Method	200 V to 1000 V	0.0194 % to 0.175 %
15	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	1 mOhm to 1 Ohm	0.5 % to 0.006 %
16	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	100 kohm to 10 Mohm	0.004 % to 0.93 %

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Electro-Technical Calibration (At Site)

17	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	100 ohm to 100 kohm	0.0068 % to 0.004 %
18	DC Resistance (2 Wire)	Using 8½ Reference Multimeter By Comparison Method	10 Mohm to 20 Gohm	0.93 % to 0.927 %
19	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	1 Ohm to 10 Ohm	0.006% to 0.273 %
20	DC Resistance (4 Wire)	Using 8½ Reference Multimeter By Comparison Method	10 Ohm to 100 Ohm	0.273 % to 0.0068 %
Group: Alternate Current (Source Mode)				
1	Inductance (1kHz)	Using Decade Inductance Box by Direct Method	100 μ H to 10 H	1.27 % to 1.12 %
2	Capacitance (1kHz)	Using Multi product Calibrator by Direct Method	500 pF to 1 nF	5.6 % to 1.74 %
			1 nF to 10 nF	1.74 % to 0.42 %
			10 nF to 300 nF	0.41% to 0.34 %

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Electro-Technical Calibration (At Site)

3	Capacitance (100 Hz)	Using Multi product Calibrator by Direct Method	700 nF to 3 μ F	0.129 % to 0.48 %
			3 μ F to 100 μ F	0.48 % to 0.64 %
4	AC Voltage (50 Hz to 10 kHz)	Using Multi product Calibrator by Direct Method	3 mV to 30 mV	0.25% to 0.040%
			30mV to 100mV	0.04 % to 0.032 %
			100 mV to 1 V	0.032 % to 0.035 %
			1 V to 30 V	0.035 % to 0.022%
			30 V to 300 V	0.022 % to 0.025%
			300 V to 1000 V	0.025 % to 0.039%
5	AC Current (50 Hz to1 kHz)	Using Multi product Calibrator by Direct Method	30 μ A to 300 μ A	0.68 % to 0.27 %
			300 μ A to 300 mA	0.27 % to 0.13 %
			300 mA to 3 A	0.13 % to 0.20 %
			3 A to 20 A	0.20 % to 0.11%

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Electro-Technical Calibration (At Site)

6	AC Current (50Hz)	Using Multifunction Calibrator with current coil by Direct Method	20 A to 1000 A	0.11 % to 0.34 %
7	AC power-1 Phase (50Hz) 120v to 240V, 0.1 A to 20A, 0.2 Lead/Lag to UPF	Using Multi Product Calibrator by Direct Method	2.4 W to 4.8 kW	0.27 % to 0.15 %
8	AC Resistance(1kHz)	Using Decade Resistance Box By Direct Method	50 ohm to 500 ohm	0.126% to 0.116%
			1 kohm to 500 kohm	0.15% to 0.0003%
			500 kohm to 1Mohm	0.0003% to 0.14%
9	Power Factor	Using Multi Product Calibrator by Direct Method	0.2 PF Lead/Lag to 1 UPF	0.76 % to 0.65 %
10	AC Energy 1-phase& 3-phase (@ 50Hz)	Using three phase Energy Source with built in Counter	65/ 0.5 / 0.5 V/A Lead/L to 240 / 5 /1/ V/A/PF	0.72 % to 0.4 %

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Electro-Technical Calibration (At Site)

Group: Direct Current (Measure Mode)				
1	DC Current	Using 6½ Digit Precision Multi meter By Direct Method	10 μ A to 1mA	0.248 % to 0.030 %
			1 mA to 1 A	0.030 % to 0.028 %
			1 A to 10 A	0.028 % to 0.121 %
2	DC Voltage	Using 6½ Digit Precision Multi meter By Direct Method	1 mV to 100 mV	0.17 % to 0.039%
			100 mV to 10 V	0.039% to 0.017%
			10V to 100V	0.017% to 0.024%
			100 V to 1000 V	0.024 %
3	DC High Voltage	Using HV Probe & DMM By Direct Method	1 kV to 10 kV	3.1 % to 5.8 %
			10 KV to 100KV	5.8%
4	DC Voltage	Using 8½ Digit Precision Multi meter By Direct Method	1 mV to 200 mV	0.0437 % to 0.117 %
			200 mV to 200 V	0.117 % to 0.0194 %
			200 V to 1000 V	0.0194 % to 0.175 %

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Electro-Technical Calibration (At Site)

5	Dc Current	Using 8½ Digit Precision Multi meter By Direct Method	10 μ A to 1 mA	0.009% to 0.03%
			1 mA to 100 mA	0.03 % to 0.033 %
			100 mA to 10 A	0.033 % to 0.12 %
			10 A to 20 A	0.12 % to 0.13 %
6	DC Current	Using DMM with Current Shunt by Direct Method	10 A to 500 A	0.20 % to 1.77 %
7	DC Resistance (2 Wire) & (4 wire)	Using 6½ Digit Precision Multi meter By Direct Method	1 Ohm to 10 Ohm	0.25 % to 0.12 %
			10 Ohm to 100 ohm	0.12 % to 0.13 %
			100 Ohm to 100 Kohm	0.13 % to 0.038%
			100 kohm to 10 Mohm	0.38 % to 0.024 %
			10 Mohm to 100 Mohm	0.24 % to 0.69 %
100 Mohm to 1 Gohm	0.69 % to 2.41 %			

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Electro-Technical Calibration (At Site)

8	DC Resistance (2 Wire) & (4 wire)	Using 8½ Reference Multi meter By Direct Method	1 m Ohm to 1 Ohm	0.5 % to 0.006 %
			10 m Ohm to 1 Ohm	0.5 % to 0.006 %
			1 Ohm to 10 Ohm	0.006 % to 0.273 %
			10 Ohm to 100 Ohm	0.273 % 0.0068 %
			100 ohm to 100 kohm	0.0068 % to 0.004 %
			100 kohm to 10 M ohm	0.004 % to 0.93 %
			10 Mohm to 20 Gohm	0.93 % to 0.927 %

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Electro-Technical Calibration (At Site)

Group-Direct Current (Source Mode)				
1	DC Current	Using Multi Product Calibrator By Direct Method	10 μ A to 100 μ A	0.075 % to 0.012 %
			100 μ A to 1 mA	0.012 % to 0.0052 %
			1 mA to 1 A	0.0052 % to 0.023 %
			1 A to 10 A	0.023 % to 0.12 %
			10 A to 20 A	0.12 % to 0.06 %
2	DC Current	Using Current coil By DirectMethod	20 A to 1000 A	0.06 % to 3 %
3	DC Voltage	Using Multi product Calibrator By Direct Method	1 mV to 100 mV	0.75% to 0.0017 %
			100 mV to 10 V	0.0017%
			10 V to 100 V	0.0017% to 0.0024%
			100 V to 1000 V	0.0024% to 0.001 %
4	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	0.58 % to 0.012 %
			1 Ohm to 1 Kohm	0.012% to 0.06%
			1 kohm to 100 kohm	0.06%

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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 - 135)

Laboratory Name: EXCEL Calibration Private Limited
Plot No: A – 5/9, 1st Floor, Road No.1, IDA Nacharam,
Hyderabad (Telangana) – 500076, India

Validity: 04.10.2024 to 03.10.2026

Amended on N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Electro-Technical Calibration (At Site)

5	Resistance (0.001) (4 Wire)	Using Standard Resistors at discrete Values by direct Method	0.001 Ohm	0.35 %
			0.01 ohm	0.14%
			0.1 ohm	0.03 %
6	Resistance (4Wire)	Using Multi Product Calibrator by Direct Method	1 Ohm to 100 Ohm	0.012%
			100 Ohm to 1 kohm	0.012% to 0.004 %
7	Resistance (2 Wire/ 4 Wire)	Using Multi Product Calibrator by Direct Method	1 kohm to 1 Mohm	0.0040 % to 0.013 %
8	Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.018 %
			10 Mohm to 300 Mohm	0.0501 % to 0.66%
			300 Mohm to 1 Gohm	0.66 % to 1.8%
9	Resistance (2 Wire)	Using Decade Mega Ohm Box by DirectMethod	0.1 Mohm to 1 Gohm	1.8 %
			1 Gohm to 1000 Gohm	6.4 %

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Electro-Technical Calibration (At Site)

Group: Electrical Equipment (Source Mode)				
1	Oscilloscope (Amplitude Signal)	Using Multi Product Calibrator by Direct Method	2.5 mV to 130 V	0.248 % to 0.28%
2	Oscilloscope (Amplitude Square Wave @ 1 kHz)	Using Multi Product Calibrator by Direct Method	10 mV peak to 55 V Peak	0.65 % to 0.32 %
3	Oscilloscope (Band Width)	Using Multi product Calibrator by Direct Method	50 kHz to 1 GHz	0.577% to 5.77%
4	Oscilloscope (Time Marker)	Using Multi product Calibrator By Direct Method	1 ns to 1s	0.00029 % to 0.0577 %
5	Oscilloscope Band width	Using RF Reference Source by Direct Method	1 GHz to 8 GHz	0.000076% to 0.01%

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Electro-Technical Calibration (At Site)

6	RF Power(10 MHz to 18 GHz) (Measure)	Using RF Source & RF Power Sensor by Direct Method	-20 dBm to 13 dBm	0.24 dB to 0.26 dB
7	Attenuation Power (10 MHz to 18 GHz) (Measure)	Using RF Source & RF Power Sensor by Direct Method	10 dB to 30 dB	0.6 dB to 1.20 dB
8	RF Power @50 Ohm (1MHz to 4 GHz)	Using RF Reference source by direct method	-37 dBm to 13 dBm	0.21 dB to 405 dB
9	RF Power @ 50 Ohm (10 MHz to 18 GHz)	Using RF Reference source by direct method	-60 dBm to 13 dBm	0.61 dB to 1.18 dB
10	Frequency (Source)	Using RF Reference source by Direct Method	1 MHz to 4 Ghz	0.00000082% to 0.000029%
11	Frequency (Source)	Using RF Reference source by Direct Method	4 MHz to 27 Ghz	0.000029% to 0.000043%

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Electro-Technical Calibration (At Site)

12	Amplitude Modulation (AM) Measure CW:10 MHz to 1000 MHz Modulation Rate: 1kHz to 10kHz AM Depth	Using RF Reference Source by Direct Method	1% to 98%	2.1%
13	Frequency Modulation (FM) Measure/Generate CW:10 MHz to 1000 MHz Modulation Rate: 1kHz to 10 kHz FM Deviation	Using RF Reference Source by Direct Method	10MHz to 1000MHz	2.1%

Group : Temperature Simulation (All Type T/C) (Measure Mode)

1	E-Type	Using Multi Product Calibrator By Direct Method	-250 °C to 1000 °C	0.59 °C
2	J-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1200 °C	0.59°C
3	K-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C

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Electro-Technical Calibration (At Site)

4	N-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1300 °C	0.72°C
5	R-Type	Using Multi Product Calibrator By Direct Method	250 °C to 1700 °C	0.80°C
6	RTD (PT-100) (4 Wire)	Using Multi Product Calibrator By Direct Method	-200 °C to 800 °C	0.40°C
7	S-Type	Using Multi Product Calibrator By Direct Method	250 °C to 1700 °C	0.80°C
8	T-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 400 °C	0.73°C
9	K- Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C

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Electro-Technical Calibration (At Site)

Group : Temperature Simulation (All Type T/C) (Source Mode)				
1	E-Type	Using Multi Product Calibrator By Direct Method	-250 °C to 1000 °C	0.59 °C
2	J-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1200 °C	0.59°C
3	K-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C
4	N-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1300 °C	0.72°C
5	R-Type	Using Multi Product Calibrator By Direct Method	250 °C to 1700 °C	0.80°C
6	RTD (PT-100) (4 Wire)	Using Multi Product Calibrator By Direct Method	-200 °C to 800 °C	0.40°C

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Electro-Technical Calibration (At Site)

7	S-Type	Using Multi Product Calibrator ByDirect Method	250 °C to 1700 °C	0.80°C
8	T-Type	Using Multi Product Calibrator By Direct Method	-200 °C to 400 °C	0.73°C
9	K- Type	Using Multi Product Calibrator By Direct Method	-200 °C to 1350 °C	0.46°C

Group: Temperature Simulation (Source Mode)

1	Indicator of pH Meter (simulation method)	Using Multi Product Calibrator By Direct Method	0 pH to 14 Ph	0.59%
2	Indicator of TDS/ Conductivity Meter (simulation) (1 μ S to 10000 μ S)	Using Multi Product Calibrator by Direct Method	0.5 μ S/cm to 1000 mS/cm	1 % to 25 %

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Electro-Technical Calibration (At Site)

Group-Temperature Simulation (Source Mode)				
1	Frequency	Using 6½ Digit Precision multi meter By Direct Method	10 Hz to 1 MHz	0.00062 % to 0.0085 %
2	Time Interval / programmable timers	Using Time TotalizerBy Comparison Method	1 Sec to 9000 Sec	6.9 % to 0.08 %
3	Frequency	Using Multi Product Calibrator ByDirect Method	10 Hz to 1 MHz	0.58 % to 0.036 %

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Fluid Flow Calibration (At Site)

Group : Fluid Flow				
1	Flow rate (Medium Water). Rota mater/Gas Flow Meter,Dial flow meter, Digital flow meter Flow Transmitter,Flow Transducer	Using Ultrasonic flow meter By Comparison Method	0.86 to 720m ³ /h	2.28%

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Mechanical Calibration (Laboratory Based)

Group: Acoustics (Noise)				
1	Sound Level Meter	Using Sound Level Calibrator by Comparison Method as per IS: 15575-1: 2016	94dB & 114dB at 1 kHz	0.72dB
Group: Pressure (Pressure Gauge)				
1	Pressure Pneumatic Dead Weight Tester	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)	2 bar to 50 bar	0.06% rdg
2	Pressure Pneumatic Pressure Calibrators, Pressure Gauges and Transducers	Using Dead Weight Tester (Pneumatic) by Comparison method	2 bar to 50 bar	0.01bar
3	Pressure Hydraulic Dead Weight Tester	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)	6 bar to 60 bar	0.016 % rdg
4	Pressure Hydraulic Dead Weight Tester	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)	60 bar to 1200 bar	0.027% rdg

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Mechanical Calibration (Laboratory Based)

5	Absolute Pressure Pneumatic Pressure Gauges, Pressure Indicator, Pressure Transmitter / Transducers and Barometers	Using Absolute Pressure Calibrator with $4^{1/2}$ DMM By Comparison Method as per DKD R6-1 :2014	150 mbar to 1050mbar	1.423mbar
6	Low Pressure Magnehelic Gauge Manometer Pressure Transmitter	Using Low Pressure Calibrator with $4^{1/2}$ DMM By Comparison Methodas per DKD R6-1 :2014	0 Pa to 980 Pa	18.45 Pa
7	Low Pressure Magnehelic Gauge Manometer Pressure Transmitter	Using Low Pressure Calibrator with $4^{1/2}$ DMM By Comparison Methodas per DKD R6-1 :2014	980 Pa to 19600 Pa	18.45 Pa
8	Pneumatic Pressure Gauge Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge / Hand Pump By Comparison	0 bar to 2 bar	0.0214 bar

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Mechanical Calibration (Laboratory Based)

9	Pneumatic Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1 :2014	0 bar to 40 bar	0.035 bar
10	Hydraulic Pressure, Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic Comparator By Comparison Method as per DKD R6-1 :2014	0 bar to 200 bar	0.093bar
11	Hydraulic Pressure, Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic Comparator By Comparison Method as per DKD R6-1 :2014	0 bar to 700 bar	0.62 bar
12	Hydraulic Pressure, Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic Comparator By Comparison Method as per DKD R6-1 :2014	0 bar to 1000 bar	0.62bar

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Mechanical Calibration (Laboratory Based)

13	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD R6-1 :2014	0 to 1600 bar	0.62 bar
14	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD R6-1 :2014	0 to 2500 bar	2.68 bar
15	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD R6-1 :2014	0 to 4000 bar	4.40 bar
16	Pressure Pneumatic, Pressure Calibrators, Pressure Gauges and Transducers	Using Dead Weight Tester (Pneumatic and Vacuum) by Comparison method	15 mbar to 1000mbar	1.24 mbar

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Mechanical Calibration (Laboratory Based)

Group: Vacuum				
1	Vacuum Gauge (Digital, Analog, Transmitter/ Transducer,switch)	Using Digital Pressure Gauge / Vacuum Pump By Comparison Method	- 1 bar to 0 bar	0.048 bar
2	Vacuum (Pneumatic and Vacuum)Dead Weight Tester	Using Dead Weight Tester (Pneumatic and Vacuum) by Comparison method	-15 mbar to -1000mbar	1.24 mbar
Group- Acceleration & speed				
1	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and RPM Source BY Comparison Method Using SANAS TR45-02	10 rpm to 100 rpm	1.0rpm
2	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison MethodBy Using SANAS TR45-02	100 rpm to 1000rpm	2.0rpm

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Mechanical Calibration (Laboratory Based)

3	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and utm Source by Comparison MethodBy Using SANAS TR45-02	1000 rpm to 6000rpm	3.5rpm
4	Tachometer, RPM Indicators (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison MethodBy Using SANAS TR45-02	10 rpm to 1000 rpm	1.0rpm
5	Tachometer, RPM Indicators (Non - Contact Type)	Using Digital Tachometer and RPM Source by Comparison MethodBy Using SANAS TR45-02	1000 rpm to 10000 rpm	3.6 rpm
6	Tachometer, RPM Indicators (Non-Contact Type)	Using Digital Tachometer and RPM Source BY Comparison MethodBy Using SANAS TR45-02	10000 rpm to 90000 rpm	6.3rpm

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Mechanical Calibration (Laboratory Based)

Group- Mass & Volume				
1	Accuracy Class F2 and Coarser	Using F1 Class Standard Weights and Electronic Balance upto 1 kg of d=1, mg 6 kg of d =10 mg 30 kg of d=100 mg Using ABBA Method as per OIML R111:2004	500 g	0.013 g
			1 kg	0.018 g
			2 kg	0.01 g
			5 kg	0.012 g
			10 kg	0.1 g
			20 kg	0.15 g

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Mechanical Calibration (Laboratory Based)

2	Calibration of Class F2 Standard and Coarser Weights	Using E1 Class Standard Weights and Semi Micro Balance by by ABBA Method, Based on (per OIML R-111: 2004)	1 mg	0.010 mg
			2 mg	0.010 mg
			5 mg	0.010 mg
			10 mg	0.011 mg
			20 mg	0.016 mg
			50 mg	0.020 mg
			100 mg	0.020 mg
			200 mg	0.020 mg
			500 mg	0.020 mg
			1 g	0.020 mg
			2 g	0.030 mg
			5 g	0.030 mg
			10 g	0.036 mg
			20 g	0.046 mg
			50 g	0.046 mg
			100 g	0.12 mg
200 g	0.12 mg			

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Mechanical Calibration (Laboratory Based)

Group : Volume				
1	Glass Pipettes (Graduated /non- graduated)and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask Beaker and jar	Using Weighing Balance of Range 6 kg /10 mg and 30 kg /100 mg as per ISO 4787 and ISO/TR 20461	>1 ml to 100 ml	4.6 ml
			100 ml to 500 ml	20.14 ml
			<500 ml to 1000 ml	20.14 ml
			>1000 ml to 2500 ml	20.14 ml
			>5000 ml to 10000 ml	20.14 ml
2	Micro Pipette,Piston Pipette Calibration based on Gravimetric method	Using Weighing balance of d=10 μ g & d=0.001 mg,0.01 mg,and Distilled Water, Based on ISO 8655	20 μ l to 100 μ l	0.39 μ l
			>100 μ l to 1000 μ l	0.31 ml
			>1000 μ l to 5000 μ l	0.85 ml

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Mechanical Calibration (Laboratory Based)

Group :Force				
1	Force Measuring Gauge	Using Newton Weights Load cell with Indicator VDI/VDE - 2624	0 to 5000N	0.10%
2	Force Proving	Using Dead Weights Machine with Stainless Steel Hanger IS 4169-2014 ISO 376-2011	10 to 2000N	0.06%
3	Force Proving	Using Automatic Dead Weights Machine IS 4169-2014 ISO 376-2011	100 to 5000N	0.09%

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Hyderabad (Telangana) – 500076, India

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Mechanical Calibration (Laboratory Based)

Group: (Torque)				
1	Mechanical Torque Generating Device	Torque Wrench Tester by Comparison Method IS 6789: 2017	1Nm to 10Nm	0.75%
2	Mechanical Torque Generating Device	Torque Wrench Tester by Comparison Method IS 6789: 2017	>10 to 200 Nm	0.89%
3	Mechanical Torque Generating Device	Torque Wrench Tester by Comparison Method IS 6789: 2017	>200 to 2000Nm	1.9%
4	Mechanical Torque Measuring Device	Using Dead Weight Torque Calibration System Consisting of Lever Arm Dead Weights. BS 7882: 2017	0.5 Nm to 200 Nm	0.88%
5	Mechanical Torque Measuring Device	Using Dead Weight Torque Calibration System Consisting of Lever Arm Dead Weights. BS 7882: 2017	200Nm to 2000 Nm	0.5%

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Mechanical Calibration (Laboratory Based)

Group: Dimension				
1	Comparator Stand (Flatness of worktable)	Using Lever Dial Gauge, / IS 12937:1990 RA 2020)	Upto 200 mm X 200 mm	2.4 μ m
2	Surface Roughness Master specimen	Using Surface Roughness Tester, Comparison Method	0.40 to 3.19 μ m	8.0%
3	Surface Roughness tester	Using Roughness Master specimen with 3 Ra value, (IS 3073 :1967: RA 2021	30.3 μ m	8.1%
4	Jigs, Fixtures, PCD gauges, lever arm, master Block Linear Measurement	Using CMM By Direct Method	Up to 500 X 600 mm	3.6 μ m
5	Jigs, Fixtures, PCD gauges, lever arm, master Block Angle Measurement	Using CMM By Direct Method	90°	1.6"

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Mechanical Calibration (Laboratory Based)

6	Sphere/Spherical/ Steel Ball/Precision ball-Diameter	Using ULM By Direct Method	Up to 100 mm	1.53 μ m
7	Plain Ring/ Master Ring Gauge/Cylindrical setting master	Using ULM / IS 3544: 2019 R	1.8 mm to 100 mm	4.09 μ m
8	Plain Ring/ Master Ring Gauge/Cylindrical setting master	Using ULM/ IS 3544: 2019 R	>100 mm to 300 mm	7.0 μ m
9	V-Blocks (Squareness)	Using CMM / IS 2949:1992 RA 2017	Upto 300 mm	2.9 μ m
10	V-Blocks (Symmetrically)	Using CMM & Test Mandrel / IS 2949:1992 RA 2017	Upto 300 mm	3.8 μ m
11	V-Blocks (Parallelism)	Using CMM / IS 2949:1992 RA 2017	Upto 300 mm	2.5 μ m

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Mechanical Calibration (Laboratory Based)

12	LVDT Gauge	Using Glass Scale or Slip Gauge Set/ Gauge Block Set/ ULM by Direct Method	Upto 25 mm	2.0 μ m
13	Elongation Gauge	Using 2D Height Gauge/IS 2386 Part-1:1963:RA 2021	4.7mm to 100.5 mm	0.021 mm
14	Cube Mold	Using Digital Caliper and 2D Height Gauge /IS 10086:2021	50mm to 750mm	0.024mm
15	Template	Using Profile Projector by Direct Method	Up to 200 mm	7 μ m
16	Dial Calibration Tester	Using Slip gauge set & Dial Indicator/IS 9483:1993 RA 2020	0 mm to 25 mm	2.2 μ m
17	Weld Gauge, Hi-Lok Gauge Depth	Using Profile Projector by Direct Method	Up to 50mm	0.10 mm

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Mechanical Calibration (Laboratory Based)

18	Weld Gauge, Hi-Lok Gauge-Angle	Using Profile Projector by Direct Method	0-360°	8.01 minute
19	Length Bar/Long Gauge Block	Using CMM / IS: 2984/ISO:2003. 3650,IS:7014:1973	25mm to 600 mm	8.4 μ m
20	Caliper Checker	Using CMM by Direct Method	Upto 600 mm	3.9 μ m
21	Check Master/ Height Master	Using CMM / IS : 13907:1994 RA 2020	Upto 600 mm	7 μ m
22	Straight Edges - (Parallelism)	Using CMM / IS: 12937 : 1990, RA 2020	Upto 600 mm	9.0 μ m
23	Engineer Square/Tri square (Parallelism)	Using CMM/ IS:2103:1980 ,IS 12937:1990	Upto 500 mm	7.2 μ m
24	Engineering Parallels Grade 1 Grade 2 (Parallelism)	Using CMM/IS:4241: 1990	Upto 500 mm	7.2 μ m

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Mechanical Calibration (Laboratory Based)

25	Block Square	Using CMM / IS:4563:1987	Upto 500 mm	6.2 μ m
26	Test Mandrel (Diameter variation)	Using CMM/IS: 2063 part-2:2016/ISO 230-1	Upto 500 mm	3.9 μ m
27	PIE Tape	Using Tape Measuring Machine /IS 1269: 2024 R by Direct Method	Circumference range up to 15000 mm	(42 + L*0.5) μ m on diameter (Where L is in meters)
28	Bore Gauges (Transmission Only)	Using ULM and Dial Calibration Tester / JIS B 7515:1982.	Upto 2 mm	2.3 μ m
29	Coating Thickness Gauge	Using Standard Foil /IS 12554 Part-2:1999 RA 2013	10 μ m to 702 μ m	1.8 μ m
30	Dial Thickness Gauge L.C.0.001mm	Using Gauge Blocks / IS 2092:1983, RA 2019	Upto 100 mm	8 μ m
31	Feeler Gauges	Using ULM/ IS 3179: 1990 RA 2020	Upto 2 mm	1.3 μ m

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Mechanical Calibration (Laboratory Based)

32	Groove Micrometer (LC 0.01 mm)	Using Gauge blocks by Comparison Method	Upto 100 mm	2.89 μ m
33	Height Gauge (digital, dial and Vernier) L.C.0.01mm & coarser	Using Gauge Blocks / Caliper checker/ IS: 2921:2016	Upto 300 mm	8.3 μ m
34	Height Gauge (digital, dial and Vernier) L.C.0.01mm & coarser	Using Gauge Blocks / Caliper checker/ IS: 2921:2016	>300 mm to 600mm	9.5 μ m
35	Height Gauge (digital, dial and Vernier) L.C.0.01mm & coarser	Using Gauge Blocks / Long gauge blocksBy/ IS: 2921:2016	>600 mm to 1000 mm	15.3 μ m
36	Internal Micrometer (screw error & error in length of each extension) L.C:- 0.001 mm & coarser	Using ULM / IS 2966: 1964 RA 2019	Upto 100 mm	7.2 μ m

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Mechanical Calibration (Laboratory Based)

37	Lever Dial Gauge L.C:- 0.001 mm & coarser	Using ULM and Dial Calibration Tester/ IS 11498 : 1985 ,RA 2000	Upto 1 mm	2.2 μ m
38	Millimes	Using ULM By Comparison Method	Upto 1 mm	2.2 μ m
39	Pistol Caliper	Using Gauge blocks By Comparison Method IS 2092:1983 & JIS B7503:2017	Upto 100 mm	28.9 μ m
40	Plunger Dial Gauges L.C.0.001mm & coarser	Using ULM/ Base on IS 2092: 1983 RA 2019	Upto 50 mm	2.89 μ m
41	Radius Gauge/ Form Gauge	Using Profile Projector By Comparison Method IS: 5273:1969 RA 2019	0.5 mm to 100 mm	5.01 μ m

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Mechanical Calibration (Laboratory Based)

42	Steel Scale L.C: 0.05mm or coarser	Using Tape & Scale Measuring Machine IS: 1481:1970 RA 2014	Upto 1000 mm	27 μ m
43	Measuring Tape LC 0.5mm or coarser mm	Using Tape & Scale Measuring Machine IS: 1269 Part I&II:1977 RA 2018	Upto 30 m	27*(L) μ m/mtr, (L in meters
44	Standard Thickness Foils	Using ULM / IS -3179:1990 RA2020	Upto 2 mm	1.8 μ m
45	Ultrasonic Thickness Gauge	Using Gauge Blocks & Long gauge blocks by comparison method	Upto 300 mm	6.92 μ m
46	Three Pin Micrometer	Using set of setting Ring gauges/ (IS 2967 : 1983 RA 2019	2 mm to 100 mm	4.50 μ m

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Mechanical Calibration (Laboratory Based)

47	Caliper(Vernier/Dial/Digital) -L.C.0.01mm & coarser	Using Caliper Checker / Long gauges Blocks By Comparison Method IS:16491 Part-1:2016	Upto 1000 mm	13.6 μ m
48	Vernier Depth Gauge L.C.0.01mm	Using Gauge Blocks / Long gauge blocks IS:16491 Part-1:2016	Upto 600 mm	7.16 μ m
49	Cylindrical Measuring pins	Using Universal Length Measuring Machine / IS –11103:1984 RA 2020	0.1 mm to 20 mm	1.10 μ m
50	Extension Rods Of internal Mic./ Width gauge/Setting Rod of Ext. Mic.	Using Electronic height gauge / IS 2966: 1964 RA 2019	50 mm to 300 mm	7.2 μ m
51	Extension Rods Of internal Mic./ Width gauge/Setting Rod of Ext. Mic.	Using Electronic height gauge / IS 2966: 1964 RA 2019	>300 mm to 600mm	12.10 μ m

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Mechanical Calibration (Laboratory Based)

52	Slip Gauge Grade0, I, II	Using Gauge blocks Comparator & “K” Grade Slip Gauges/ IS 2984 : 2003 RA 2019 & ISO 3650:1998	0.5 mm to 25 mm	0.21 μ m
53	Slip Gauge Grade0, I, II	Using Gauge blocks Comparator & “K” Grade Slip Gauges/ IS 2984 : 2003 RA 2019 & ISO 3650:1998	>25 mm to 50 mm	0.34 μ m
54	Slip Gauge Grade0, I, II	Using Gauge blocks Comparator & “K” Grade Slip Gauges/ IS 2984 : 2003 RA 2019 & ISO 3650:1998	>50 mm to 100 mm	0.66 μ m
55	Thread MeasuringWire- Diameter)	Using Universal Length Measuring Machine / IS- 11103:1984 RA2020, IS 6311:1978 RA 2020, IS 4359:2021	0.17 mm to 6.35mm	1.10 μ m

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Mechanical Calibration (Laboratory Based)

56	Angle Plate/Box angle plate- (Flatness, Squareness Parallelism)	Using CMM / IS – 6232 :1971 RA 2019, IS-2554: 1971 RA 2020, IS-6973: 1973 RA 2020, IS-6985: 1973 RA 2020, IS-2103:1980 RA 2017	Upto 500 mm	3.0 μ m
57	Depth micrometer L.C.:0.01mm	Using Gauge Blocks & Long gauge blocks/ JIS B 7544:1994 & BS 6468:2008	Upto 150 mm	5.8 μ m
58	External Micrometer L.C.0.001 mm	Using Gauge Blocks& Long gaugeblocks/ IS 2967: 1983, RA 2019	Upto 25 mm	1.1 μ m
59	External Micrometer L.C.0.001 mm & coarser	Using Gauge Blocks& Long gaugeblocks/ IS 2967: 1983, RA 2019	>25 mm to 500 mm	9.5 μ m

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Mechanical Calibration (Laboratory Based)

60	External Micrometer L.C.0.01 mm	Using Gauge Blocks & Long gaugeblocks/ IS 2967: 1983, RA 2019	>500 mm to 1000mm	18.0 μ m
61	Plain Plug Gauges	Using ULM/ IS 3455: 1971, RA 2020	2mm to 300 mm	2.3 μ m
62	Plain Plug Gauges	Using FCDM/ IS 3455: 1971, RA 2020	2mm to 175 mm	1.8 μ m
63	Snap Gauge	Using Gauge blocks /ULM/ IS 3455: 1971 RA 2020 & IS7876;1975 RA2020	2mm to 300 mm	4.6 μ m
64	Taper Plain Plug Gauge Position of Gauge Plane (Gauge Length), Major Diameter	Using ULM/ IS 9529:1980:2022 RA	3 mm to 100 mm	3.9 μ m

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Mechanical Calibration (Laboratory Based)

65	Taper Thread Ring Gauge (Effective dia)	Using ULM/ IS 9529:1980:2022 RA	2.0mm to 100 mm	3.48 μ m
66	Thread Plug Gauge– (Effective diameter)	Using ULM / IS 6311: 1978 RA 2020	Upto 100 mm	0.90 μ m
67	Thread Pitch Gauge	Using Profile Projector/ IS 10685: 1983 RA 2019, IS-2334:2001 RA 2019, IS 4218(P-1):2001 RA 2018, IS 6311:1978 RA 2020	0.1 mm to 25 mm	5.01 μ m
68	Thread Plug Gauge– (Effective Diameter)	Using ULM / IS 6311: 1978 RA 2020	>100 mm to 300 mm	2.8 μ m
70	Thread Plug Gauge– (Effective Diameter)	Using FCDM / IS 6311: 1978 RA 2020	Upto 175 mm	0.90 μ m

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Mechanical Calibration (Laboratory Based)

72	Thread Ring Gauge– (Effective diameter)	Using ULM/ IS:2334-2001, RA 2023	1.8 mm to 100 mm	3.59 μ m
73	Thread Ring Gauge- (Effective diameter)	Using Universal Length Measuring Machine/ IS:2334-2001, RA 2023, IS 4218(P-1):2001 RA 2018, IS 6311:1978 RA 2020	>100 mm to 300 mm	3.94 μ m
74	Test Sieve	Using Profile Projector /IS 460 : 2020 R (partI,II,II)	0.032 mm to 10 mm	5.2 μ m
75	Test Sieve	Using Digital Vernier /IS 460: 2020 R (partI, II, II)	>10mm to 300 mm	8.1 μ m

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Mechanical Calibration (At Site)

Group: Pressure				
1	Pneumatic Pressure Gauge Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge / Hand Pump By Comparison Method	0 bar to 2 bar	0.0214 bar
2	Pneumatic Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKDR 6-1: 2014	0 bar to 40 bar	0.035 bar
3	Hydraulic Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic comparator By Comparison Method as per DKD-R 6-1 : 2014	0 bar to 200 bar	0.093bar
4	Hydraulic Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic comparator By Comparison Method as per DKD-R 6-1 : 2014	0 bar to 700 bar	0.62 bar

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Mechanical Calibration (At Site)

5	Hydraulic Pressure Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch	Using Digital Pressure Gauge & Hydraulic comparator By Comparison Method as per DKD-R 6-1 : 2014	0 bar to 1000 bar	0.62 bar
6	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD-R-6-1: 2014	0 to 1600 bar	0.425 bar
7	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD-R-6-1:2014	0 to 2500 bar	0.69 bar
8	Hydraulic Pressure, Pressure Gauge, (Digital, Analog Transmitter, Transducer, Switch)	Using Hydraulic Comparison test pump As per DKD-R-6-1:2014	0 to 4000 bar	4.30 bar

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Mechanical Calibration (At Site)

9	Absolute Pressure Pneumatic Pressure Gauge, Pressure Indicator Pressure Transmitter/ Transducer and Barometers	Using Absolute Pressure Calibrator with 4 ^{1/2} DMM By Comparison Method as per DKD-R 6-1 : 2014	150 mbar to 1050 mbar	1.423 mbar
10	Low Pressure Magnehelic Gauge Manometer Pressure Transmitter	Using Low Pressure Calibrator with 4 ^{1/2} DMM By Comparison Method as per DKD-R 6-1 : 2014	0 Pa to 980 Pa	18.45Pa
11	Low Pressure Magnehelic Gauge Manometer Pressure Transmitter	Using Low Pressure Calibrator with 4 ^{1/2} DMM By Comparison Method as per DKD-R 6-1 : 2014	980 Pa to 19600 Pa	18.45Pa
Group: Vacuum				
1	Vacuum Gauge, Digital Vacuum Gauge, Vacuum Transmitter/ Transducer Vacuum Switch	Using Digital Pressure Gauge/ Vacuum Pump By Comparison Method	-1 bar to 0 bar	0.0007 bar

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Mechanical Calibration (At Site)

Group- Acceleration & speed				
1	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and RPM Source BY Comparison Method Using SANAS TR45-02	10 rpm to 100 rpm	1.0rpm
2	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison MethodBy Using SANAS TR45-02	100 rpm to 1000rpm	2.0rpm
3	Tachometer, Rotation Meters, Tacho Generator (Contact Type)	Using Digital Tachometer and utm Source by Comparison Method By Using SANAS TR45-02	1000 rpm to 6000 rpm	3.5rpm
4	Tachometer, RPM Indicators (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02	10 rpm to 1000 rpm	1.0rpm

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Hyderabad (Telangana) – 500076, India

Validity: 04.10.2024 to 03.10.2026

Amended on N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Mechanical Calibration (At Site)

5	Tachometer, RPM Indicators (Non - Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02	1000 rpm to 10000 rpm	3.6 rpm
6	Tachometer, RPM Indicators (Non-Contact Type)	Using Digital Tachometer and RPM Source BY Comparison MethodBy Using SANAS TR45-02	10000 rpm to 90000 rpm	6.3rpm
7	RPM indicator of Centrifuge, RPM Source / RPM Meter / Rotating Machineries	Using Tachometer by Direct Method	10 rpm to 1000 rpm	1.25rpm
8	RPM indicator of Centrifuge, RPM Source / RPM Meter/ Rotating Machineries	Using Tachometer by Direct Method	1000 rpm to 10000 rpm	6.0rpm

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Mechanical Calibration (At Site)

Group: Mass & Volume				
1	Weighing balance	Weighing Balances d=0.01 mg (Class I and Coarser) Using E1 Class Weights as per OIML R-76: 2006	1 mg to 80 mg	0.08 mg
2	Weighing balance	Weighing Balances d=0.1 mg (Class I and Coarser) Using E2 Class Weights as per OIML R-76: 2006	>80 g to 200 g	1.1 mg
3	Weighing balance	Weighing Balances d=0.1 g (Class II and Coarser) Using F1 Class Weights as per OIML R-76: 2006	>6 kg to 30 kg	2.1 g
4	Weighing balance	Weighing Balances d=10 g (Class IV and Coarser) Using M1 Class Weights as per OIML R-76: 2006	>30 Kg to 100 Kg	8.3 g

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Mechanical Calibration (At Site)

5	Weighing balance	Weighing Balances d=10 mg(Class II and Coarser) Using F1 Class Weights as per OIML R-76: 2006	>1 Kg to 6 Kg	11.43 mg
6	Weighing balance	Weighing Balances d=1 mg(Class II and Coarser) Using F1 Class Weights as per OIML R-76: 2006	>200 g to 1Kg	1.8 mg
7	Weighing balance	Weighing Balances d=200g(Class IV and Coarser) Using M1 Class Weights as per OIML R-76: 2006	>500 Kg to 1000 Kg	200 g
8	Weighing balance	Weighing Balances d=50 g(Class IV and Coarser) Using M1 Class Weights as per OIML R-76: 2006	>100 Kg to 500 Kg	50 g

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Mechanical Calibration (At Site)

Group: Force				
1	UTM ,TTM,CTM, STM	Using Force Proving Ring & Load Cell with Indicator IS 1828 (Part-1)-2022	50kN to 2000kN	0.35%
Group: Dimension				
1	Tape & Scale Calibrator	Using Gauge Block set and Long Gauge Block (0 Grade), Comparison Method	Upto 1000 mm	8.40 μ m
2	Profile Projector – Linear (L.C.0.001mm or coarser)	Using Slip Gauge & Linear Glass Scale / JIS B 7184:2021	Upto 200 mm	4.51 μ m
3	Profile Projector – Magnification (L.C.0.001mm or coarser)	Using Glass Scale & Digimatic caliper/ JIS B 7184:2021	5 X to 100 X	0.22 %

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Mechanical Calibration (At Site)

4	Profile Projector- Angle (L.C. 1 Sec or coarser)	Using Angle Gauge/ JIS B 7184:2021	0° to 360°	2.93 min of arc
5	Surface Plates	Using Precision Spirit Level, LC 10 μ m/mtr. / IS 12937 :1990 RA 2020	Upto 4000 mm X4000 mm	1.4X $\sqrt{L+W}$ /(125)) μ m/mtr Where L&W are in mm
6	Electronic Height Gauge	Using long gauge blocks /IS 13907:1994 RA 2000	Upto 700 mm	9.5 μ m
7	ULM-(Single axis)- L.C.0.0001mm or coarser	Using K grade slip gauge blocks & Long slip gauge By Comparison Method	0.5mm to 300 mm	s2.73 μ m

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Thermal Calibration (Laboratory Based)

Group: Humidity				
1	Thermo Hygrometers, Data Loggers, Humidity Meter with Sensor, Humidity Transmitter @ 25 °C	Using Temperature and Humidity Meter and Humidity generator By Comparison Method	25 % RH to 95 % RH	2.6 % RH
Group: Non-Contact Type (IR/Optical)				
1	Infra-Red Thermometers, Pyrometers,	Using Infrared Thermometer & Black Body Source (emissivity- 1) by Comparison Method	-20 °C to 60 °C	2.7 °C
2	Infra-Red Thermometers, Pyrometers	Using Infrared Thermometer & Black Body Source (emissivity- 1) by Comparison Method	25 °C to 500 °C	3.5 °C
3	Infra-Red Thermometers, Pyrometers	Using Infrared Thermometer & Black Body Source (emissivity- 1) by Comparison Method	500 °C to 1200 °C	5.8 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Thermal Calibration (Laboratory Based)

Group: Temperature				
1	Thermo Hygrometers, Data Loggers, Hygrometer, Humidity Meter with sensor, Humidity Transmitter @ 50% RH	Using Temperature and Humidity Meter and Humidity generator By Comparison Method	5 °C to 50 °C	5.8°C
2	Liquid in Glass Thermometer	Using 4-wire RTD with Digital temp. indicator, Low temperature Liquid Bath & Oil Bath (-80 °C to 50°C) By Comparison method	-80 °C to 50 °C	0.40 °C
3	Liquid in Glass Thermometer	Using 4-wire RTD with Digital temp. indicator, Low temperature Liquid Bath & Oil Bath (50 °C to 250°C) By Comparison method	50 °C to 250 °C	0.42 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Thermal Calibration (Laboratory Based)

4	Temperature Indicator with sensor of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non- medical applications), Centrifuge Chamber, Furnace (Single position, cold chamber, soldering station/hot plate)	Using Standard 4-Wire RTD with Digital Temperature Indicator, By Comparison method	(-)80 °C to 250 °C	0.27°C
5	Temperature Indicator with sensor Dry Block Furnace, Oven, (for non-medical applications), Centrifuge Chamber, Furnace (Single position, , soldering station/hot plate)	Using S-Type Thermocouple with Digital Temperature Indicator by Comparison method	250 °C to 400 °C	1.48°C

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Thermal Calibration (Laboratory Based)

6	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, indicator of Temperature Switches	Using 4-Wire RTD with Digital Temperature Indicator and Liquid Bath by Comparison method	(-80 °C to 50 °C	0.33°C
7	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, indicator of Temperature Switches	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath by Comparison method	(-30 °C to 100 °C	0.33°C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Thermal Calibration (Laboratory Based)

8	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, indicator of Temperature Switches	Using 4-Wire RTD with Digital Temperature Indicator, Oil Bath by Comparison method	50 °C to 250 °C	0.34 °C
9	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, indicator of Temperature Switches	Using S- Type Thermocouple with Digital Temperature Indicator and Dry Bath by Comparison method	600 °C to 1200 °C	1.90 °C

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Thermal Calibration (Laboratory Based)

10	Temperature Indicator with sensor Dry Block Furnace, Oven, (for non-medical applications), Chamber, Furnace (single position)	Using S-Type Thermocouple with Digital Temperature Indicator by Comparison method	250 °C to 400 °C	1.86°C
11	Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, indicator of Temperature Switches	Using Standard S-Type Thermocouple with Digital Temperature Indicator and Dry bath By Comparison method	250 °C to 600 °C	2.07°C
12	Temperature Indicator of Dry Block Furnace, Oven (for non-medical applications) Chamber, Furnace	Using S-Type Thermocouple with Digital Temperature Indicator by Comparison method (Single Position)	600 °C to 1200 °C	2.5 °C

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Thermal Calibration (At Site)

Group -Thermal Onsite				
1	Environmental Chambers, Humidity Chambers (@ 25 °C)	Using Digital Humidity Meter / Data Loggers (SinglePosition) by Comparison method	20 % RH to 95 % RH	2.45 % RH
2	Humidity Chambers, Environmental Chambers (@ 25 °C)	Using Temperatureand Humidity dataloggers (Minimum nine) Multi PositionCalibration By Mapping	20 % RH to 95 % RH	3.0% RH
3	Environmental Chambers, Industrial Furnaces, clean room map(Multi position)	Using Standard Multi Channel Data Logger with RTD sensors by comparison Method	(-)80 °C to 250 °C	1.0 °C
4	Industrial Furnaces, Clean Room Map (Multi Position)	Using Standard Multi Channel Data Loggers with Thermocouples and Portable Data Loggers by comparison Method	250 °C to 1200 °C	4.16 °C

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Thermal Calibration (At Site)

5	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Indicator of Temperature Switches	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath by Comparison method	(-)30 °C to 100 °C	0.33°C
6	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Indicator of Temperature Switches	Using 4- Wire RTD with Digital Temperature Indicator, Oil Bath by Comparison Method	50 °C to 250 °C	0.34°C
7	Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Indicator of Temperature Switches	Using Standard S-Type Thermocouple With Digital Temperature Indicator and Dry Bath By Comparison method	250 °C to 600 °C	2.07 °C

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Thermal Calibration (At Site)

8	RTDs, Thermocouples (With or Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Indicator of Temperature Switches	Using S- Type Thermocouple With Digital Temperature Indicator and Dry Bath by Comparison method	600 °C to 1200 °C	1.90 °C
9	Temperature Indicator with sensor Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non- medical applications), Chamber, Furnace,, soldering station/hot plate (Single position)	Using Standard 4-Wire RTD with Digital Temperature Indicator, By Comparison method	(-)80 °C to 250 °C	0.33°C
10	Temperature Indicator with sensor Of Dry Block ,Furnace, Oven,(for non-medical applications) Chamber,(Single position, soldering station/hot plate)	Using S-Type Thermocouple with Digital Temperature Indicator By Comparison method	250 °C to 400 °C	1.50°C

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Thermal Calibration (At Site)

11	Temperature Indicator of Dry Block Furnace, Oven, (for non- medical applications), Chamber, Furnace , soldering station, hot plate	Using S-Type Thermocouple With Digital Temperature Indicator By Comparison method(Single Position)	600 °C to 1200 °C	2.5 °C
12	Freezers, Ovens, Liquid Baths, Incubators (for nonmedical applications), Environmental Chambers, Autoclaves (for nonmedical applications), Temperature Enclosures, Industrial Furnaces,Clean Room Map	Using Multi channelData Logger with RTD sensors (Multi Position Calibration) By Mapping	(-)-80 °C to 250 °C	1.0°C
13	Temperature Indicator of Dry Block Furnace, Oven, (for non- medical applications), Chamber, Furnace.	Multi-Channel Data Loggers With N-Type Thermocouples and Portable Data Loggers (Multi Position Calibration) By Mapping	250 °C to 1200 °C	4.16°C

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

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