

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

ADCON TEST & CALIBRATION LAB (A Unit of Adcon Instruments Pvt Ltd.)

Plot no-44, Udyog Vihar, Phase -1, Gurugram (Haryana) – 122016, 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- 133

Issue Date: 14.08.2024

Valid Until: 13.08.2026

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


DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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



SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 133)

Laboratory Name: Adcon Test & Calibration Lab (A Unit of Adcon Instruments Pvt. Ltd.)
Plot no – 44, Udyog Vihar, Phase -1, Gurugram (Haryana)- 122016, India

Validity: 14.08.2024 to 13.08.2026

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: (Source mode)				
1.	DC Voltage	Using Multi product calibrator (Fluke- 5522A) by direct method	1mv to 300 mV 300 mV to 3 V 3 V to 300 V 300 V to 1000 V	0.4% to 0.15% 0.15% to 0.12% 0.12% to 0.18% 0.18% to 0.05%
2.	AC Voltage (50 Hz)	Using Multi product calibrator (Fluke- 5522A) by direct method	1 mV to 300 mV 300 mV to 3 V 3 V to 300 V 300 V to 1000 V	0.90% to 0.08% 0.08% to 0.05% 0.05% to 0.04% 0.04%
3.	DC Current	Using Multi product calibrator (Fluke- 5522A) by direct method	1 μ A to 300 μ A 300 μ A to 3 mA 3 mA to 300 mA 300 mA to 3 A 3 A to 20 A	2.28% to 0.16% 0.16% to 0.10% 0.10 % to 0.05% 0.05% to 0.12% 0.12% to 0.15%
		Using Multi product calibrator (Fluke- 5522A) & current coil	20 A to 1000 A	0.30% to 0.50%
4.	AC Current (50 Hz)	Using Multi product calibrator (Fluke- 5522A) by direct method	30 μ A to 3 mA 3 mA to 300 mA 300 mA to 3 A 3 A to 20 A	0.52% to 0.70% 0.70% to 0.20% 0.20% to 0.30% 0.30% to 0.40%
		Using Multi product calibrator (Fluke- 5522A) & current coil	20 A to 1000 A	0.40% to 0.70%

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Validity: 14.08.2024 to 13.08.2026

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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)

5.	DC Resistance	Using standard resistors of fixed value by direct method	1 m Ω 10 m Ω 100 m Ω 1 Ω 10 Ω	0.70% 0.11% 0.08% 0.10% 0.09%
		Using Multi product calibrator (Fluke- 5522A) by direct method	1 Ω to 100 Ω 100 Ω to 100 k Ω 100 k Ω to 100 M Ω 100 M Ω to 1 G Ω	0.12% to 0.05% 0.05% to 0.02% 0.02% to 0.5% 0.5% to 2.0%
6.	Capacitance (1 kHz)	Using Multi product calibrator (Fluke- 5522A) by direct method	1 nF to 1 μ F	1.8% to 0.8%
7.	Capacitance (100 Hz)	Using Multi product calibrator (Fluke- 5522A) by direct method	1 μ F to 100 μ F	1.8% to 0.8%
8.	Power factor (50 Hz) (lag & lead)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.5 to 1 PF	0.008 PF
9.	Active power (1 Φ , 3 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current : 1 A to 5 A (50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	120 W to 1200 W(1 Φ), 360 W to 3600 W(3 Φ)	0.3% to 0.8 %

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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)

10.	Active energy (1 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current :1 A to 5 A(50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.12 kWhr to 1.2 kWhr(3 Φ)	0.3% to 0.8 %
11.	Frequency	Using Multi product calibrator Direct Method (Fluke- 5522A)	10 Hz to 1 MHz	0.3% to 0.04%
12.	Active energy (3 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current : 1 A to 5 A (50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.36 kWhr to 3.6 kWhr(3 Φ)	0.3% to 0.8 %
13.	Resistance @500 V	Using Mega ohm Box by Direct method	100 kohm	0.77%
14.	Resistance @1000 V	Using Mega ohm Box by Direct method	1 Mohm	0.93%
15.	Resistance @2000 V	Using Mega ohm Box by Direct method	10 Mohm	1.53%
16.	Resistance @5000 V	Using Mega ohm Box by Direct method	100 Mohm	1.83%
17.	Resistance @5000 V	Using Mega ohm Box by Direct method	500 Mohm	2.59%
18.	Resistance @5000 V	Using Mega ohm Box by Direct method	1 Gohm	4.80%

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Electro-Technical Calibration (Laboratory based)

20.	Resistance @5000 V	Using Mega ohm Box by Direct method	10 Gohm	4.82%
21.	Resistance @5000 V	Using Mega ohm Box by Direct method	100 Gohm	7.64%
22.	Resistance @5000 V	Using Mega ohm Box by Direct method	500 Gohm	10.82%
23.	Resistance @5000 V	Using Mega ohm Box by Direct method	1 Tohm	11.64%
24.	pH Meter (without electrode)	Multi-Product Calibrator by Simulation Method	0 to 14 pH	0.01 pH
25.	Conductivity Meter (without electrode)	Multi-Product Calibrator by Simulation Method	1 μ S/cm to 1000 mS/cm	0.50%

Group: Temperature Simulation (Source Mode)

1.	(Indicator/controller/ recorder/data logger)	Using Multi product calibrator Direct Method (Fluke- 5522A)		
	RTD Type		(-) 200°C to 800°C	0.30°C
	'J' Type T/C		(-) 200°C to 760°C	0.50°C
	'K' Type T/C		(-) 200°C to 1300°C	0.50°C
	'T' Type T/C		(-) 200°C to 400°C	0.50°C
	'N' Type T/C		(-) 200°C to 1300°C	0.48°C
	'R'/'S' Type T/C		0°C to 1700°C	0.70°C
	'B' Type T/C		600°C to 1800°C	0.53°C
	'E' Type T/C		(-) 200°C to 1000°C	0.60°C

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Electro-Technical Calibration (Laboratory based)

Group: (Measure mode)				
1.	DC Voltage	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	0.1mv to 200 mV 200 mV to 200 V 200 V to 1000 V	0.49% to 0.0035% 0.0035% to 0.0013% 0.0013% to 0.0010%
2.	AC Voltage (50 Hz)	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	1mv to 200 mV 200 mV to 200 V 200 V to 1000 V	0.7% to 0.04% 0.04% to 0.023% 0.023%
3.	DC Current	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	1 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 10 A 10 A to 20 A	0.70% to 0.005% 0.005 % to 0.005% 0.005% to 0.008% 0.008% to 0.07% 0.07% to 0.06%
4.	AC Current (50 Hz)	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	10 μ A to 1 mA 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 20 A	0.11% to 0.06% 0.06% to 0.06% 0.06% to 0.10% 0.097% to 0.12% 0.12%
5.	DC Resistance	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	0.001 Ω to 1 Ω 1 Ω to 1 k Ω 1 k Ω to 100 M Ω 100 M Ω to 2 G Ω	0.50% to 0.011% 0.011% to 0.002% 0.002% to 0.04% 0.04% to 0.76%
6.	Frequency	Using 6 ½ Digits Digital Multimeter (Agilent) by direct /comparison method	10 Hz to 1 MHz	0.3% to 0.07%

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Electro-Technical Calibration (Laboratory based)

Group: Time				
1.	Timer & Stop watch	Using Digital time interval meter by comparison method	5 s to 01 hr.	0.12 s to 0.33 s
Group: Temperature Simulation (Measure Mode)				
1.	Temperature by simulation method (Indicator/ controller/ recorder/ data logger) RTD Type	Using Precision Temperature Scanner Direct Method	(-) 200°C to 800°C	0.30 °C
2.	'J' Type T/C	Using Multi product calibrator Direct Method (Fluke- 5522A)	(-) 200°C to 760°C	0.50°C
	'K' Type T/C		(-)200°C to 1300°C	0.50°C
	'T' Type T/C		(-) 200°C to 390°C	0.73°C
	'N' Type T/C		0°C to 1300°C	0.50°C
	'R'/'S' Type T/C		0°C to 1700°C	0.70°C
	'B' Type T/C		600°C to 1800°C	0.72°C
	'E' Type T/C		(-) 200°C to 1000°C	0.58°C

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Electro-Technical Calibration (At Site)

Group: (Source mode)				
1.	DC Voltage	Using Multi product calibrator Direct Method (Fluke- 5522A)	1mv to 300 mV 300 mV to 3 V 3 V to 300 V 300 V to 1000 V	0.4% to 0.15% 0.15% to 0.12% 0.12% to 0.18% 0.18% to 0.05%
2.	AC Voltage (50 Hz)	Using Multi product calibrator Direct Method (Fluke- 5522A)	1 mV to 300 mV 300 mV to 3 V 3 V to 300 V 300 V to 1000 V	0.90% to 0.08% 0.08% to 0.05% 0.05% to 0.04% 0.04%
3.	DC Current	Using Multi product calibrator (Fluke- 5522A) by direct method	1 μ A to 300 μ A 300 μ A to 3 mA 3 mA to 300 mA 300 mA to 3 A 3 A to 20 A	1.5% to 0.16% 0.16% to 0.10% 0.10 % to 0.05% 0.05% to 0.12% 0.12% to 0.15%
4.	AC Current (50 Hz)	Using Multi product calibrator (Fluke- 5522A) by direct method	30 μ A to 3 mA 3 mA to 300 mA 300 mA to 3 A 3 A to 20 A	0.40% to 0.70% 0.70% to 0.20% 0.20% to 0.30% 0.30% to 0.40%

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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.	DC resistance	Using standard resistors of fixed value by direct method	1 m Ω 10 m Ω 100 m Ω 1 Ω 10 Ω	0.70% 0.11% 0.08% 0.10% 0.09%
		Using Multi product calibrator (Fluke- 5522A) by direct method	1 Ω to 100 Ω 100 Ω to 100 k Ω 100 k Ω to 100 M Ω 100 M Ω to 1 G Ω	0.12% to 0.05% 0.05% to 0.02% 0.02% to 0.5% 0.5% to 2.0%
6.	Capacitance (1 kHz)	Using Multi product calibrator (Fluke- 5522A) by direct method	1 nF to 1 μ F	1.8% to 0.8%
7.	Capacitance (100 Hz)	Using Multi product calibrator (Fluke- 5522A) by direct method	1 μ F to 100 μ F	1.8% to 0.8%
8.	Power factor (50 Hz) (lag & lead)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.5 to 1 PF	0.008 PF
9.	Active power (1 Φ , 3 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current : 1 A to 5 A (50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	120 W to 1200 W(1 Φ), 360 W to 3600 W(3 Φ)	0.3% to 0.8 %

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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)

10.	Active energy (1 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current : 1 A to 5 A (50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.12 kWhr to 1.2 kWhr(3 Φ)	0.3% to 0.8 %
11.	Frequency	Using Multi product calibrator Direct Method (Fluke- 5522A)	10 Hz to 1 MHz	0.3% to 0.04%
12.	Active energy (3 Φ at P.F. UPF to 0.5 PF (Lead/Lag) Voltage : 240 V Current : 1 A to 5 A (50 Hz)	Using 3 Φ power energy calibrator(Zeal) by direct method	0.36 kWhr to 3.6 kWhr(3 Φ)	0.52% to 0.8 %

Group: Temperature Simulation (Source mode)

1.	(Indicator/controller/ recorder/data logger) RTD Type 'J' Type T/C 'K' Type T/C 'T' Type T/C 'N' Type T/C 'R'/'S' Type T/C 'B' Type T/C 'E' Type T/C	Using Multi product calibrator Direct Method (Fluke- 5522A)	(-) 200°C to 800°C (-) 200°C to 760°C (-) 200°C to 1300°C (-) 200°C to 400°C (-) 200°C to 1300°C 0°C to 1700°C 600°C to 1800°C (-) 200°C to 1000°C	0.30 °C 0.50°C 0.50°C 0.50°C 0.48°C 0.70°C 0.53°C 0.60°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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Electro-Technical Calibration (At Site)

Group: (Measure mode)				
1.	DC Voltage	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	0.1mv to 200 mV 200 mV to 200 V 200 V to 1000 V	0.49% to 0.0035% 0.0035% to 0.0013% 0.0013% to 0.0010%
2.	AC Voltage (50 Hz)	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	1mv to 200 mV 200 mV to 200 V 200 V to 1000 V	0.7% to 0.04% 0.04% to 0.023% 0.023%
3.	DC Current	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	1 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 10 A 10 A to 20 A	0.70% to 0.005% 0.005 % to 0.005% 0.005% to 0.008% 0.008% to 0.07% 0.07% to 0.06%
4.	AC Current (50 Hz)	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	10 μ A to 1 mA 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 20 A	0.11% to 0.06% 0.06% to 0.06% 0.06% to 0.10% 0.097% to 0.12% 0.12%
5.	DC Resistance	8 ½ Digits Digital Multimeter (Fluke, 8508A) by direct /comparison method	0.001 Ω to 1 Ω 1 Ω to 1 k Ω 1 k Ω to 100 M Ω 100 M Ω to 2 G Ω	0.50% to 0.011% 0.011% to 0.002% 0.002% to 0.04% 0.04% to 0.76%

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Electro-Technical Calibration (At Site)

6.	Frequency	Using 6 ½ Digits Digital Multimeter (Agilent) by direct /comparison method	10 Hz to 1 MHz	0.3% to 0.07%
7.	DC High Voltage	Using 4 3/4 Digits Digital Multimeter & High Voltage Probe by direct method	1 kV to 30 kV	2.5% to 1.8%
8.	AC High Voltage (50 Hz)	Using 4 3/4 Digits Digital Multimeter & High Voltage Probe by direct method	1 kV to 15 kV	4.8% to 2.9%

Group: Time

1.	Timer & Stop watch	Using Digital time interval meter by comparison method	5 s to 01 hr.	0.12 s to 0.33 s
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Group: Temperature Simulation (Measure mode)

1.	(Indicator/controller/recorder/data logger) 'J' Type T/C 'K' Type T/C 'T' Type T/C 'N' Type T/C 'R'/'S' Type T/C 'B' Type T/C 'E' Type T/C	Using Multi product calibrator Direct Method (Fluke- 5522A)	(-) 200°C to 760°C (-) 200°C to 1300°C (-) 200°C to 390°C 0°C to 1300°C 0°C to 1700°C 600°C to 1800°C (-) 200°C to 1000°C	0.50°C 0.50°C 0.73°C 0.50°C 0.70°C 0.72°C 0.58°C
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Mechanical Calibration (Laboratory based)

Group: Dimension				
1.	Caliper Least Count : 0.01 mm & Coarser	Using 'K' grade slip gauge set & slip gauge Accessories (IS 16491(part-1):2016 RA2021)	0 to 300 mm	7.69 μ m
		Using Caliper checker (IS 16491(part-1):2016 RA2021)	0 to 600 mm	16.0 μ m
2.	Height Gauge Least Count : 0.01 mm & Coarser	Using 'K' grade slip gauge set (IS 2921:2016 RA 2021)	0 to 300 mm	9.5 μ m
		using Caliper checker (IS 2921:2016 RA 2021)	0 to 600 mm	16.0 μ m
3.	External Micrometer Least Count : 0.0001 mm & Coarser	Using 'K' grade slip gauge set and slip gauge accessories (IS 2967: 1983 RA 2019 & JIS B 7502:2016)	0 to 25 mm	0.49 μ m
			0 to 25 mm	1.4 μ m
			0 to 100 mm	1.5 μ m
	0.001 mm & Coarser		0 to 300 mm	5.0 μ m

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Mechanical Calibration (Laboratory based)

4.	Plunger Type Dial Gauge/Digimatic Indicator Least Count : 0.001 mm 0.01 mm & Coarser	Using Electronic Dial Calibration Tester (IS 2092:1985 RA 2019)	0 to 25 mm 0 to 25 mm	1.4 μ m 6.0 μ m
		Using 'K'grade slip gauge set (IS 2092:1985 RA 2019)	0 to 50 mm	6.0 μ m
5.	Lever Type Dial Gauge Least Count : 0.001 mm 0.01 mm & Coarser	Using Electronic Dial Calibration Tester (IS 11498:1985 RA 2000)	0 to 0.14 mm 0 to 0.80 mm	1.2 μ m 6.0 μ m
6.	Dial Thickness Gauge Least Count : 0.01 mm & Coarser	Using 'K'grade slip gauge set	0 to 25 mm	6.0 μ m
7.	Depth Micrometer Least Count : 0.01 mm & Coarser	Using 'K'grade slip gauge set (IS 16491(part-2):2016 RA2021)	0 to 300 mm	4.0 μ m
8.	Plain Plug Gauge	Using 'K'grade slip gauge set & Plunger Dial Gauge (IS-3455:1971 RA 2020)	1 to 100 mm	6.4 μ m

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Mechanical Calibration (Laboratory based)

9.	Feeler Gauge	Using External Micrometer (IS – 3179:1990 RA 2020)	0.03 to 2 mm	2.0 μ m
10.	Snap Gauge	Using 'K' grade slip gauge set (IS-3455 (part 1):1985 RA 2020)	3 to 200 mm	2.0 μ m
11.	Depth gauge Least Count : 0.01 mm & Coarser	Using 'K' grade slip gauge set & Lever type Dial Gauge (IS 16491(part-2):2016 RA2021)	0 to 300 mm	7.0 μ m
12.	Bore Gauge Least Count : 0.001 mm Transmission error only	Using Electronic Dial Calibration Tester (JIS B7515:1982)	0 to 3 mm	1.7 μ m
13.	Surface Plate	Using Electronic Level (IS 12937:1990 RA 2020)	160 X 100 mm to 2500 X 1600 mm	$0.6 \times \sqrt{(L+W/125)} \mu$ m (L & W in mm)
14.	Magnetic V Block (Squareness, parallelism , flatness & Symetricity)	Using Master Cylinder, Slip gauge set , Master Mandrel & Lever type Dial Gauge (IS – 2949: 1992, RA 2017)	0 to 150 mm	9.86 μ m

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Mechanical Calibration (Laboratory based)

15.	Straight Edge	Using Electronic Level & Slip gauge set and Lever type Dial Gauge (IS 12937:1990 RA 2020)	300 to 2500 mm	$1.4 \times \sqrt{L/125}$ μm (L in mm)
16.	Comparator Stand	Using 'K' grade slip gauge set & Lever Dial gauge (IS 12937:1990 RA 2020)	300 X 300 mm	6.2 μm
17.	Angle Plate/ Box Plate (Squareness)	Using Master Cylinder, Slip gauge set and Lever type Dial Gauge	Up to 300 mm	12.0 μm
18.	Try Engg. Square (Squareness, Parallelism, Flatness)	Using Master Cylinder, Slip gauge set and Lever type Dial Gauge (IS-2103:1980 RA 2017)	Up to 300 mm	10.0 μm
19.	Steel Scale (L.C-0.5 mm & Coarser)	Measuring Scale & Tape Calibrator System (IS 1481: 1970 RA 2019)	0 to 1000 mm	20.0 μm
20.	Measuring Tape	Measuring Scale & Tape Calibrator System (IS 1269 (Part-1,2) :1997 RA 2018)	0 to 50000 mm	20.0 $\mu\text{m}/\text{mm}$
21.	Measuring /Cylindrical Pin Gauge	Using High Accuracy Digimatic Micro Meter (L.C-0.1 μm)	0.1 mm to 20 mm	0.55 μm

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Mechanical Calibration (Laboratory based)

22.	Test Sieve	Profile Projector (IS – 460 (PART-1,2&3) : 2020)	0.025 mm to 5 mm	8.2 μ m
23.	Test Sieve	Digital Caliper (IS – 460 (PART-1,2&3) : 2020)	5 mm to 150 mm	15 μ m
24.	Profile Projector (Angular) L.C: 1s	Using Angle Gauge Set by Comparison method	Up to 90° (Angular)	25.40s
25.	Profile Projector (Linear) L.C: 0.001 mm	Using Glass Scale and slip gauge set by Comparison method	Up to 200 mm (Linear)	6.0 μ m
26.	Profile Projector (Magnification)	Using Glass Scale, Slip Gauge Set and Digital Caliper by Comparison method	Up to 50 X (Magnification)	0.42%

Group: Pressure & Vacuum

1.	Pneumatic Pressure (Manometer, Pressure Gauge/Indicator, Pressure Switch, Pressure Transmitter, Pressure Transducer, Magnehelic Gauge)	Using Digital Pressure Indicator/Gauge/ Calibrator & Pneumatic Pump comparator by comparison method as per DKD-R6-1: 2014	0 to 350 mbar 0 to 1 bar 0 to 30 bar 0 to 2000 Pa	0.09 mbar 0.31 mbar 0.047 bar 0.71 Pa
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Mechanical Calibration (Laboratory based)

2.	Hydraulic Pressure (Pressure Gauge/Indicator, Pressure Switch, Pressure Transmitter, Pressure Transducer)	Using Digital Pressure Gauges & Hydraulic Comparator by comparison method as per DKD-R6-1: 2014	0 to 7 bar 0 to 70 bar 0 to 700 bar 0 to 1000 bar	0.0017 bar 0.021 bar 0.14 bar 0.20 bar
3.	Vacuum(Negative Pressure) (Vacuum gauge/indicator, Vacuum Transducer, Vacuum Transmitter, Vacuum Switch)	Using Digital Pressure Indicator (GE Druck) & Vacuum /Pneumatic Pump comparator by comparison method as per DKD-R6-1: 2014	(-)0.975 bar to 0 bar	0.02%of rdg
4.	Micropipette (Single/ Multi Channel Piston operated pipette)	Using Digital Weighing Balance (up to 80 mg L.C:0.01 mg)and distilled water by Gravimetric Method as per ISO 8655 - 6:2022, ref. temperature : 27°C	10 μ l to < 100 μ l 100 μ l to < 1000 μ l 1000 μ l to < 2000 μ l	0.26 μ l 0.20 μ l 0.80 μ l

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Mechanical Calibration (Laboratory based)

Group: Mass & Volume				
1.	Weights (Conventional Mass) of F2 Class & Coarser	Using 'F1' class Weights and Digital Weighing Balance(s) as per OIML R111:2004 By Substitution method ABBA Cycle	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	20 μ g 20 μ g 20 μ g 20 μ g 20 μ g 30 μ g 30 μ g 30 μ g 50 μ g 0.05 mg 0.05 mg 0.05 mg 0.07 mg 0.12 mg 0.12 mg 0.30 mg 0.6 mg 2 mg 2 mg 0.01 g 0.04 g 0.1 g 0.2 g

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Mechanical Calibration (Laboratory based)

2.	Single Volume/Graduated Pipette	Using Digital Weighing Balance(80/200g/0.01mg ,0.1mg) and distilled water by Gravimetric Method as per IS/ISO 4748:2021 , ref. temperature : 27°C	0.2ml to 100 ml	0.007 ml
3.	Burette	Using Digital Weighing Balance(80/200g/0.01mg ,0.1mg) and distilled water by Gravimetric Method as per IS/ISO 4748:2021 , ref. temperature : 27°C	1ml to 100 ml	0.006 ml
4.	One Mark Volumetric Flasks/Graduated Measuring Cylinders	Using Digital Weighing Balance(80/200g/0.01mg ,0.1mg & up to 1000g/1mg) and distilled water by Gravimetric Method as per ISO 4787:2021 , ref. temperature : 27°C	1ml to 200 ml	0.006 ml

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Mechanical Calibration (Laboratory based)

5.	One Mark Volumetric Flasks/Graduated Measuring Cylinders	Using Digital Weighing Balance(1000g/1mg, & up to 6200g/0.01g) and distilled water by Gravimetric Method as per ISO 4787:2021 , ref. temperature : 27°C	200ml to 1 L	0.007 ml
6.	One Mark Volumetric Flasks/Graduated Measuring Cylinders	Using Digital Weighing Balance (up to 6200g/0.01g) and distilled water by Gravimetric Method as per ISO 4787:2021 , ref. temperature : 27°C	1 L to 2 L	0.04 ml
7.	Weighing Balance/Scale Class-I, d=0.01 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 200 g	0.04 mg
8.	Weighing Balance/Scale Class-II, d=1 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 1000 g	1.1 mg

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Mechanical Calibration (Laboratory based)

9.	Weighing Balance/Scale Class-II, d=10 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 6 kg	10 mg
10.	Weighing Balance/Scale Class-III, d=1g & coarser	Using 'F1' class weights, as per OIML R76-1:2006	0 to 30 kg	1.8 g
11.	Weighing Balance/Scale Class-IV, d=2 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 50 kg	8 g
12.	Weighing Balance/Scale Class-IV, d=10 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 100 kg	10 g
13.	Weighing Balance/Scale Class-IV, d=20 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 300 kg	19 g
14.	Weighing Balance/Scale Class-IV, d=50 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 500 kg	50 g

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Mechanical Calibration (Laboratory based)

15.	Weighing Balance/Scale Class-IV, d=100 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 1000 kg	200 g
16.	Weighing Balance/Scale Class-IV, d=200 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 2000 kg	600 g
17.	Weighing Balance/Scale Class-IV, d=500 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 3000 kg	1.5 kg
18.	Torque Wrench / Torque Tool - Torque Indicator Type I Class B,C,D ,E & Type II Class A,B,C,D ,E,F Torque Indicator Type I Class B,C, & Type II Class A,B	Using Torque Sensor with Indicator & Torque Wrench Calibration System as per IS/ISO 6789:2017 Direct Method	0.5 Nm to 5 Nm	1.9 % rdg
			2 Nm to 20 Nm	0.30% rdg
			10 Nm to 100 Nm	0.36% rdg
			50 Nm to 500 Nm	0.36% rdg
			300 Nm to 3000 Nm	0.10% rdg

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Mechanical Calibration (At Site)

Group: Pressure & Vacuum				
1.	Pneumatic Pressure (Manometer, Pressure Gauge/Indicator, Pressure Switch, Pressure Transmitter, Pressure Transducer, Magnehelic Gauge)	Using Digital Pressure Indicator/Gauge/ Calibrator & Pneumatic Pump comparator by comparison method as per DKD-R6-1: 2014	0 to 350 mbar 0 to 1 bar 0 to 30 bar 0 to 2000 Pa	0.09 mbar 0.31 mbar 0.047 bar 0.71 Pa
2.	Hydraulic Pressure (Pressure gauge/Indicator, Pressure Switch, Pressure Transmitter, Pressure Transducer)	Using Digital Pressure Gauges & Hydraulic Comparator by comparison method as per DKD-R6-1: 2014	0 to 7 bar 0 to 70 bar 0 to 700 bar 0 to 1000 bar	0.0017 bar 0.021 bar 0.14 bar 0.20 bar
3.	Vacuum(Negative Pressure)(Vacuum gauge/indicator, Vacuum Transducer, Vacuum Transmitter, Vacuum Switch)	Using Digital Pressure Indicator (GE Druck) & Vacuum /Pneumatic Pump comparator by comparison method as per DKD-R6-1: 2014	(-)0.975 bar to 0	0.02%of rdg
Group: Mass & Volume				
1.	Weighing Balance/Scale Class-I, d=0.01 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 200 g	0.04 mg

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Mechanical Calibration (At Site)

2.	Weighing Balance/Scale Class-II, d=1 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 1000 g	1.1 mg
3.	Weighing Balance/Scale Class-II, d=10 mg & coarser	Using 'E1' class weights, as per OIML R76-1:2006	0 to 6 kg	10 mg
4.	Weighing Balance/Scale Class-III, d=1g & coarser	Using 'F1' class weights, as per OIML R76-1:2006	0 to 30 kg	1.8 g
5.	Weighing Balance/Scale Class-IV, d=2 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 50 kg	8 g
6.	Weighing Balance/Scale Class-IV, d=10 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 100 kg	10 g
7.	Weighing Balance/Scale Class-IV, d=20 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 300 kg	19 g
8.	Weighing alance/Scale Class-IV, d=50 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 500 kg	50 g

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Mechanical Calibration (At Site)

9.	Weighing Balance/Scale Class-IV, d=100 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 1000 kg	200 g
10.	Weighing Balance/Scale Class-IV, d=200 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 2000 kg	600 g
11.	Weighing Balance/Scale Class-IV, d=500 g & coarser	Using 'F2 & M1' class weights, as per OIML R76-1:2006	0 to 3000 kg	1.5 kg
12.	Surface Plate	Using Electronic Level (IS 12937:1990 RA 2020)	160 X 100 mm to 2500 X 1600 mm	$0.6 \times \sqrt{L+W/125}$ μ m (L & W in mm)
13.	Bench Centre (Co-axiality/Parallelism)	Using Master Mandrel & Lever Type Dial Gauge (IS 5980:1978 RA 2020)	Up to 600 mm	5.4 μ m
14.	Straight Edge	Using Electronic Level & Slip gauge set and Lever type Dial Gauge (IS 12937:1990 RA 2020)	300 to 2500 mm	$1.4 \times \sqrt{L/125}$ μ m (L in mm)
15.	Profile Projector (Angular) L.C: 1s	Using Angle Gauge Set by Comparison method	Up to 90° (Angular)	25.40s
16.	Profile Projector (Linear) L.C: 0.001 mm	Using Glass Scale and slip gauge set by Comparison method	Up to 200 mm (Linear)	6.0 μ m
17.	Profile Projector (Magnification)	Using Glass Scale, Slip Gauge Set and Digital Caliper by Comparison method	Up to 50 X (Magnification)	0.42%

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Thermal Calibration (Laboratory based)

Group: Thermal				
1.	Temperature (Thermocouples/RTD with or without readout unit, Temperature Gauges, Glass Thermometer, Temperature sensor with transmitter)	Using MasterRTD, 6 ½ DMM & liquid/oil bath By Comparison Method	(-) 40°C to 0°C 0°C to 300°C	0.14°C 0.20°C
2.	Temperature (Thermocouple with or without readout unit, Temperature Gauges, Temperature sensor with transmitter)	S' type thermocouple and 6 ½ DMM & High/Very high temperature furnace By Comparison Method	300°C to 600°C 600°C to 1000°C 1000°C to 1200°C 1200°C to 1450°C	1.08°C 1.29°C 2.78°C 3.60°C
3.	Relative Humidity (Humidity Indicator/ Hygrometer/ Thermo hygrometer)	Digital Thermo hygrometer with Sensor & Portable Temperature & humidity generator by comparison method	10% to 95% @ 25°C	1.69 % rh
4.	Relative Humidity (Humidity Indicator/ Hygrometer/ Thermo hygrometer)	Digital Thermo hygrometer with Sensor & Portable Temperature & humidity generator by comparison method	10°C to 50°C @ 50% rh	0.58°C

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Thermal Calibration (Laboratory based)

5.	Relative Humidity (Humidity Indicator/Controller with sensor of Humidity Chamber/ Environmental Chamber (Single Position Calibration)	Digital Thermo hygrometer with Sensor by comparison method	10% to 95%rh @ 25°C	1.05 % rh
6.	Temperature Indicator/Controller with sensor of Liquid Bath/Oil Bath/Environmental Chamber/Freezer/Fridge/ Dry Block/Furnace (Single Position Calibration)	Using RTD Calibrator with Sensor by Comparison Method	(-)40°C to 300°C	0.66°C
7.	Temperature Indicator/Controller with sensor of Dry Block/Furnace (Single Position Calibration)	Using Thermocouple Calibrator with Sensor by Comparison Method	100°C to 1000°C	1.49°C

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Thermal Calibration (Laboratory based)

8.	Non-Contact Type Thermometer (Infrared Thermometer / Digital Pyrometer / Body Temperature Thermometer)	Using Infrared Thermometer with Black Body Temperature source (Emissivity = 0.95)	50 °C to 500 °C	1.1°C
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Thermal Calibration (At Site)

Group: Thermal				
1.	Temperature (Thermocouple/RTD with or without readout unit, Temperature Gauges, Glass Thermometer, Temperature sensor with transmitter)	Using Master RTD, 6 ½ DMM & liquid/oil bath By Comparison Method	(-) 40°C to 0°C 0°C to 300°C	0.14°C 0.20°C
2.	Temperature (Thermocouple with or without readout unit, Temperature Gauges, Temperature sensor with transmitter)	S' type thermocouple and 6 ½ DMM & High temperature furnace By Comparison Method	300°C to 600°C 600°C to 1000°C	1.08°C 1.29°C
3.	Relative Humidity (Humidity Indicator/ Hygrometer/ Thermo hygrometer)	Digital Thermo hygrometer with Sensor & Portable Temperature & humidity generator by comparison method	10% to 95% @ 25°C	1.69 % rh

Jimanshu

Dealing Officer

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 - 133)

Laboratory Name: Adcon Test & Calibration Lab (A Unit of Adcon Instruments Pvt. Ltd.)
Plot no – 44, Udyog Vihar, Phase -1, Gurugram (Haryana)- 122016, India

Validity: 14.08.2024 to 13.08.2026

Amended on N/A

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

4.	Relative Humidity (Humidity Indicator/ Hygrometer/ Thermo hygrometer)	Digital Thermo hygrometer with Sensor & Portable Temperature & humidity generator by comparison method	10°C to 50°C @ 50% rh	0.58°C
5.	Relative Humidity (Humidity Indicator/Controller with sensor of Humidity Chamber/ Environmental Chamber (Single Position Calibration)	Digital Thermo hygrometer with Sensor by comparison method	10% to 95% rh @ 25°C	1.05 % rh
6.	Temperature Indicator/Controller with sensor of Liquid Bath/Oil Bath/Environmental Chamber/Freezer/Frid ge/ Cold Room/ Dry Block/Furnace (Single Position Calibration)	Using RTD Calibrator with Sensor by Comparison Method	(-)40°C to 300°C	0.66°C

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Amended on N/A

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

7.	Temperature Indicator/Controller with sensor of Dry lock/SAT/Furnace (Single Position Calibration)	Using Thermocouple Calibrator with Sensor by Comparison Method	100°C to 1000°C	1.49°C
8.	Temperature Indicator/Controller with sensor of Freezer/Fridge/Cold Room BOD/ Environmental Chamber /Oil Bath/Liquid Bath/Oven/Furnace (Multi Position Calibration)	Using Multi Channel Data Logger with RTD Sensor (Minimum Nine)	(-)40°C to 300°C	2.64°C
9.	Temperature (Furnace) (Multi Position Calibration)	Using Multi Channel Data Logger with Thermocouple (Minimum Nine)	300°C to 1200°C	3.5°C

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

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