FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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

CERTIFICATE OF ACCREDITATION

(AS PER ISO/IEC 17025:2017)

This is to attest that

M/s ADNA TECHNOLOGY SERVICES

68, Shakti Vihar Rudrapur Udham Singh Nagar (Uttarakhand) -263153, 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- 129

Issue Date: 21.06.2024 **Valid Until:** 20.06.2026

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 - 129)

Laboratory Name: ADNA Technology Services
68, Shakti Vihar Rudrapur Udham Singh Nagar
(Uttrakhand) -263153, India

Validity: 21.06.2024 to 20.06.2026 **Amended on** N/A

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

Electro – Technical Calibration (Laboratory Based)

Group : Direct Current Measure Mode				
1	DC Current	Using 6½ Dig. Multimeter by Direct Method	1 mA to 1 A	0.17 % to 0.10 %
			1 A to 10 A	0.10 % to 0.19 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mA to 1 A	0.17 % to 0.21 %
			1 A to 10 A	0.21 % to 0.27 %
2	DC Voltage	Using 6½ Dig. Multimeter by Direct Method	1 mV to 100 V	0.17 % to 0.06 %
			100 V to 1000 V	0.06 % to 0.015 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mV to 100 V	0.5 % to 0.3 %
			100 V to 1000 V	0.3 % to 0.2 %
3	DC High Voltage	Using HV Probe with 4½ Dig. Multimeter by Direct Method	1 kV to 38 kV	2.36%
4	Resistance (2 & 4 Wire)	Using 6½ Dig. Multimeter by Direct Method	1 Ohm to 100 kohm	0.08 % to 0.40 %
5	Resistance (2 Wire)	Using 6½ Dig. Multimeter by Direct Method	100 kohm to 1Gohm	0.40 % to 2.33 %

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Validity: 21.06.2024 to 20.06.2026 **Amended on** N/A

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

Electro – Technical Calibration (Laboratory Based)

Group : Alternating Current Measure Mode				
1	AC Current @ 50 Hz	Using 6½ Dig. Multimeter by Direct Method	1 mA to 10 A	0.44 % to 0.30 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mA to 10 A	0.44 % to 0.30 %
		Using Portable Energy Meter by Comparison Method	10 mA to 120 A	0.069 % to 0.132 %
2	AC Voltage @ 50 Hz	Using 6½ Dig. Multimeter by Direct Method	10 mV to 100 V	0.33 % to 0.17 %
			100 V to 1000 V	0.17 % to 0.15 %
		Using Portable Energy Meter by Direct Method	30 V to 300 V	0.059 % to 0.075 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	10 mV to 100 V	1.2 % to 1.18 %
			100 V to 1000 V	1.18% to 1.16%
3	AC High Voltage @ 50 Hz	Using HV Probe with 4½ Dig. Multimeter by Direct Mthod	1 kV to 28 kV	3.20 %
4	Capacitance @ 1 kHz	Using LCR-Q Meter by Direct Method	1 nF to 1 µF	0.69 % to 0.4 %
		Using 6½ Dig. Multimeter by Direct Method	1 nF to 100 µF	0.06 % to 1.3 %

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (Laboratory Based)		
5.	Inductance @ 1 kHz	Using Dig. LCR-Q Meter by Direct Method	100 µH to 1 H	0.56 % to 1.0 %
6	Resistance @ 1 kHz	Using Dig. LCR-Q Meter by Direct Method	1 Ohm to 100 kohm	0.28%
Group : Temperature Simulation Measure Mode				
1	Temperature Source (K Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1290 °C	0.45 °C
2	Temperature Source (B Type Thermocouple)	Using Multi Function Calibrator by Direct Method	600 °C to 1790 °C	1.0 °C
3	Temperature Source (E Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-100 °C to 600 °C	0.44 °C
4	Temperature Source (J Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1190 °C	0.42 °C
5	Temperature Source (N Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1290 °C	0.42 °C
6	Temperature Source (R Type Thermocouple)	Using Multi Function Calibrator by Direct Method	0 ºC to 1690 °C	0.6 °C
7	Temperature Source (S Type Thermocouple)	Using Multi Function Calibrator by Direct Method	0 ºC to 1690 °C	0.6 °C
8	Temperature Source (T Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 390 °C	0.41 °C
9	Temperature Source - RTD (PT-100)	Using Multi Function Calibrator by Direct Method	-190 °C to 750 °C	0.44 °C

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Electro – Technical Calibration (Laboratory Based)

Group : Time (Measure Mode)				
1	Dig./Analog Timer/Stop Watch/Hour Meter	Using Time Calibrator by Direct Method	0.1 s to 1 s	0.01 s to 0.02 s
		Using Time Calibrator by Direct Method	1 s to 60 s	0.02 s to 0.08 s
		Using Time Calibrator by Direct Method	60 s to 86400 s	0.08 s to 2.90 s
Group : Frequency(Measure Mode)				
1	Frequency	Using 6½ Dig. Multimeter by Direct Method	10 Hz to 1000 kHz	0.06%
		Using 6½ Dig. Multimeter with Function Generator by Comparison Method	10 Hz to 1000 kHz	0.08%

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Electro – Technical Calibration (Laboratory Based)

Group : Direct Current Source Mode				
1	DC Current	Using 5½ Multifunction calibrators by Direct Method	1 mA to 10A	0.16 % to 0.24 %
		Using 5½ Multi-Function Calibrator with Current Coil (1X100) by Direct Method	10 A to 1000 A	0.24 % to 0.92 %
2.	DC Voltage	Using 5½ Multi-Function Calibrator by Direct Method	1 mV to 1000 V	0.75 % to 0.14 %
3.	Resistance	Using Decade Resistance Box by Direct Method	1 Ohm to 1 Mohm	0.77 % to 0.94 %
		Using Megohm Box by Direct Method	2 Mohm	1.02%
		Using Megohm Box by Direct Method	20 Mohm	1.0 %
		Using Megohm Box by Direct Method	100 Mohm	1.81%
		Using Megohm Box by Direct Method	200 Mohm	2.43%
		Using Megohm Box by Direct Method	1 Gohm	2.48%
		Using Megohm Box by Direct Method	2 Gohm	2.45%

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (Laboratory Based)		
		Using Megohm Box by Direct Method	20 Gohm	2.43%
		Using Megohm Box by Direct Method	200 Gohm	2.52%
		Using Megohm Box by Direct Method	1 Tohm	6.80%
4.	Resistance (4 Wire)	Using Precision Resistance Box by Direct Method	10 µohm	0.28%
		Using Precision Resistance Box by Direct Method	100 µohm	0.11%
		Using Precision Resistance Box by Direct Method	1 mohm	0.17%
		Using Precision Resistance Box by Direct Method	10 mohm	1.29%
		Using Precision Resistance Box by Direct Method	100 mohm	0.13%
		Using Standard Resistance Box by Direct Method	1 mohm	1.17%
		Using Standard Resistance Box by Direct Method	10 mohm	1.29%
		Using Standard Resistance Box by Direct Method	100 mohm	1.30%

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

Electro – Technical Calibration (Laboratory Based)

		Using Standard Resistance Box by Direct Method	1 ohm	1.19%
		Using Standard Resistance Box by Direct Method	10 ohm	1.35%
		Using Standard Resistance Box by Direct Method	100 Ohm	1.16%
		Using Standard Resistance Box by Direct Method	1 kohm	1.36%
Group : Alternating Current Source Mode				
1	AC Current @ 50 Hz	Using 5½ Dig. Multi-Function Calibrator by Direct Method	1 mA to 10 A	0.40%
		Using 5½ Dig. Multi-Function Calibrator with Current Coil (1X100) by Direct Method	10 A to 1000 A	1.3%
2	AC Voltage @ 50 Hz	Using 5½ Dig. Multi-Function Calibrator by Direct Method	10 mV to 1000 V	1.21 % to 0.24 %
3	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 1 µF	0.90%
4	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 1 H	0.71 % to 0.94 %

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

Electro – Technical Calibration (Laboratory Based)

Group : Temperature Simulation Source Mode				
1	Temperature Indicator /Temperature Controller /PID/Temperature Recorder - RTD (PT-100)	Using Multi-function Calibrator by Direct Method	-190 °C to 750 °C	0.42 °C
2	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (B Type Thermocouple)	Using Multi function Calibrator by Direct Method	610 °C to 1690 °C	0.65 °C
3	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (J Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1190 °C	0.42 °C
4	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (E Type Thermocouple)	Using Multi Function Calibrator by Direct Method	100 °C to 590 °C	0.42 °C

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		Electro – Technical Calibration (Laboratory Based)		
5	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (K Type Thermocouple)	Using Multi-Function Calibrator by Direct Method	0 °C to 1290 °C	0.42 °C
6	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (N Type Thermocouple)	Using Multi-Function Calibrator by Direct Method	-190 °C to 1290 °C	0.42 °C
7	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (R Type Thermocouple)	Using Multi-Function Calibrator by Direct Method	610 °C to 1690 °C	0.6°C
8	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (S Type Thermocouple)	Using Multi-Function Calibrator by Direct Method	55 °C to 1690 °C	0.62 °C

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		Electro – Technical Calibration (Laboratory Based)		
9	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (T Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 390 °C	0.4 1°C
Group : Frequency(Source Mode)				
1	Frequency	Using Dig. Function Generator by Direct Method	10 Hz to 1000 kHz	0.58%

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

Mechanical Calibration (Laboratory based)

Group: Dimension				
1	Angle plate/Box Angle Plate (Flatness, Parallelism, Squareness)	Using Dial Gauge, Cylindrical Mandrel & Surface Plate IS – 6232 : 2019, IS-2554: 2020, IS-6973: 2020, IS-6985: 2020,	Up to 300 mm	4.50 µm
2	Bevel Angle Protractor/Combination Set, L.C.-5min./1min./1degree	Using Angle Gauge Set &IS 4239: 2011,IS 5812:1970	0° - 90° - 0°	3.1 minute
3	Caliper (Vernier/Dial/Digital), L.C.-0.01 mm	Using Caliper Checker &IS 16491(part-1) -2016	0 to 600 mm	10.6 µm
4	Coating Thickness Gauge, L.C.-0.1/1 µm	Using Standard Thickness Foils	0.009 mm to 2 mm	1.4 µm
5	Comparator Stand (Base Flatness Only)	Using Dial Gauge & Surface Plate & Precision Level Screw IS 12937: 2020, IS- 2285:2020, IS-7327:2019	Up to 300x300 mm	2.5 µm
6	Depth Micrometer, L.C.-0.001 mm and coarser	Using Slip Gauge Set JIS B7544:1994 & BS 6468:2008	0 to 300 mm	4.8 µm

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		Mechanical Calibration (Laboratory based)		
7	Depth Vernier Caliper, L.C.-0.01 mm and coarser	Using Slip Gauge Set and Caliper Checker	0 to 300 mm	6.9 µm
8	Dial Bore Gauge (Travel Only), L.C.-0.001 mm	Using Universal Length Measuring Machine (ULM)	Up to 2 mm	0.65 µm
9	Dial Thickness Gauge, L.C.-0.001 mm	Using Slip Gauge Set JIS B7503:2017	0 to 50 mm	0.61 µm
10	Engineering /Try Square (Blade Squareness)	Using Cylindrical Mandrel & Surface Plate & IS 2103 :1980 ,IS 12937 :2020	Up to 400 mm	4.5 µm
11	Engineering /Try Square (Straightness)	Using Dial Gauge, Cylindrical Mandrel , Surface Plate & IS 2103 :1980 ,IS 12937 :2020	Up to 400 mm	3.7 µm
12	Feeler Gauge	Using Universal Length Measuring Machine (ULM) & IS 3179 :1990	Up to 2 mm	0.57 µm
13	Height Gauge (Vernier/Dial/Digital), L.C.-0.01 mm and coarser	Using Caliper Checker, Dial Indicator ,Slip Gauge, Surface Plate & IS 2921: 2016	0 to 600 mm	10.8 µm
14	Internal Micrometer (Stick type) L.C.-0.001 mm and coarser	Using Slip Gauge Set , Accessories Set & IS 2966: 2019	0 mm to 150 mm	2.0 µm

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		Mechanical Calibration (Laboratory based)		
15	Lever Type Dial Gauge, L.C.-0.001/ and coarser	Using Universal Length Measuring Machine (ULM) IS 11498:2000	Up to 1 mm	0.64 µm
16	Measuring Pin	Using Universal Length Measuring Machine (ULM) &IS –11103: 2020	0.1 mm to 50 mm	0.66 µm
17	Micrometer (External/Point/Pin/Blade/Ball/Digital, L.C.-0.001 mm and coarser	Using Slip Gauge Set &IS 2967: 2019	0 to 150 mm	1.3 µm
18	Pistol Caliper, L.C.-0.001 mm and coarser	Using Slip Gauge Set	0 to 100 mm	60.56 µm
19	Plain Plug Gauge/Air Plug Gauge/Cylindrical Setting Master	Using Universal Length Measuring Machine (ULM) With Reference Standard & S-3455:1971, IS 3485: 1983 ,IS-6244 : 2017, IS 6246: 2017	1 mm to 300 mm	2.68 µm
20	Plain Ring Gauge/Air Ring Gauge/Setting Ring Gauge	Using Universal Length Measuring Machine (ULM) with Reference Standard & IS-3455: 2020,IS-7876: 2020, IS 3485: 2019,	3 mm to 300 mm	3.9 µm

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		Mechanical Calibration (Laboratory based)		
21	Plunger Type Dial Gauge, L.C.-0.001 mm and coarser	Using Universal Length Measuring Machine (ULM) & IS 2092: 2019	0 to 50 mm	0.71 µm
22	Setting Rod/Length Bar	Using Universal Length Measuring Machine (ULM) with Reference Standard & IS 7014:-2020	25 mm to 325 mm	3.5 µm
23	Snap Gauge	Using Universal Length Measuring Machine (ULM) With Reference Standard & IS 3455:1971	3 mm to 150 mm	1.66 µm
24	Standard Foils	Using Universal Length Measuring Machine (ULM)	Up to 2 mm	0.78 µm
25	Taper Plain Plug Gauge (Taper Angle)	Using Universal Length Measuring Machine (ULM) with Reference Standard & IS 9529 : 1980	0 ° to 50 °	2.9 minute

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		Mechanical Calibration (Laboratory based)		
26	Taper Plain Plug Gauge (Taper Length)	Using Universal Length Measuring Machine & IS 9529 : 1980	5 mm to 100 mm	1.0 µm
27	Thread Plug Gauge/WCP Gauge (Effective Diameter)	Using Universal Length Measuring Machine (ULM) with Three Measuring Wire and Reference Standard & IS 10685: 2019,IS-2334:2019,	2 mm to 150 mm	3.0 µm
28	Thread Ring Gauge/WCR Gauge (Effective Diameter)	Using Universal Length Measuring Machine (ULM) With T Stylus and Reference Standard & IS 10685: 2019,IS-2334:2019,	3 mm to 100 mm	1.4 µm
29	Three Wire set	Using Universal Length Measuring Machine (ULM) & IS- 11103: 2020, IS 6311:2020	0.17 mm to 6.35 mm	0.56 µm

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		Mechanical Calibration (Laboratory based)		
30	Ultrasonic Thickness Gauge, L.C.-0.1 mm and coarser	Using Slip auge Set	Up to 100 mm	91.21 µm
31	V-Block (Parallelism)	Using Dial Gauge, Test Mandrel & Surface Plate & IS – 2949: 2017	Up to 400 mm	3.0 µm
32	V-Block (Squareness)	Using Cylindrical Mandrel, Slip Gauge Set & Surface Plate IS – 2949: 2017	Up to 400 mm	4.41 µm
33	V-Block (Flatness)	Using Dial Gauge& Surface Plate IS – 2949: 2017	Up to 400 mm	3.0 µm
34	Width Gauge/Flush Pin	Using Universal Length Measuring Machine (ULM) with Reference Standard	2 mm to 150 mm	1.2 µm
35	Measuring Scale, L.C.-0.5 and coarser	Using Scale & Tape Calibrator & IS 1481:2014	Upto 2000 mm	290 x (Sqrt L) µm (where L in mtr)
36	Measuring Tape/Pie Tape/Circumference Tape, L.C.-1 mm nd coarser	Using Scale & Tape Calibrator & IS 1269 (Part-1,11) 2018	Upto 50 m	294 x (Sqrt L) µm (where L in mtr)

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		Mechanical Calibration (Laboratory based)		
37	Test Sieves	Using Digital Vernier Caliper & IS – 460 (PART 1,2&3):2020	2 mm to 200 mm	15 µm
38	Mould/Beam	Using Digital Vernier Caliper & IS 10086:2021	50X50X50 mm to 150X150X150 mm	49 µm
39	Cylindrical Mould	Using Bore Gauge & Height gauge & IS 10086:2021	50 mm to 300 mm	42 µm
40	Elongation Gauge	Using Digital Vernier Caliper & IS 2386 (part 1): 2021	0 mm to 100 mm	22 µm
41	Flakiness Gauge	Using Digital Vernier Caliper & IS 2386 (part 1): 2021	0 mm to 100 mm	22 µm
42	Crushing Value Apparatus Cylinder	Using Height Gauge, Caliper, Micrometer & IS 2386 (Part 1): 2021	5mm to 200mm	49 µm
43	Small Hole Gauge	Using ULM	Upto 100 mm	0.67 µm
44	Telescopic Gauge	Using ULM	Upto 100 mm	0.67 µm
45	Test Mandrel Variation in Diameter	Using ULM & IS 2063:2016	Upto 300 mm	1.04 µm

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		Mechanical Calibration (Laboratory based)		
Group: Pressure & Vacuum				
1	Hydraulic Pressure: Digital/Analogue Pressure Gauge/Pressure Transmitter/Transducer/ Pressure Switch	Using Digital Pressure Gauge with Hydraulic comparator and Digital Multimeter by Comparison Method as per DKD-R-6-1 : 2014	0 to 700 bar	0.18% of rdg
2	Pneumatic Pressure: Digital/Analogue Low Pressure Gauge /Manometer/Magnehelic Gauge/Differential Gauge/Transmitter/ Transducer/Pressure Switch	Using Digital Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R-6-1: 2014	(-)2000 Pa to 2000 Pa	0.16% rdg
3	Pneumatic Digital /Analogue Pressure Gauge/Pressure Transmitter/Transducer/ Pressure Switch)	Using Digital Pressure Gauge with pneumatic pump and Digital Multimeter by Comparison Method as per DKD-R-6-1:2014	0 to 30 bar	0.084% rdg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
4	Pneumatic-Digital/Analogue Vacuum Gauge/Transmitter/Transducer	Using Digital Pressure Gauge with pneumatic pump and Digital Multimeter by Comparison Method as per DKD-R-6-1:2014	(-) 0.90 bar to 0 bar	0.41% of rdg
Group: Mass				
1	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1:2004 ABBA method	1 mg	0.03 mg
2	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1 2004 ABBA method	2 mg	0.03 mg

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68, Shakti Vihar Rudrapur Udham Singh Nagar
(Uttrakhand) -263153, India

Validity: 21.06.2024 to 20.06.2026 **Amended on** N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
3	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	5 mg	0.03 mg
4	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1:2004 ABBA method	10 mg	0.03 mg
5	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	20 mg	0.03 mg
6	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	50 mg	0.03 mg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
7	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	100 mg	0.03 mg
8	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	200 mg	0.04 mg
9	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	500 mg	0.04 mg
10	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	1 g	0.04 mg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
11	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1:2004 ABBA method	2 g	0.04 mg
12	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	5 g	0.04 mg
13	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1 2004 ABBA method	10 g	0.04 mg
14	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1 2004 ABBA method	20 g	0.04 mg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
15	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.01 mg) based on OIML R111-1: 2004 ABBA method	50 g	0.05 mg
16	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.1 mg) based on OIML R111-1: 2004 ABBA method	100 g	0.13 mg
17	Weight F1 Accuracy Class & Coarser	Using E1 Accuracy Class Weights & Weighing Balance (Readability: 0.1 mg) based on OIML R111-1: 2004 ABBA method	200 g	0.25 mg
18	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1: 2004 ABBA method	500 g	1.45 mg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
19	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1: 2004 ABBA method	1 kg	1.91 mg
20	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1: 2004 ABBA method	2 kg	19.67 mg
21	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1 : 2004 ABBA method	5 kg	21.02 mg
22	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1: 2004 ABBA method	10 kg	0.083 mg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
23	Weight F1 Accuracy Class & Coarser	Using F1 Accuracy Class Weights & Weighing Balance (Readability: 100 mg) based on OIML R111-1: 2004 ABBA method	20 kg	93.2 mg
Group: Volume				
1	Micro-Pipette, Pipette (Piston Operated Pipette) Graduated/one mark/Single Volume	Using Distilled Water & Ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2022	20 µl to 100 µl	0.41 µl
2	Micro-Pipette, Pipette (Piston Operated Pipette) Graduated/one mark/Single Volume	Using Distilled Water & Ultra-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2022	>100 µl to 1000 µl	2.55 µl
3	Volumetric Equipment (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Pyknometer)	Using Weighing Balance LC:0.1 mg & Distiller Water based on IS/ISO 4787:2021	>0.1 ml to 20 ml	0.008 ml

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
4	Volumetric Equipment (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Pyknometer)	Using Weighing Balance LC:0.1 mg & Distiller Water based on IS/ISO 4787:2021	>20 ml to 2000 ml	0.11 ml
5	Laboratory Glassware (Volumetric Instruments), Burette, Measuring Cylinder, Flask, Jar, Density Bucket Beaker (Graduated/One Mark type)	Using balance (Cap. 30 kg /d=0.1 g) and using distilled water grade III by Gravimetric method as per IS/ISO 4787:2021	>2000 ml to 20000 ml	20 ml
Group: speed and acceleration				
1	Tachometer (Contact Type)	Using Tachometer and RPM Source by Comparison Method	6 RPM to 8000 RPM	3.15% to 0.11%
2	Tachometer (Non-Contact Type)	Using Tachometer and RPM Source by Comparison Method	6 RPM to 90000 RPM	3.15% to 0.063%

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
3	Tachometer Calibrator/ Stroboscope/ Centrifuge/ RPM Meter/ Vibrating M/c (Contact Type)	Using Tachometer by Direct/Comparison Method Method	6 RPM to 8000 RPM	3.15% to 0.11%
4	Tachometer Calibrator/ Stroboscope/Centrifuge/ RPM Meter/ Vibrating M/c (Non-Contact Type)	Using Tachometer by Direct/Comparison Method Method	6 RPM to 90000 RPM	3.15% to 0.063%
Group: Acoustics				
1	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.90 dB
2	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.90 dB

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

Thermal Calibration (Laboratory Based)

Group: Humidity				
1	Humidity Chamber / Conditioning Chamber / Environmental Chamber / Stability Chamber / Humidity Generator (Multi Position Calibration) @ 25°C as per IEC60068-3-5: 2018	Using Wireless Humidity Data Logger with Inbuilt Sensor (Minimum 9 Sensor) By Comparison Method	10 %RH to 95 %RH	1.3% RH
2	Humidity Chamber / Conditioning Chamber / Environmental Chamber / Stability Chamber / Humidity Generator (Multi Position Calibration) @ 50% RH as per IEC 60068-3-5:2018	Using Wireless Temperature Data Logger with Inbuilt Sensor (Minimum 9 Sensor) By Comparison Method	10 °C to 50 °C	0.7 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
3	Humidity Indicator with Sensor of Humidity Chamber / Conditioning Chamber / Environmental Chamber / Humidity Generator (Single Position Calibration) @ 25°C by comparison method	Using Digital RH Indicator with Sensor by Comparison Method as per DKD-R-5-8: 2019	10 %RH to 95 %RH	1.03% RH
4	Temperature Indicator with Sensor of Humidity Chamber / Conditioning Chamber / Environmental Chamber / Humidity Generator (Single Position Calibration) @ 50% RH by comparison method	Using 4-Wire RTD Sensor with Indicator by Comparison Method	10 °C to 50 °C	0.21 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
5	RH Sensor with Indicator/Controller, Thermo Hygrometer, Data Logger /Recorder /Scanner with Internal/External Sensor @ (25±2)°C	Using Digital RH Indicator with Sensor, Temperature and Humidity Generator by Comparison Method	10 %RH to 95 %RH	1.03% RH
6	Temperature & RH Sensor with Indicator/Controller, Thermo Hygrometer, Data Logger /Recorder /Scanner with Internal/External Sensor @ (50±2)% RH	Using 4-Wire RTD Sensor with Indicator, Temperature and Humidity Generator by Comparison Method	10 °C to 50 °C	0.21 °C
Group: Temperature				
1	Deep Freezers / Refrigerator/Cold Room (Multi Position Calibration)	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	(-)35 °C to 10 °C	1.3°C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
2	Conditioning Chamber / Environmental Chamber/Environmental Room (Multi Position Calibration)	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	>10 °C to 50 °C	1.3 °C
3	Incubator (Non-Medical Purpose) / Autoclave (Non-Medical Purpose) / Oven / Furnace / Water Bath (Multi Position Calibration)	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	>50 °C to 250°C °C	2.5 °C
4	Furnace / Industrial Furnace / Dry Block Furnace / Heating Chamber (Multi Position Calibration)	Using Data Logger with N-Type Thermocouple (Minimum 9 Sensor) By Comparison Method	>250 °C to 600 °C	3.2 °C
5	Furnace / Industrial Furnace / Dry Block Furnace (Multi Position Calibration)	Using Data Logger with N-Type Thermocouple (Minimum 9 Sensor) By Comparison Method	>600 °C to 1200 °C	3.2 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
6	Temperature Indicator with Sensor of Deep Freezers refrigerator/Cold Room (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	(-)35 °C to 10 °C	0.21 °C
7	Temperature Indicator with Sensor of Conditioning Chamber / Environmental Chamber/ Environmental Room (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	>10 °C to 50 °C	0.21 °C
8	Temperature Indicator with Sensor of Incubator (Non-Medical Purpose) / Autoclave (Non-Medical Purpose) / Oven / Furnace / Water Bath (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	>50 °C to 250 °C	0.77 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
9	Temperature Indicator with Sensor of Furnace / Muffle Furnace / Industrial Furnace / Dry Block Furnace / Heating Chamber (Single Position Calibration)	Using S-Type Thermocouple with Indicator By Comparison Method	>250 °C to 600 °C	2.1 °C
10	Temperature Indicator with Sensor of Furnace / Muffle Furnace / Industrial Furnace / Dry Block Furnace (Single Position Calibration)	Using S-Type Thermocouple with Indicator By Comparison Method	>600 °C to 1200 °C	2.5 °C
11	RTD s, Thermocouples with or without controller/Indicator, Dial Temperature Gauge, Glass Thermometer, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using 4-Wire RTD with Indicator,6½ Digital Multimeter & Liquid Temperature Bath By Comparison Method	(-)35 °C to 50 °C	0.21 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
12	RTD s, Thermocouples with or without Controller/Indicator, Dial Temperature Gauge, Glass Thermometer, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using 4-Wire RTD with Indicator, 6½ Digital Multimeter & Oil Temperature Bath By Comparison Method	>50 °C to 250 °C	0.77 °C
13	Thermocouples with or without Controller/Indicator, Dial Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>250 °C to 600 °C	1.94 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
14	Thermocouples with or without Controller/Indicator, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>600 °C to 1000 °C	2.1 °C
15	Thermocouples with or without Controller/Indicator, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>1000 °C to 1200 °C	2.5 °C
16	IR Thermometer, Non Contact Thermometer, Thermal Imager Camera, Pyrometer (Temperature Only)	Using Infrared Thermometer and Black Body Furnace (Emissivity 0.95) by Comparison Method	30 °C to 500 °C	3.73 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (Laboratory Based)		
17	Temperature Indicator with Sensor of Black Body Furnace (Single Position Calibration)	Using Infrared Thermometer by Comparison Method	30 °C to 500 °C	3.73 °C

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

Electro – Technical Calibration (At Site)

Group : Direct Current Measure Mode				
1	DC Current	Using 6½ Dig. Multimeter by Direct Method	1 mA to 1 A	0.09 % to 0.10 %
			1 A to 10 A	0.10 % to 0.19 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mA to 1 A	0.17 % to 0.21 %
			1 A to 10 A	0.21 % to 0.27 %
2	DC Voltage	Using 6½ Dig. Multimeter by Direct Method	1 mV to 100 V	0.17 % to 0.06 %
			100 V to 1000 V	0.06 % to 0.015 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mV to 100 V	0.5 % to 0.3 %
			100 V to 1000 V	0.3 % to 0.2 %
3	Resistance (2 & 4 Wire)	Using 6½ Dig. Multimeter by Direct Method	1 Ohm to 100 kohm	0.08 % to 0.40 %
4	Resistance (2 Wire)	Using 6½ Dig. Multimeter by Direct Method	100 kohm to 1Gohm	0.40 % to 2.33 %
5	DC High Voltage	Using HV Probe with 4½ Dig. Multimeter by Direct Method	1 kV to 38 kV	2.36%

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

Electro – Technical Calibration (At Site)

Group : Alternating Current Measure Mode				
1	AC Current @ 50 Hz	Using 6½ Dig. Multimeter by Direct Method	1 mA to 10 A	0.24%
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	1 mA to 10 A	0.44%
		Using Portable Energy Meter by Comparison Method	10 mA to 120 A	0.069 % to 0.132 %
2.	AC Voltage @ 50 Hz	Using 6½ Dig. Multimeter by Direct Method	10 mV to 100 V	0.33 % to 0.17 %
		Using 6½ Dig. Multimeter by Direct Method	100 V to 1000 V	0.17 % to 0.15 %
		Using Portable Energy Meter by Direct Method	30 V to 300 V	0.059 % to 0.075 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	10 mV to 100 V	1.2 % to 1.18 %
		Using 6½ Dig. Multimeter with 5½ Multi-Function Calibrator by Comparison Method	100 V to 1000 V	1.18 % to 1.16 %

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
3.	Capacitance @ 1 kHz	Using LCR-Q Meter by Direct Method	1 nF to 1 µF	0.69 % to 0.4 %
		Using 6½ Dig. Multimeter by Direct Method	1 nF to 100 µF	0.06 % to 1.3 %
4.	Inductance @ 1 kHz	Using Dig. LCR-Q Meter by Direct Method	100 µH to 1 H	0.56 % to 1.0 %
5.	Resistance @ 1 kHz	Using Dig. LCR-Q Meter by Direct Method	1 Ohm to 100 kohm	0.28%
7.	AC Active Energy 3P3W, 3P4W, (45 to 65)Hz (30 to 300)V, (0.05 to 100)A, UPF to 0.1PF (Lag, Lead)	Using Portable Energy Meter by Comparison Method	1.58Wh to 72 kWh	0.0146 % to 0.163 %
8	AC Active Energy 1P2W, (45 to 65)Hz (30 to 300)V, (0.01 to 100)A, UPF to 0.1PF (Lag, Lead)	Using Portable Energy Meter by Comparison Method	1.2 W to 2.4 kW	0.0146% 0.163 %
9	AC Reactive Energy 3P3W, 3P4W, (45 to 65)Hz (30 to 300)V, (0.05 to 100)A, UPF to 0.1PF (Lag, Lead)	Using Portable Energy Meter by Comparison Method	1.58 kVar to 72 kVar	0.0146 % to 0.137 %

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
10	Phase Angle (0° to 360°), Power Factor (-1 to 1)	Using Portable Energy Meter by Comparison Method	0.1 to 1 (Leg/Lead) PF	0.024 % to 0.028 %
11	Harmonics in Current (3rd to 40th order) Current at 240V,10A	Using Portable Energy Meter by Direct Method	10% to 40%	0.781 % to 0.963 %
12	Harmonics in Voltage (3rd to 40th order) Current at 240V,10A	Using Portable Energy Meter by Direct Method	10% to 40%	0.781 % to 0.963 %
Group : Temperature Simulation Measure Mode				
1	Temperature Source (K Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1290 °C	0.45 °C
2	Temperature Source (B Type Thermocouple)	Using Multi Function Calibrator by Direct Method	600 °C to 1790 °C	1.0 °C
3	Temperature Source (E Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-100 °C to 600 °C	0.44 °C
4	Temperature Source (J Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1190 °C	0.42 °C
5	Temperature Source (N Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1290 °C	0.42 °C

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(Annexure to Certificate of CL - 129)

Laboratory Name: ADNA Technology Services
68, Shakti Vihar Rudrapur Udham Singh Nagar
(Uttrakhand) -263153, India

Validity: 21.06.2024 to 20.06.2024 **Amended on** N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
6	Temperature Source (R Type Thermocouple)	Using Multi Function Calibrator by Direct Method	0 °C to 1690 °C	0.6°C
7	Temperature Source (S Type Thermocouple)	Using Multi Function Calibrator by Direct Method	0 ºC to 1690 °C	0.6 °C
8	Temperature Source (T Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 390 °C	0.41 °C
9	Temperature Source - RTD (PT-100)	Using Multi Function Calibrator by Direct Method	-190 °C to 750 °C	0.44 °C
Group : Time Frequency(Measure Mode)				
1	Dig./Analog Timer/Stop Watch/Hour Meter	Using Time Calibrator by Direct Method	0.1 s to 1 s	0.01 s to 0.02 s
		Using Time Calibrator by Direct Method	1 s to 60 s	0.02 s to 0.08 s
		Using Time Calibrator by Direct Method	60 s to 86400 s	0.08 s to 2.90 s
2	Frequency	Using 6½ Dig. Multimeter by Direct Method	10 Hz to 1000 kHz	0.06%
		Using 6½ Dig. Multimeter with Function Generator by Comparison Method	10 Hz to 1000 kHz	0.06%

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Electro – Technical Calibration (At Site)

Group : Direct Current Source Mode				
1	DC Current	Using 5½ Multifunction calibrators by Direct Method	1 mA – 10A	0.16 % to 0.24 %
		Using 5½ Multi-Function Calibrator with Current Coil (1X100) by Direct Method	10 A to 1000 A	0.24 % to 0.84 %
2.	DC Voltage	Using 5½ Multi-Function Calibrator by Direct Method	1 mV to 1000 V	0.75 % to 0.14 %
3	Resistance	Using Decade Resistance Box by Direct Method	1 Ohm to 1 Mohm	0.77 % to 0.94 %
		Using Megohm Box by Direct Method	2 Mohm	1.02%
		Using Megohm Box by Direct Method	20 Mohm	1.0 %
		Using Megohm Box by Direct Method	100 Mohm	1.81%
		Using Megohm Box by Direct Method	200 Mohm	2.43%
		Using Megohm Box by Direct Method	1 Gohm	2.48%

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

Electro – Technical Calibration (At Site)

		Using Megohm Box by Direct Method	2 Gohm	2.45%
		Using Megohm Box by Direct Method	20 Gohm	2.43%
		Using Megohm Box by Direct Method	200 Gohm	2.52%
		Using Megohm Box by Direct Method	1 Tohm	6.80%
4.	Resistance (4 Wire)	Using Precision Resistance Box by Direct Method	10 µohm	0.28%
		Using Precision Resistance Box by Direct Method	100 µohm	0.11%
		Using Precision Resistance Box by Direct Method	1 mohm	0.10%
		Using Precision Resistance Box by Direct Method	10 mohm	0.13%
		Using Precision Resistance Box by Direct Method	100 mohm	0.13%
		Using Standard Resistance Box by Direct Method	1 mohm	1.17%

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

Electro – Technical Calibration (At Site)

		Using Standard Resistance Box by Direct Method	10 mohm	1.29%
		Using Standard Resistance Box by Direct Method	100 mohm	1.30%
		Using Standard Resistance Box by Direct Method	1 ohm	1.19%
		Using Standard Resistance Box by Direct Method	10 ohm	1.39%
		Using Standard Resistance Box by Direct Method	100 Ohm	1.16%
		Using Standard Resistance Box by Direct Method	1 kohm	1.36%
Group : Alternating Current Source Mode				
1	AC Current @ 50 Hz	Using 5½ Dig. Multi-Function Calibrator by Direct Method	1 mA to 10 A	0.40%
		Using 5½ Dig. Multi-Function Calibrator with Current Coil (1X100) by Direct Method	10 A to 1000 A	1.3%
2	AC Voltage @ 50 Hz	Using 5½ Dig. Multi-Function Calibrator by Direct Method	10 mV to 1000 V	1.21 % to 0.24 %
3	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 1 µF	0.90%

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
4	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 1 H	0.71 % to 0.94 %
Group : Temperature Simulation Source Mode				
1	Temperature Indicator/Temperature Controller/PID/Temperature Recorder - RTD (PT-100)	Using Multi-function Calibrator by Direct Method	-190 °C to 750 °C	0.42 °C
2	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (B Type Thermocouple)	Using Multi function Calibrator by Direct Method	610 °C to 1690 °C	0.65 °C
3	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (J Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1190 °C	0.42 °C
4	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (E Type Thermocouple)	Using Multi Function Calibrator by Direct Method	100 °C to 590 °C	0.42 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
5	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (K Type Thermocouple)	Using Multi Function Calibrator by Direct Method	0 °C to 1290 °C	0.42 °C
6	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (N Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 1290 °C	0.42 °C
7	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (R Type Thermocouple)	Using Multi Function Calibrator by Direct Method	610 °C to 1690 °C	0.87°C
8	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (S Type Thermocouple)	Using Multi Function Calibrator by Direct Method	55 °C to 1690 °C	0.62 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Electro – Technical Calibration (At Site)		
9	Temperature Indicator /Temperature Controller /PID/Temperature Recorder & Thermocouple Indicator (T Type Thermocouple)	Using Multi Function Calibrator by Direct Method	-190 °C to 390 °C	0.4 1°C
Group : Time Frequency(Source Mode)				
1	Frequency	Using Dig. Function Generator by Direct Method	10 Hz to 1000 kHz	0.58%

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Fluid - Flow Calibration (At Site)

Group: Flow Rate of Volume				
1	Volume Flow Rate (Flow Elements/ Flow Meter/ Flow Transmitter) – Liquid Medium	Using Ultrasonic Hand held Flow Meter & $6^{1/2}$ Digital Multimeter by Comparison	0.8m^3/ hr to 350 m^3/ hr	5.1% rdg to 1.82%

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

Mechanical Calibration (At Site)

Group: Dimension				
1	Air Gauge Unit	Using Standard Ring & Plug 20 mm Dia.	-0.022 mm to 0.022 mm	3.9 µm
2	Surface Plate	Using Electronic Level IS 12937: 2020 ,IS 2285: 2020 ,IS 7327 2019	Up to 3000X2000 mm	1.5sqrt (L+W)/125 µm to L&W in mm
3	Profile Projector (Angle Scale L.C. 1")	Using Angle Gauge Set & JIS B 7184:2021	Upto 360°	2.47 minute
4	Profile Projector (Magnification)	Using Glass Scale, Slip Gauge Set, Dig. Vernier & JIS B 7184:2021	10X to 100X	0.40%
5	Profile Projector Linear Scale L.C.: 0.001mm Linear	Using Glass Scale & Slip Gauge Set & JIS B 7184:2021	Upto 300 mm	6.5 µm

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (At Site)		
6	2D Height Gauge	Caliper cheker , Master Cylinder	0 mm to 600 mm	7 µm
7	Bench Center	Using Test Manderl and Dial Indicator & IS 5980:1978	200 mm	7.36 µm
Group: Pressure & Vacuum				
1	Hydraulic Pressure: Digital/Analogue Pressure Gauge/Pressure Transmitter/Transducer/ Pressure Switch	Using Digital Pressure Gauge with Hydraulic comparator and Digital Multimeter by Comparison Method as per DKD-R-6-1 : 2014	0 to 700 bar	0.18% of rdg
2	Pneumatic Pressure: Digital/Analogue Low Pressure Gauge/ Manometer/Magnehelic Gauge/Differential Gauge/Transmitter/ Transducer/Pressure Switch	Using Digital Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R-6-1: 2014	(-)2000 Pa to 2000 Pa	0.16% rdg

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (At Site)		
3	Pneumatic-(Digital/Analogue Pressure Gauge/Pressure Transmitter/Transducer/ Pressure Switch)	Using Digital Pressure Gauge with pneumatic pump and Digital Multimeter by Comparison Method as per DKD-R-6-1:2014	0 to 30 bar	0.084% rdg
4	Pneumatic-Digital/Analogue Vacuum Gauge/Transmitter/Transducer	Using Digital Pressure Gauge with pneumatic pump and Digital Multimeter by Comparison Method as per DKD-R-6-1:2014	(-) 0.90 bar to 0 bar	0.41% of rdg
Group: Mass				
1	Digital/Analog Weighing Balances, Semi Micro Balances d= 0.1 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1: 2006 & ASTM E898: 2020	0 to 220 g	0.2mg
2	Digital/Analog Weighing Balances, d= 1 mg Class II and coarser	Using Standard Weight(s) of E1 and F1 class Methods as per OIML R 76-1: 2006 & ASTM E898: 2020	>220 g to 500 g	1.5mg
3	Digital/Analog Weighing Balances, Mass Comparator, d = 1 g Class III and coarser	Using Standard Weight(s) of F1 Class Methods as per OIML R 76-1: 2006 & ASTM E898: 2020	>500 g to 50 kg	3.74g

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (At Site)		
4	Digital/Analog Weighing Balances, Mass Comparator, d = 10 g Class IV and coarser	Using Standard Weight(s) of F1 Class Methods as per OIML R 76-1: 2006 & ASTM E898: 2020	>50 kg to 300 kg	73g
Group: SPEED AND ACCELARATION				
1	Tachometer (Contact Type)	Using Tachometer and RPM Source by Comparison Method	6 RPM to 8000 RPM	3.15% to 0.11%
2	Tachometer (Non-Contact Type)	Using Tachometer and RPM Source by Comparison Method	6 RPM to 90000 RPM	3.15% to 0.063%
3	Tachometer Calibrator/ Stroboscope/ Centrifuge/ RPM Meter/ Vibrating M/c (Contact Type)	Using Tachometer by Direct/Comparison Method Method	6 RPM to 8000 RPM	3.15% to 0.11%
4	Tachometer Calibrator/ Stroboscope/ Centrifuge/ RPM Meter/ Vibrating M/c (Non Contact Type)	Using Tachometer by Direct/Comparison Method Method	6 RPM to 90000 RPM	3.15% to 0.063%

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Mechanical Calibration (At Site)

Group: Force				
1	Tensile/Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer (Tension Mode)	Using Class "0.5 & 1" Load Cell with Indicator as per IS 1828 (Part 1):2022	100 N to 200kN	0.60%
2	Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Fluxural Testing Machine (Compression Mode)	Using Class "0.5 & 1" Load Cell with Indicator as per IS 1828 (Part 1):2022	100 N to 200kN	0.60%
3	Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Fluxural Testing Machine (Compression Mode)	Using Class "1" Force Proving Instruments as per IS 1828 (Part 1):2022	200 kN to 2000kN	0.60%
Group: Acoustics				
1	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.90 dB
2	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.93 dB

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (At Site)		
Group: Humidity				
1	Humidity Chamber / Conditioning Chamber / Environmental Chamber / Stability Chamber / Humidity Generator (Multi Position Calibration) @ 25°C as per IEC60068-3-5: 2018	Using Wireless Humidity Data Logger with Inbuilt Sensor (Minimum 9 Sensor) By Comparison Method	10 %RH to 95 %RH	1.3% RH
2	Humidity Chamber / Conditioning Chamber / Environmental Chamber / Stability Chamber / Humidity Generator (MultiPositionCalibration) @ 50% RH as per IEC 60068-3-5:2018	Using Wireless Temperature Data Logger with Inbuilt Sensor (Minimum 9 Sensor) By Comparison Method	10 °C to 50 °C	0.7 °C
3	Humidity Indicator with Sensor of Humidity Chamber / Conditioning Chamber/Environmental Chamber / Humidity Generator (Single Position Calibration) @ 25°C by comparison method	Using Digital RH Indicator with Sensor by Comparison Method as per DKD-R-5-8: 2019	10 %RH to 95 %RH	1.03% RH

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (At Site)		
4	Temperature Indicator with Sensor of Humidity Chamber / Conditioning Chamber / Environmental Chamber / Humidity Generator (Single Position Calibration) @ 50% RH by comparison method	Using 4-Wire RTD Sensor with Indicator by Comparison Method	10 °C to 50 °C	0.21 °C
5	RH Sensor with Indicator/Controller, Thermo Hygrometer, Data Logger /Recorder /Scanner with Internal/External Sensor @ (25±2)°C	Using Digital RH Indicator with Sensor, Temperature and Humidity Generator by Comparison Method	10 %RH to 95 %RH	1.03% RH
6	Temperature & RH Sensor with Indicator/Controller, Thermo Hygrometer, Data Logger /Recorder /Scanner with Internal/External Sensor @ (50±2)% RH	Using 4-Wire RTD Sensor with Indicator, Temperature and Humidity Generator by Comparison Method	10 °C to 50 °C	0.21 °C

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		Thermal Calibration (At Site)		
Group: Temperature				
1	Deep Freezers / Refrigerator/Cold Room (Multi Position Calibration	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	(-)35 °C to 10 °C	1.3°C
2	Conditioning Chamber / Environmental Chamber/ Environmental Room (Multi Position Calibration)	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	>10 °C to 50 °C	1.3 °C
3	Incubator (Non Medical Purpose) / Autoclave (Non Medical Purpose) / Oven / Furnace / Water Bath (Multi Position Calibration)	Using Data Logger with RTD Sensor (Minimum 9 Sensor) By Comparison Method	>50 °C to 250°C °C	2.5 °C
4	Furnace / Industrial Furnace / Dry Block Furnace / Heating Chamber (Multi Position Calibration)	Using Data Logger with N-Type Thermocouple (Minimum 9 Sensor) By Comparison Method	>250 °C to 600 °C	3.2 °C

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		Thermal Calibration (At Site)		
5	Furnace / Industrial Furnace / Dry Block Furnace (Multi Position Calibration)	Using Data Logger with N-Type Thermocouple (Minimum 9 Sensor) By Comparison Method	>600 °C to 1200 °C	3.2 °C
6	Temperature Indicator with Sensor of Deep Freezers / Refrigerator/Cold Room (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	(-)35 °C to 10 °C	0.21 °C
7	Temperature Indicator with Sensor of Conditioning Chamber / Environmental Chamber/Environmental Room (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	>10 °C to 50 °C	0.21 °C
8	Temperature Indicator with Sensor of Incubator (Non Medical Purpose) / Autoclave (Non Medical Purpose) / Oven / Furnace / Water Bath (Single Position Calibration)	Using 4-Wire RTD Sensor with Indicator By Comparison Method	>50 °C to 250 °C	0.77 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (At Site)		
9	Temperature Indicator with Sensor of Furnace / Muffle Furnace / Industrial Furnace / Dry Block Furnace / Heating Chamber (Single Position Calibration)	Using S-Type Thermocouple with Indicator By Comparison Method	>250 °C to 600 °C	2.1 °C
10	Temperature Indicator with Sensor of Furnace / Muffle Furnace / Industrial Furnace / Dry Block Furnace (Single Position Calibration)	Using S-Type Thermocouple with Indicator By Comparison Method	>600 °C to 1200 °C	2.5 °C
11	RTD s, Thermocouples with or without Controller/Indicator, Dial Temperature Gauge, Glass Thermometer, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using 4-Wire RTD with Indicator,6½ Digital Multimeter & Liquid Temperature Bath By Comparison Method	(-)35 °C to 50 °C	0.21 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Thermal Calibration (At Site)		
12	RTD s, Thermocouples with or without Controller/Indicator, Dial Temperature Gauge, Glass Thermometer, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using 4-Wire RTD with Indicator, 6½ Digital Multimeter & Oil Temperature Bath By Comparison Method	>50 °C to 250 °C	0.77 °C
13	Thermocouples with or without Controller/Indicator, Dial Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>250 °C to 600 °C	1.94 °C
14	Thermocouples with or without Controller/Indicator, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>600 °C to 1000 °C	2.1 °C

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		Thermal Calibration (At Site)		
15	Thermocouples with or without Controller/Indicator, Temperature Transmitter, Data Logger/Recorder/Scanner with Sensor	Using S-Type Thermocouple with Indicator, 6½ Digital Multimeter & Dry Block Furnace By Comparison Method	>1000 °C to 1200 °C	2.5 °C
16	IR Thermometer, Non Contact Thermometer, Thermal Imager Camera, Pyrometer (Temperature Only)	Using Infrared Thermometer and Black Body Furnace (Emissivity 0.95) by Comparison Method	30 °C to 500 °C	3.73 °C
17	Temperature Indicator with Sensor of Black Body Furnace (Single Position Calibration)	Using Infrared Thermometer by Comparison Method	30 °C to 500 °C	3.73 °C

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

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