

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 - 119)

Laboratory Name: M/s Authentic Instrument Industries Limited
31, RIICO Industries Area Near Kamani Chauraha, Jaipur Rajasthan-302012

Validity 28.06.2024 to 01.02.2026 Amended on NA

Electro technical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)

1	AC Current at 50Hz	Using 5½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.33 %
2	AC Current at 50Hz	Using 5½ Digit Multimeter by Direct Method	100 mA to 10 A	0.33 % to 0.26 %

ELECTRO- TECHNICAL- AC Voltage (< 1 GHz) (Measure)

1	AC Voltage@50 Hz	Using 5½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.74 % to 0.5 %
2	AC Voltage at 50Hz	Using 5½ Digit Multimeter by Direct Method	100 mV to 1 V	0.5 % to 0.2 %
3	AC Voltage at 50Hz	Using 5½ Digit Multimeter by Direct Method	1 V to 750 V	0.2 %

ELECTRO- TECHNICAL- AC High Voltage (Measure)

1	AC High Voltage	High Voltage Probe with Multimeter by Direct Method	0.5 kV to 25 kV	4.4 %
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ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)

1	DC Current	Using 5½ Digit Multimeter by Direct Method	0.1 mA to 1 mA	4.4 % to 0.57 %
2	DC Current	Using 5½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.57 % to 0.15 %
3	DC Current	Using 5½ Digit Multimeter by Direct Method	100 mA to 1 A	0.15 %

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Electro technical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
4	DC Current	Using 5½ Digit Multimeter by Direct Method	1 A to 10 A	0.15 % to 0.2 %
ELECTRO- TECHNICAL- DC Voltage (Measure)				
1	DC Voltage	Using 5½ Digit Multimeter by Direct Method	1 mV to 100 mV	5.72 % to 0.18 %
2	DC Voltage	Using 5½ Digit Multimeter by Direct Method	100 mV to 1 V	0.18 %
3	DC Voltage	Using 5½ Digit Multimeter by Direct Method	1 V to 1000 V	0.18 %
ELECTRO- TECHNICAL- DC High Voltage (Measure)				
1	DC High Voltage	High Voltage Probe with Multimeter by Direct Method	0.5 kV to 25 kV	4.4 %
ELECTRO- TECHNICAL-Alternating Current (< 1 GHz) (Source)				
1	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 2 mA	3.6 % to 0.43 %
2	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	2 mA to 2000 mA	0.43 %
3	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	2 A to 10 A	0.80 %

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4	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.80 % to 1.0 %
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ELECTRO- TECHNICAL-AC Voltage (< 1 GHz) (Source)

1	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	10 mV to 200 mV	1.15 % to 0.35 %
2	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	200 mV to 2 V	0.35 %
3	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 V to 1000 V	0.35 %

ELECTRO- TECHNICAL-Power and Energy (Source)

1	Active Energy (1 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V)/(0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator by Direct Method	0.010 kWh to 1.0 kWh	0.23 % to 0.3 %
2	Active Energy (3 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V)/(0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator by Direct Method	0.030 kWh to 3 kWh	0.31 %

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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3	Active Power (1 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V) / (0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator by Direct Method	10 W to 1000 W	1.31 % to 0.3 %
4	Active Power (3 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V) / (0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator by Direct Method	30 W to 3000 W	0.45 % to 0.24 %
5	Power Factor (Lag/ Lead) at 230 V/5A@ 50Hz	Using Power Energy Calibrator by Direct Method	UPF to 0.5 (Lag/Lead)	0.007

ELECTRO- TECHNICAL- DIRECT CURRENT (Source)

1	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	0.2 mA to 2 mA	4.3 % to 0.5 %
2	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 mA to 2000 mA	0.5 % to 0.3 %
3	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 A to 10 A	0.3 %
4	DC Current	Using 5½ Digit Multifunction Calibrator	10 A to 1000 A	0.68 % to 0.9 %

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Electro technical Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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		and Current Coil, By Direct Method		
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ELECTRO- TECHNICAL- DC Voltage (Source)

1	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	1 mV to 200 mV	5.92 % to 0.3 %
2	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	200 mV to 2 V	0.3 % to 0.2 %
3	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	2 V to 1000 V	0.2 %

ELECTRO- TECHNICAL- RESISTANCE (Source)

1	Resistance	Using Decade Standard Resistance Box by Direct Method	1 Ohm to 10 Ohm	1.15 %
2	Resistance	Using Decade Standard Resistance Box by Direct Method	10 Ohm to 100 Ohm	1.15 %
3	Resistance	Using Decade Standard Resistance Box by Direct Method	100 Ohm to 1 kohm	1.15 %
4	Resistance	Using Decade Standard Resistance Box by Direct Method	1 kohm to 1 Gohm	1.15 %

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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- RESISTANCE (Measure)

1	Resistance	Using 5½ Digit Multimeter By Direct Method	1 Ohm to 10 Ohm	1.15 %
2	Resistance	Using 5½ Digit Multimeter By Direct Method	10 Ohm to 100 Ohm	1.15 %
3	Resistance	Using 5½ Digit Multimeter By Direct Method	100 Ohm to 1 kohm	1.15 %
4	Resistance	Using 5½ Digit Multimeter By Direct Method	1 kohm to 100 Mohm	1.15 %

ELECTRO- TECHNICAL- ELECTRICAL EQUIPMENT (Source)

1	Conductivity Meter/Conductivity Transmitter/TDS Meter	Using Decade Resistance Box by Simulation Method	1 μ S to 10 mS	6.5 % to 0.2 %
2	pH Meter	Using Process Calibrator by Simulation Method	1 pH to 14 pH	2.41 % to 0.19 %

ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)

1	J-Type Thermocouple (Temperature Indicator/Controller/Data Logger/Recorder/Process Meter/ RTD)	Using Temperature Calibrator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1200 °C	1.15 °C
2	K- Type Thermocouple (Temperature Indicator/Controller/Data	Using Temperature Calibrator by Direct Method (Simulation	(-)200 °C to 1200 °C	2.74 °C

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	Logger/Recorder/Process Meter/ RTD)	Method) as per Euramet Guide - CG-11		
3	RTD Type/ PT-100 (Temperature Indicator/Controller/Data Logger/Recorder/Process Meter/ RTD)	Using Temperature Calibrator by Direct Method (Simulation Method) as per Euromet Guide - CG-11	(-)200 °C to 600 °C	0.6 °C

ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)

1	J- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1000 °C	1.15 °C
2	K- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1200 °C	2.74 °C
3	RTD Type/ PT- 100(Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 600 °C	0.6 °C

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4	R- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 1700 °C	0.9 °C
5	N- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1300 °C	0.5 °C
6	B- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	600 °C to 1800 °C	0.23 °C
7	E- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 800 °C	0.3 °C

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8	S- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 1700 °C	0.9 °C
9	T- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 350 °C	0.4 °C

ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)

1	Time	Using Time Calibrator By direct Method	1 s to 9999 s	3.54 % to 0.15 %
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ELECTRO- TECHNICAL- FREQUENCY (Source)

1	Frequency	Using 5½ Digit Multifunction Calibrator By Direct Method	45 Hz to 1 kHz	0.22 % to 0.11 %
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ELECTRO- TECHNICAL- FREQUENCY (Measure)

1	Frequency	Using 5½ Digit multimeter By Direct Method	45 Hz to 1 kHz	0.22 % to 0.11 %
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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- Alternating Current (< 1 GHz) (Measure)

1	AC Current at 50Hz	Using 5½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.33 %
2	AC Current at 50Hz	Using 5½ Digit Multimeter By Direct Method	100 mA to 10 A	0.33 % to 0.26 %

ELECTRO- TECHNICAL- AC Voltage (< 1 GHz) (Measure)

1	AC Voltage@50 Hz	Using 5½ Digit Multimeter By Direct Method	10 mV to 100 mV	0.74 % to 0.5 %
2	AC Voltage at 50Hz	Using 5½ Digit Multimeter By Direct Method	100 mV to 1 V	0.5 % to 0.2 %
3	AC Voltage at 50Hz	Using 5½ Digit Multimeter By Direct Method	1 V to 750 V	0.2 %

ELECTRO- TECHNICAL- AC High Voltage (Measure)

1	AC High Voltage	High Voltage Probe with Multimeter by Direct Method	0.5 kV to 25 kV	4.4 %
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ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)

1	DC Current	Using 5½ Digit Multimeter By Direct Method	0.1 mA to 1 mA	4.4 % to 0.57 %
2	DC Current	Using 5½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.57 % to 0.15 %

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
3	DC Current	Using 5½ Digit Multimeter By Direct Method	100 mA to 1 A	0.15 %
4	DC Current	Using 5½ Digit Multimeter By Direct Method	1 A to 10 A	0.15 % to 0.2 %
ELECTRO- TECHNICAL- DC Voltage (Measure)				
1	DC Voltage	Using 5½ Digit Multimeter By Direct Method	1 mV to 100 mV	5.72 % to 0.18 %
2	DC Voltage	Using 5½ Digit Multimeter By Direct Method	100 mV to 1 V	0.18 %
3	DC Voltage	Using 5½ Digit Multimeter By Direct Method	1 V to 1000 V	0.18 %
ELECTRO- TECHNICAL- DC High Voltage (Measure)				
1	DC High Voltage	High Voltage Probe with Multimeter by Direct Method	0.5 kV to 25 kV	4.4 %
ELECTRO- TECHNICAL-Alternating Current (< 1 GHz) (Source)				
1	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator By Direct Method	0.2 mA to 2 mA	3.6 % to 0.43 %
2	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator By Direct Method	2 mA to 2000 mA	0.43 %

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3	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator By Direct Method	2 A to 10 A	0.80 %
4	AC Current at 50Hz	Using 5½ Digit Multifunction Calibrator with Current Coil By Direct Method	10 A to 1000 A	0.80 % to 1.0 %
ELECTRO- TECHNICAL-AC Voltage (< 1 GHz) (Source)				
1	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	10 mV to 200 mV	1.15 % to 0.35 %
2	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	200 mV to 2 V	0.35 %
3	AC Voltage at 50Hz	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 V to 1000 V	0.35 %
ELECTRO- TECHNICAL-Power and Energy (Source)				
1	Active Energy (1 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V)/(0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator By Direct Method	0.010 kWh to 1.0 kWh	0.23 % to 0.3 %

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2	Active Energy (3 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V)/(0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator By Direct Method	0.030 kWh to 3 kWh	0.31 %
3	Active Power (1 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V) / (0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator By Direct Method	10 W to 1000 W	1.31 % to 0.3 %
4	Active Power (3 phase), at (UPF to 0.5) (Lead/Lag) (40 V to 300 V) / (0.5 A to 6A) @50 Hz	Using Power/ Energy Meter Calibrator By Direct Method	30 W to 3000 W	0.45 % to 0.24 %
5	Power Factor (Lag/Lead) at 230 V/5A@ 50Hz	Using Power Energy Calibrator By Direct Method	UPF to 0.5 (Lag/Lead)	0.007

ELECTRO- TECHNICAL- DIRECT CURRENT (Source)

1	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	0.2 mA to 2 mA	4.3 % to 0.5 %
2	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 mA to 2000 mA	0.5 % to 0.3 %

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3	DC Current	Using 5½ Digit Multifunction Calibrator, By Direct Method	2 A to 10 A	0.3 %
4	DC Current	Using 5½ Digit Multifunction Calibrator and Current Coil, By Direct Method	10 A to 1000 A	0.68 % to 0.9 %

ELECTRO- TECHNICAL- DC Voltage (Source)

1	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	1 mV to 200 mV	5.92 % to 0.3 %
2	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	200 mV to 2 V	0.3 % to 0.2 %
3	DC Voltage	Using 5½ Digit Multifunction Calibrator By Direct Method	2 V to 1000 V	0.2 %

ELECTRO- TECHNICAL- RESISTANCE (Source)

1	Resistance	Using Decade Standard Resistance Box By Direct Method	1 Ohm to 10 Ohm	1.15 %
2	Resistance	Using Decade Standard Resistance Box By Direct Method	10 Ohm to 100 Ohm	1.15 %

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3	Resistance	Using Decade Standard Resistance Box By Direct Method	100 Ohm to 1 kohm	1.15 %
4	Resistance	Using Decade Standard Resistance Box By Direct Method	1 kohm to 1 Gohm	1.15 %

ELECTRO- TECHNICAL- RESISTANCE (Measure)

1	Resistance	Using 5½ Digit Multimeter By Direct Method	1 Ohm to 10 Ohm	1.15 %
2	Resistance	Using 5½ Digit Multimeter By Direct Method	10 Ohm to 100 Ohm	1.15 %
3	Resistance	Using 5½ Digit Multimeter By Direct Method	100 Ohm to 1 kohm	1.15 %
4	Resistance	Using 5½ Digit Multimeter By Direct Method	1 kohm to 100 Mohm	1.15 %

ELECTRO- TECHNICAL- ELECTRICAL EQUIPMENT (Source)

1	Conductivity Meter/Conductivity Transmitter/TDS Meter	Using Decade Resistance Box by Simulation Method	1 μ S to 10 mS	6.5 % to 0.2 %
2	pH Meter	Using Process Calibrator by Simulation Method	1 pH to 14 pH	2.41 % to 0.19 %

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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- TEMPERATURE SIMULATION (Source)

1	J-Type Thermocouple (Temperature Indicator/Controller/ Data Logger/Recorder/Pro cess Meter/ RTD)	Using Temperature Calibrator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1200 °C	1.15 °C
2	K- Type Thermocouple (Temperature Indicator/Controller/ Data Logger/Recorder/Pro cess Meter/ RTD)	Using Temperature Calibrator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1200 °C	2.74 °C
3	RTD Type/ PT-100 (Temperature Indicator/Controller/ Data Logger/Recorder/Pro cess Meter/ RTD)	Using Temperature Calibrator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 600 °C	0.6 °C

ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)

1	J- Type Thermocouple	Using 5½ Digital Multimeter, Precision	(-)200 °C to 1000 °C	1.15 °C
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118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 119)

Laboratory Name: M/s Authentic Instrument Industries Limited
31, RIICO Industries Area Near Kamani Chauraha, Jaipur Rajasthan-302012

Validity 28.06.2024 to 01.02.2026

Amended on NA

Electro technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
	(Temperature Calibrator /Process meter)	Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11		
2	K- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 1200 °C	2.74 °C
3	RTD Type/ PT- 100(Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 600 °C	0.6 °C
4	R- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 1700 °C	0.9 °C
5	N- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	-200°C to 1300°C	0.5 °C
6	B- Type Thermocouple	Using 5½ Digital Multimeter, Precision	600 °C to 1800 °C	0.23 °C

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Electro technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
	(Temperature Calibrator /Process meter)	Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11		
7	E- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 800 °C	0.3 °C
8	S- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	0 °C to 1700 °C	0.9 °C
9	T- Type Thermocouple (Temperature Calibrator /Process meter)	Using 5½ Digital Multimeter, Precision Indicator by Direct Method (Simulation Method) as per Euramet Guide - CG-11	(-)200 °C to 350 °C	0.4 °C
ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)				
1	Time	Using Time Calibrator By direct Method	1 s to 9999 s	3.54 % to 0.15 %

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Electro technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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ELECTRO- TECHNICAL- FREQUENCY (Source)

1	Frequency	Using 5½ Digit Multifunction Calibrator By Direct Method	45 Hz to 1 kHz	0.22 % to 0.11 %
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ELECTRO- TECHNICAL- FREQUENCY (Measure)

1	Frequency	Using 5½ Digit multimeter By Direct Method	45 Hz to 1 kHz	0.22 % to 0.11 %
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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Speed and Acceleration				
1	Tachometer	Using Digital Tachometer & RPM Source by comparison method	10 RPM to 100 RPM	7.50%
			100 RPM to 1000 RPM	3.00%
2	RPM Source/ Centrifuge	Using Digital Tachometer	10 RPM to 100 RPM	7.50%
			100 RPM to 1000 RPM	3.00%

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Amended on NA

Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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THERMAL- SPECIFIC HEAT & HUMIDITY				
1	Digital/ Analog Hygrometer With In-Built/ External Humidity Sensor, Thermohygrometer	Using Humidity Indicator with Sensor and Controlled Humidity Chamber/ Generator by Comparison method	10 %rh to 95 %rh @ 25 °C	2.1 % rh
2	Digital/Analog Hygrometer with In-Built/ External Humidity Sensor, Thermohygrometer	Using 4 wire RTD with Indicator, Controlled Temperature Chamber by Comparison method	20 °C to 50 °C @ 50% rh	0.68 °C
THERMAL- TEMPERATURE				
1	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Chiller Bath by Comparison method	(-)80 °C to (-)10 °C	0.32 °C
2	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Chiller Bath by Comparison method	(-)25 °C to 100 °C	0.32 °C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
	Recorders/ Temperature Transmitter			
3	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Silicon Oil Bath by Comparison method	100 °C to 300 °C	0.37 °C
4	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Dry Block Furnace by Comparison method	50 °C to 600 °C	0.6 °C
5	Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using N Type Thermocouple, 5½ Digital Multimeter, Precision Indicator, Dry Block Furnace by Comparison method	300°C to 1200°C	1.9 °C
6	Temperature Indicator with Sensor of Deep Freezer. Refrigerator/ Chiller Bath (Single Position)	Using 4-Wire RTD with indicator by Comparison method	(-)80 °C to 10 °C	0.9 °C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
7	Temperature Indicator with Sensor of Melting Point Apparatus, Water Bath, Incubator, Oven, Autoclave, BOD Incubator (Single Position)	Using 4-Wire RTD with indicator as per DKD-R-5-7 by Comparison method	10 °C to 300 °C	1 °C
8	Temperature Indicator with Sensor of Furnace (Single Position)	Using N Type Thermocouple with indicator by Comparison method	300 °C to 1200 °C	2 °C
9	Chamber, Deep Freezer, Refrigerator, Cold Storage (Multi Position)	Using RTD Probes (minimum 9) with Data Logger by Comparison method	(-) 80 °C to 10 °C	2.5 °C
10	Chamber, Oven, Incubator, Autoclave, Dry Block, Cryo Bath, Water Bath, BOD Incubator (Multi Position)	Using RTD Probes (minimum 9) with Data Logger by Comparison method	10 °C to 250 °C	2.5 °C
11	Liquid-In-Glass Thermometer	Using 4-Wire RTD with indicator and Liquid Bath by Comparison method	-10 °C to 100 °C	0.32 °C

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Thermal Calibration (Laboratory Based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
12	Liquid-In-Glass Thermometer	Using 4-Wire RTD with indicator and Liquid Bath by Comparison method	30 °C to 250 °C	0.35 °C
13	IR Gun	Using IR Gun and Black Body Source by Comparison Method	50 °C to 500 °C	2.7 °C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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THERMAL- SPECIFIC HEAT & HUMIDITY

1	Digital/ Analog Hygrometer with In-Built/ External Humidity Sensor, Thermohygrometer	Using Humidity Indicator with Sensor and Controlled Humidity Chamber/ Generator by Comparison method	10 %rh to 95 %rh @ 25 °C	2.5 %rh
2	Digital/Analog Hygrometer with In-Built/ External Humidity Sensor, Thermohygrometer	Using 4 wire RTD with Indicator, Controlled Temperature Chamber by Comparison method	20 °C to 50 °C @ 50% rh	0.7 °C
3	Temperature and Humidity indicator with sensor of humidity chamber, Humidity generator, Environmental Chamber (Single Position)	Using Temperature humidity Indicator with sensor/ Temperature Data logger by comparison method	10 %rh to 95 %rh @ 25 °C	3.15 %rh

THERMAL- TEMPERATURE

1	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Chiller Bath by Comparison method	(-)30 °C to 100 °C	0.35 °C
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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
	Recorders/ Temperature Transmitter			
2	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Silicon Oil Bath by Comparison method	100 °C to 300 °C	0.4 °C
3	RTD/ Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using 4-Wire RTD with indicator, 5½ Digital Multimeter, Precision Indicator, Dry Block Furnace by Comparison method	50 °C to 600 °C	0.8 °C
4	Thermocouple/ Temperature Sensor with or without Temperature Indicator/ Data Loggers/ Recorders/ Temperature Transmitter	Using N Type Thermocouple, 5½ Digital Multimeter, Precision Indicator, Dry Block Furnace by Comparison method	300 °C to 1200 °C	2 °C
5	Temperature Indicator with Sensor of Deep Freezer. Refrigerator/ Chiller Bath (Single Position)	Using 4-Wire RTD with indicator by Comparison method	(-)80 °C to 10 °C	1 °C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
6	Temperature Indicator with Sensor of Melting Point Apparatus, Water Bath, Incubator, Oven, Autoclave, BOD Incubator (Single Position)	Using 4-Wire RTD with indicator as per DKD-R-5-7 by Comparison method	10 °C to 300 °C	1.3 °C
7	Temperature Indicator with Sensor of Furnace (Single Position)	Using N Type Thermocouple with indicator by Comparison method	300 °C to 1200 °C	2.3 °C
8	Chamber, Deep Freezer, Refrigerator, Cold Storage (Multi Position)	Using RTD Probes (minimum 9) with Data Logger by Comparison method	(-) 80 °C to 10 °C	2.8 °C
9	Chamber, Oven, Incubator, Autoclave, Dry Block, Cryo Bath, Water Bath, BOD Incubator (Multi Position)	Using RTD Probes (minimum 9) with Data Logger by Comparison method	10 °C to 250 °C	2.8 °C
10	Liquid-In-Glass Thermometer	Using 4-Wire RTD with indicator and Liquid Bath by Comparison method	-10 °C to 100 °C	0.35 °C

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
11	Liquid-In-Glass Thermometer	Using 4-Wire RTD with indicator and Liquid Bath by Comparison method	30 °C to 250 °C	0.38 °C
12	IR Gun	Using IR Gun and Black Body Source by Comparison Method	50 °C to 500 °C	2.7 °C

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

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