National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PIPETTEMANN CALIBRATION LABORATORY LLP, NO.22, SRI SAI RAM BHAVAN, FIRST FLOOR, RASHANTHI NAGAR, K.R.PURAM, AVARAMPALAYAM ROAD, COIMBATORE, TAMIL NADU, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT100	Using Temperature Calibrator By Direct Method	(-) 200 °C to 800 °C	0.51 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B-Type	Using Temperature Calibrator By Direct Method	600 °C to 1800 °C	2.40 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 950 °C	1.3 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1200 °C	1.16 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1370 °C	1.50 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1300 °C	1.50 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-Type	Using Temperature Calibrator By Direct Method	100 °C to 1750 °C	2.02 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-Type	Using Temperature Calibrator By Direct Method	100 °C to 1750 °C	2 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 400 °C	1 °C
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	1 hour to 5 hour	0.8 s to 5.13 s
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	1 s to 1 hour	0.18 s to 0.8 s

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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	5 hour to 24 hour	5.13 s to 14.70 s
13	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>10000 rpm to 14000 rpm	12.4 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>5000 rpm to 10000 rpm	7.3 rpm
15	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>500 rpm to 5000 rpm	4.6 rpm
16	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	100 rpm to 500 rpm	2.2 rpm
17	MECHANICAL-VOLUME	Pipette Controller	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water as per ISO 8655:2022 Part - 6	1 ml to 50 ml	29 µl

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18	MECHANICAL-VOLUME	Piston Operated Burette	Using Electronic Weighing Balances (Readability: 0.01 mg / 0.1 mg) With Grade III Water as per ISO 8655:2022 Part - 6	1 ml to 50 ml	29 µl
19	MECHANICAL-VOLUME	Piston Operated Dispenser	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water as per ISO 8655:2022 Part - 6	0.25 ml to 100 ml	119 µl
20	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.001mg / 0.01mg) With Grade III Water As Per ISO 8655:2022 Part - 6	0.2 µl to 50 µl	0.03 µl
21	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.01 mg) With Grade III Water as per ISO 8655:2022 Part - 6	100 µl to 200 µl	0.1 µl

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22	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water as per ISO 8655:2022 Part - 6	1000 µl to 5000 µl	6 µl
23	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.01 mg) With Grade III Water as per ISO 8655:2022 Part - 6	200 µl to 1000 µl	0.3 µl
24	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.01 mg) With Grade III Water as per ISO 8655:2022 Part - 6	50 µl to 100 µl	0.11 µl
25	MECHANICAL-VOLUME	Piston Operated Micropipette	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water as per ISO 8655:2022 Part - 6	5000 µl to 10000 µl	6 µl

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26	MECHANICAL-VOLUME	Volumetric Glassware - Burettes	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water By Gravimetric Method as per ISO 4787:2021	1 ml to 100 ml	0.087 ml
27	MECHANICAL-VOLUME	Volumetric Glassware - Conical Flask & Graduated Beaker	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg / 1 mg / 10 mg) With Grade III Water by Gravimetric Method as per ISO 4787:2021	1 ml to 2000 ml	0.45 ml
28	MECHANICAL-VOLUME	Volumetric Glassware - Graduated Pipette	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg) With Grade III Water By Gravimetric Method as per ISO 4787:2021	1 ml to 25 ml	0.1 ml

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29	MECHANICAL-VOLUME	Volumetric Glassware - Measuring Cylinder	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg / 1 mg / 10 mg) With Grade III Water By Gravimetric Method as per ISO 4787:2021	5 ml to 2000 ml	0.45 ml
30	MECHANICAL-VOLUME	Volumetric Glassware - One Mark Pipette	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg / 1 mg) With Grade III Water By Gravimetric Method as per ISO 4787:2021	0.5 ml to 100 ml	0.09 ml
31	MECHANICAL-VOLUME	Volumetric Glassware - Volumetric Flask	Using Electronic Weighing Balance (Readability: 0.01 mg / 0.1 mg / 1 mg / 10 mg) With Grade III Water By Gravimetric Method as per ISO 4787:2021	1 ml to 2000 ml	0.45 ml

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32	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	1 g	0.005 mg
33	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	1 mg	0.002 mg
34	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	10 g	0.012 mg

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35	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	10 mg	0.002 mg
36	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	100 g	0.084 mg
37	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	100 mg	0.004 mg

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38	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	2 g	0.005 mg
39	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	2 mg	0.002 mg
40	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	20 g	0.012 mg

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41	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	20 mg	0.002 mg
42	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	200 g	0.1 mg
43	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	200 mg	0.004 mg

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44	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	5 g	0.007 mg
45	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	5 mg	0.002 mg
46	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	50 g	0.016 mg

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47	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	50 mg	0.003 mg
48	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	500 mg	0.005 mg
49	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	1000 g	1.2 mg

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50	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 10 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	2000 g	8.18 mg
51	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	500 g	1 mg
52	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Standard Weights & Electronic Weighing Balance (Readability: 10 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	5000 g	11.1 mg

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53	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor With Indicator & Thermo Hygrometer	Using Temperature Humidity Chamber with Temperature & Humidity Meter by Comparison Method	15 °C to 50 °C @ 50 % rh	0.7 °C
54	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor With Indicator & Thermo Hygrometer	Using Temperature Humidity Chamber with Temperature & Humidity Meter by Comparison Method	30 % rh to 50 % rh @ 25 °C	1.20 % rh
55	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor With Indicator & Thermo Hygrometer	Using Temperature Humidity Chamber with Temperature & Humidity Meter by Comparison Method	50 % rh to 90 % rh @ 25 °C	1.25 % rh
56	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with High Precision Digital Thermometer, Liquid Block Calibrator by Comparison Method	100 °C to 250 °C	1.65 °C
57	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with High Precision Digital Thermometer, Liquid Block Calibrator by Comparison Method	30 °C to 100 °C	0.71 °C

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58	THERMAL-TEMPERATURE	Non - Contact Thermometer	Using Non - Contact IR Thermometer with Black Body Source (Emissivity: 0.95) by Comparison Method	0 °C to 25 °C	1.90 °C
59	THERMAL-TEMPERATURE	Non - Contact Thermometer	Using Non - Contact IR Thermometer with Black Body Source (Emissivity: 0.95) by Comparison Method	120 °C to 250 °C	5 °C
60	THERMAL-TEMPERATURE	Non - Contact Thermometer	Using Non - Contact IR Thermometer with Black Body Source (Emissivity: 0.95) by Comparison Method	25 °C to 120 °C	1.90 °C
61	THERMAL-TEMPERATURE	Non - Contact Thermometer	Using Non - Contact IR Thermometer with Black Body Source (Emissivity 0.95) by Comparison Method	250 °C to 500 °C	5 °C
62	THERMAL-TEMPERATURE	RTD With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	(-) 25 °C to 100 °C	0.98 °C

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63	THERMAL-TEMPERATURE	RTD With & Without Indicator	using RTD sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	100 °C to 300 °C	1.2 °C
64	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	(-) 25 °C to 100 °C	0.40 °C
65	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrators by Comparison Method	100 °C to 300 °C	1.82 °C
66	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using R Type Thermocouple with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	1200 °C to 1500 °C	3 °C

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67	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using R Type Thermocouple with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2.8 °C

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT100	Using Temperature Calibrator By Direct Method	(-) 200 °C to 800 °C	0.51 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 950 °C	1.3 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1200 °C	1.16 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1370 °C	1.50 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 1300 °C	1.50 °C

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017
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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-Type	Using Temperature Calibrator By Direct Method	100 °C to 1750 °C	2.02 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-Type	Using Temperature Calibrator By Direct Method	100 °C to 1750 °C	2 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-Type	Using Temperature Calibrator By Direct Method	(-) 200 °C to 400 °C	1 °C
9	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	1 hour to 5 hour	0.8 s to 5.13 s
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	1 s to 1 hour	0.18 s to 0.8 s
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method.	5 hour to 24 hour	5.13 s to 14.70 s

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12	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>10000 rpm to 14000 rpm	12.4 rpm
13	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>5000 rpm to 10000 rpm	7.3 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	>500 rpm to 5000 rpm	4.6 rpm
15	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Stirrer (Non contact type)	Using Digital Tachometer by Comparison Method	100 rpm to 500 rpm	2.2 rpm
16	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability 0.001 mg) class I and coarser	Using E1 Class Standard Weights as per OIML R 76-1	0 to 6 g	0.005 mg
17	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability 0.01 mg) class I and coarser	Using E1 Class Standard Weights as per OIML R 76-1	0 to 100 g	0.04 mg
18	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability 0.1 mg) class I and coarser	Using E1 Class Standard Weights as per OIML R 76-1	0 to 220 g	0.1 mg
19	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability 1 mg) class I and coarser	Using E1 Class Standard Weights as per OIML R 76-1	0 to 1000 g	1 mg

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20	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability 10 mg) class II and coarser	Using E1 Class Standard Weights as per OIML R 76-1	0 to 6200 g	13 mg
21	THERMAL-TEMPERATURE	RTD With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	(-) 25 °C to 100 °C	0.98 °C
22	THERMAL-TEMPERATURE	RTD With & Without Indicator	using RTD sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	100 °C to 300 °C	1.2 °C
23	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	(-) 25 °C to 100 °C	0.40 °C
24	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using RTD Sensor with High Precision Digital Thermometer, Dry Block Calibrators by Comparison Method	100 °C to 300 °C	1.82 °C

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25	THERMAL-TEMPERATURE	Thermocouple With & Without Indicator	Using R Type Thermocouple with High Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2.8 °C

*** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.**