

Laboratory

**Yenkay Instruments and Controls Pvt. Ltd., 128, Vinayak Society,
Sahakarnagar No. 1, Pune, Maharashtra**
**Location 1:- 128, Vinayak Society, Sahakarnagar No. 1, Pune,
Maharashtra**
**Location 2 :- Shop No. 38, Rajmata Industrial Premises, T-58, MIDC,
Bhosari, Pune, Maharashtra**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **CC-2721**

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Validity **28.05.2018 to 27.05.2020**

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
LOCATION : 1				
I.	SOURCE			
1.	DC Voltage ^{\$}	1 mV to 10 m V 10 m V to 1000 V	0.42 % to 0.04 % 0.04 % to 0.01 %	Using Fluke MFC 5502E By Direct Method
2.	DC Current ^{\$}	10 uA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 20 A 20 A to 1000 A	0.26 % to 0.02 % 0.01 % to 0.43 % 0.43 % to 0.07 % 0.07 % to 0.2 % 0.4 %	Using Fluke MFC 5502E By Direct Method Current Coil
3.	AC Voltage ^{\$}	50 Hz to 1kHz 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1000 V	2.6 % to 0.34 % 0.34 % to 0.05 % 0.05 % to 0.06 %	Using Fluke MFC 5502E By Direct Method
4.	AC Current ^{\$}	50 Hz to 1 kHz 30 uA to 1 mA 1mA to 1 A 1 A to 20A 50 Hz 20 A to 1000 A	0.52 % to 0.31 % 0.31% to 0.43 % 0.43 % 0.43 % to 0.8 %	Using Fluke MFC 5502E By Direct Method Using Current Coil

Pankaj Varshney
Convenor

Avijit Das
Program Manager

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	DC Resistance ^s	1 Ω to 100 Ω 100 Ω to 1MΩ 1 M Ω to 100 MΩ 100 M Ω to 1GΩ	0.74 % to 0.01 % 0.01 % to 0.02 % 0.02 % to 0.57 % 0.57 % to 1.71 %	Using Fluke MFC 5502E By Direct Method
6.	Capacitance ^s	10 nF to 100 μ F 100 μF to 1 mF	0.41 % 0.4 % to 1.4 %	Using Fluke MFC 5502E By Direct Method
7.	Frequency ^s	5 Hz to 1 MHz	0.12 % to 0.03 %	Using Fluke MFC 5502E By Direct Method
8.	Low Resistance [#] (4 Wire)	0.75 mΩ 1.25 mΩ 1.5 mΩ 2.5 mΩ 7.5 mΩ	1.13 %	Using DC Shunt By Direct Method
9.	Temperature Indicator/ Controller/ Recorder ^s RTD(Input) J Type Thermocouple K Type Thermocouple T Type Thermocouple N Type Thermocouple C Type Thermocouple E Type Thermocouple L Type Thermocouple U Type Thermocouple R Type Thermocouple	(-)200 °C to 800 °C (-)200 °C to 600 °C (-)200 °C to 1370 °C (-)200 °C to 400 °C (-)200 °C to 1300 °C (-)200 °C to 2316 °C (-)200 °C to 1000 °C (-)200 °C to 900 °C (-)200 °C to 600 °C (-)200 °C to 1767 °C	0.3 °C 0.3 °C 0.5 °C 0.3 °C 0.5 °C 0.6 °C 0.5 °C 0.5 °C 0.6 °C 0.7 °C	Using MFC 5502E By Direct Method

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	S Type Thermocouple B Type Thermocouple	(-)200 °C to 1767 °C 600 °C to 1800 °C	0.9 °C 0.5 °C	
10.	Inductance [#]	1 kHz 10 μ H to 1000 mH	1.3 %	Using Decade Box By Direct Method
11.	Capacitance [#]	1 kHz 1 nF to 100 μ F	1.2 %	Using Decade Box By Direct Method
12.	Resistance [#]	1 kHz 1 Ω to 100 k Ω	1.2 %	Using Decade Box By Direct Method
II.	MEASURE			
1.	DC Voltage ^{\$}	1 mV to 10 mV 10 mV to 10 V 10V to 1000 V	0.45 % to 0.05 % 0.05 % to 0.0043 % 0.0043 % to 0.01 %	Using 6½Digital Multimeter Fluke 8846A by Direct Method
2.	DC Current ^{\$}	100 μ A to 200 mA 200 mA to 10 A	0.09 % to 0.06 % 0.06 % to 0.02 %	Using 6½Digital Multimeter Fluke 8846A by Direct Method
3.	AC Voltage ^{\$}	50 Hz 2mV to 10 mV 10mV to 1V 1V to 1000V	2.31 % to 0.68 % 0.68 % to 0.1 % 0.1 % to 0.4 %	Using 6½ Digital Multimeter Fluke 8846A by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
4.	AC Current ^{\$}	50 Hz 100 uA to 200 mA 200 mA to 10 Amp	0.24 % to 0.87 % 0.87 % to 0.38 %	Using 6½ Digital Multimeter Fluke 8846A by Direct Method
5.	DC Resistance ^{\$}	1 Ω to 100 Ω 100 Ω to 100MΩ 100M Ω to 1G Ω	0.36 % to 0.02 % 0.02 % to 2.3 % 2.8 %	Using 6½ Digital Multimeter Fluke 8846A by Direct Method
6.	Capacitance ^{\$}	10 nF to 100 nF 100 nF to 1000 μF	5.59 % to 1.71 % 1.71 %	Using 6½ Digital Multimeter Fluke 8846A by Direct Method
7.	Frequency ^{\$}	5 Hz to 1 MHz	0.08 % to 0.54 %	Using 6½ Digital Multimeter Fluke 8846A by Direct Method
8.	DC High Voltage ^{\$} AC High Voltage ^{\$}	1 kV to 5 kV 1 kV to 10 kV	3.74% 4.23%	Using HV Probe (SEV EL.) by Direct Method
9.	Time ^{\$}	6 s to 7200 s	0.06 % to 0.76 %	Using Dig. Stop Watch by Comparison Method
10.	Temperature Indicator/ Controller/ Recorder ^{\$} RTD(Input)	(-)200 °C to 800 °C	1.27 °C	Using Handy Cal (CA 150). M.F.C. (FLUKE) 5502E

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
	J Type Thermocouple	(-)200 °C to 600 °C	0.3 °C	
	K Type Thermocouple	(-)200 °C to 1370 °C	0.5 °C	
	T Type Thermocouple	(-)200 °C to 400 °C	0.3 °C	
	N Type Thermocouple	(-)200 °C to 1300 °C	0.5 °C	
	C Type Thermocouple	(-)200 °C to 2316 °C	0.6 °C	
	E Type Thermocouple	(-)200 °C to 1000 °C	0.5 °C	
	L Type Thermocouple	(-)200 °C to 900 °C	0.5 °C	
	U Type Thermocouple	(-)200 °C to 600 °C	0.6 °C	
	R Type Thermocouple	(-)200 °C to 1767 °C	0.7 °C	
	S Type Thermocouple	(-)200 °C to 1767 °C	0.8 °C	
	B Type Thermocouple	600 °C to 1820 °C	0.5 °C	

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LOCATION: 2				
I.	SOURCE			
1.	DC Voltage [#]	1 mV to 3 mV 3 mV to 30 mV 30 mV to 1000 V	0.35 % to 0.23 % 0.23 % to 0.018 % 0.018 % to 0.009 %	Using Multi-product cal 5502A by Direct Method
2.	DC Current [#]	10 μ A to 100 μ A 100 μ A to 10 A 10 A to 20 A 20 A to 1000 A	0.26 % to 0.041 % 0.041 % to 0.05 % 0.05 % to 0.16 % 0.95 %	Using Multi-product cal 5502A by Direct Method Using Current Coil
3.	AC Voltage [#]	50 Hz to 1 kHz 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1000 V	2.37 % to 0.50 % 0.5 % to 0.07 % 0.07 % to 0.0513 %	Using Multi-product cal 5502A by Direct Method
4.	AC Current [#]	50 Hz to 1 kHz 30 μ A to 100 μ A 100 μ A to 10 A 10 A to 20 A 50 Hz 20 A to 1000 A	0.53 % to 0.25 % 0.25 % to 0.085 % 0.085 % to 0.202 % 0.78 %	Using Multi-product cal 5502A by Direct Method Using Current Coil
5.	DC Resistance [#] (2 wire)	1 Ω to 5 Ω 5 Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1000 M Ω	0.1 % to 0.017 % 0.017 % to 0.05 % 0.05 % to 0.5 % 0.5 % to 1.71 %	Using Multi-product cal 5502A by Direct Method

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6.	Capacitance [#] (DC)	1 nF to 10 nF 10 nF to 1 mF	1.35 % to 0.35 % 0.35 % to 1.28 %	Using Multi-product cal 5502A by Direct Method
7.	Frequency [#]	1 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 250 MHz	0.6 % to 0.02 % 0.02 % to 0.006 % 0.006 % to 0.003 %	Using Multi-product cal 5502A by Direct Method
8.	Temperature Indicator/ Controller/Recorder [#] RTD(Input) J Type Thermocouple K Type Thermocouple T Type Thermocouple N Type Thermocouple C Type Thermocouple E Type Thermocouple L Type Thermocouple U Type Thermocouple R Type Thermocouple S Type Thermocouple B Type Thermocouple	(-)200 °C to 800 °C (-)200 °C to 1200 °C (-)200 °C to 1370 °C (-)200 °C to 400 °C (-)200 °C to 1300 °C (-)200 °C to 1800 °C (-)200 °C to 1000 °C (-)200 °C to 900 °C (-)200 °C to 400 °C 0 °C to 1767 °C 0 °C to 1767 °C 600 °C to 1800 °C	0.4 °C 1 °C 1 °C 1 °C 1 °C 1 °C 1 °C 1 °C 1 °C 2.1 °C 2.1 °C 2.1 °C	Using Multi-product cal 5502A by Direct Method
9.	CT Test Set Up Ratio Error & Phase Angle ^{\$}	5 A/1A to 1200 A/1 A 5 A/5A to 1200 A/5 A	0.32 % 2.5 min	Using CT Set Up CT 5 -1200/1A 5-1200/5A By Comparison Method
10.	DC Power [#] 1 Phase	10 to 600 V 20 mA to 20 A 10 W to 12 kW	0.34 %	Using Multi-product cal 5502A By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	Oscilloscope [#]	Amplitude:- 2 mV/div to 20 V/Div Time:- 2 nS to 1 S/Div Bandwidth :- 10 MHz to 250 MHz	2.15 % 2.1 % 6.0 %	Using Multi-product cal 5502A by Direct Method
II.	MEASURE			
1.	DC Voltage [#]	1 mV to 10 mV 10 mV to 1000 V	0.406 % to 0.04 % 0.04 % to 0.008 %	Using 6½ Multimeter By Direct Method
2.	DC Current ^{\$}	10 u A to 100 uA 100 uA to 2 A 2 A to 10 A	0.128 % to 0.008 % 0.008 % to 0.01 % 0.01 % to 0.323 %	Using 7½ Multimeter 5½ Multimeter By Direct Method
	DC Current [*]	500 uA to 100 mA 100 mA to 10 A	1.0 % to 0.06 % 0.06 % to 0.323 %	Using 5½ Multimeter By Direct Method
3.	AC Voltage [#]	50 Hz 2 mV to 100 mV 100 mV to 750 V	2.36 % to 0.11 % 0.11 % to 0.103 %	Using 6½ Multimeter By Direct Method
4.	AC Current ^{\$}	50 Hz 30 uA to 100 mA 100 mA to 2 Amp 2 Amp to 10 Amp	0.51 % to 0.2 % 0.2 % to 0.25 % 0.25 % to 2.3 %	Using 7½ Multimeter 5½ Multimeter By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
	AC Current [*]	50 Hz 1 mA to 10 mA 10 mA to 10 A	1.8 % to 1.283 %	Using 5½ Multimeter By Direct Method
5.	DC Resistance [§]	1 Ω to 1 M Ω 1 M Ω to 10M Ω 10M Ω to 1G Ω	0.19 % to 0.007 % 0.007 % to 0.012 % 0.012 % to 2.5 %	Using 7½ Multimeter By Direct Method
	Resistance [*]	1 Ω to 10 Ω 10 Ω to 100M Ω	0.6 % to 0.1 % 0.1 % to 2.5 %	Using 5½ Multimeter By Direct Method
6.	Frequency [§]	1 Hz to 10 Hz 10 Hz to 15 MHz	2.41 % to 0.04 % 0.04 % to 0.06 %	Using 7½ Multimeter & CA 150 By Direct Method
	Frequency [*]	1 Hz to 10 Hz 10 Hz to 1 MHz	2.41 to 0.08 0.08 to 0.09	Using 5½ Multimeter & CA 150 By Direct Method
7.	Time [#]	6 s to 18000 s	0.4 Sec to 0.71 Sec	Using Timer by comparison method
8.	Temperature Indicator/ Controller/ Recorder [#] J Type Thermocouple K Type Thermocouple T Type Thermocouple N Type Thermocouple C Type Thermocouple E Type Thermocouple L Type Thermocouple U Type Thermocouple R Type Thermocouple	 (-)200 °C to 1200 °C (-)200 °C to 1370 °C (-)200 °C to 400 °C (-)200 °C to 1300 °C (-)200 °C to 1800 °C (-)200 °C to 1000 °C (-)200 °C to 900 °C (-)200 °C to 400 °C 0 °C to 1767 °C	 1.0 °C 1.0 °C 1.0 °C 1.0 °C 1.0 °C 1.0 °C 1.0 °C 1.0 °C 2.1 °C	Using Multi-product cal 5502A by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
	S Type Thermocouple B Type Thermocouple RTD	0 °C to 1767 °C 600 °C to 1800 °C (-)200 °C to 800 °C	2.1 °C 2.1 °C 0.4 °C	Using Dig. Calibrator
9.	DC High Voltage*	>1 kV DC to 60 kV DC 60kV DC to 75kV DC	3.86 % 4.849 %	Using 20 kV HV Probe 60kV & 100kV HV Divider (SEV Electrical) By Comparison Method
10.	AC High Voltage*	50 Hz >1 kV AC to 60 kV 60 kV AC to 90 kV AC	3.86 % 4.097 %	Using 20 kV HV Probe 60kV & 100kV HV Divider (SEV Electrical)
11.	Power/ Energy # @ 50Hz 1 Ø & 3 Ø (L-N) Active Reactive Apparent	Voltage : 30 V to 400 V, Direct Current : 40 mA to 100A PF : $\pm$ 0.5 to UPF 1.2 W to 120 kW 1.2 var 120 kvar 1.2 VA to 120 kVA	 0.12 % 0.12 % 0.12 %	Using AC Power Source PPS 3.3with Portable Ref. standard By Comparison Method

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	Energy	1 Wh to 24 kwh @ 400 V, 20 A PF $\pm$ 0.5 to UPF 1 Wh to 144 kwh @ 400V, 120 A, UPF	0.12 % 0.12 %	
12.	Power Factor [#]	$\pm$ 0.25 to UPF	0.006 PF	Using AC Power Source PPS 3.3 with Portable Ref. Standard By Direct Method

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Convenor

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<u>MECHANICAL CALIBRATION</u>				
LOCATION: 1				
I.	WEIGHTS			
1.	Mass / Weights Class M1 and Coarser ^s	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.10 mg 0.10 mg 0.10 mg 0.12 mg 0.12 mg 0.12 mg 0.12 mg 0.12 mg 0.12 mg 0.12 mg 0.16 mg 0.16 mg 0.16 mg 0.16 mg 0.20 mg 0.22 mg 0.37 mg	Using F1 Class Weights and Semi Micro Balance using Substitution Method as per OIML R 111

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II.	WEIGHING SCALE AND BALANCE			
1.	Electronic weighing balance (Class I and Coarser) [#] d=0.1 mg and Coarser	1 mg to 200 g	0.38 mg	Using Standard weights (F1 Class) as per OIML R-76-1
	Electronic weighing balance (Class II and coarser) [#] d = 100 mg and Coarser	< 200 g to 5 kg < 5 g to 10 kg	189 mg 453 mg	Using Standard Weights (F2 Class) as per OIML R-76-1
III.	VOLUME			
1.	Micro Pipettes ^{\$}	100 ul to 1000 ul	1.7 ul	Using Digital Balance up to 200 g readability 0.1 mg and distilled water of known density. as per IS 8655 -6 & ISO/TR 20461

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2.	Glass Pipettes (Graduated /non graduated) Glass Burette Measuring Cylinder / Volumetric Flask / Conical Flask Beaker ^s	1 ml to 50 ml 1 ml to 10 ml >10 ml to 100 ml	0.092 ml 0.012 ml 0.092 ml	Using Digital Balance up to 200 g readability 0.1 mg and distilled water of known density as per ISO 4787 & ISO /TR 20461
IV.	PRESSURE INDICATING DEVICES			
1.	Pressure Indicating Devices (Pneumatic) Dial Type Dig. Gauge Pressure Transmitter/ Indicator/ Recorder / Switch ^s	0 to 2.0 bar > 2 bar to 30 bar	0.006 bar 0.037 bar	Using Pressure Calibrator IS33(0-2.5 bar) Dig pressure Gauge Altop 0-30bar By Comparison Method DKD-R-6-1
2.	Pressure (Hydraulic) Dial/ Dig. Gauge Pressure Transmitter/ Indicator/ Recorder Switch/Transducer ^s	> 30 bar to 210 bar	0.165 bar	Using Pressure Calibrator IS33 (0-210 bar) By Comparison Method DKD-R-6-1
3.	Vacuum Gauge / Transmitter ^s	(-)0.8 bar to 0 bar	0.006 bar	Using Pressure Calibrator IS33 By Comparison Method DKD-R-6-2
4.	Absolute Pressure ^s	0.07 bar to 2 bar (a)	0.008 bar	Absolute Pressure Gauge Druck By Comparison Method DKD-R-6-1

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V.	ACOUSTICS			
1.	Acoustics Sound Level Meter ^{\$}	1 kHz 94 dB, 114 dB	0.7 dB	Using Sound level Calibrator By Comparison Method

Pankaj Varshney
Convenor

Avijit Das
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LOCATION : 2				
I.	PRESSURE INDICATING DEVICES			
1.	Pressure-Pneumatic Dial type , Digital Pressure Gauge, Digital Pressure Indicator, Pressure Transmitter, Pressure Recorder Pressure switch [#]	0 to 2 bar > 2 bar to 30 bar	0.006 bar 0.037 bar	Using Dig. Pressure Gauge Make : Vijay 0 to 2 bar Using Dig. Pressure Gauge 0 to 30 bar Make : Altop By comparison Method DKD-R-6-1
2.	Pressure -Hydraulic Dial type , Digital Pressure Gauge, Digital Pressure Indicator, Pressure Transmitter, Pressure Recorder Pressure switch [#]	> 30 bar to 350 bar >350 bar to 600 bar	0.233 bar 2.62 bar	Using Dig. Pressure Gauge Make: Crystal 0 to 350 bar Dig. Pressure Gauge Make : Vijay 0 to 700 bar By comparison Method DKD-R-6-1
3.	Vacuum Dial & Digital Vacuum gauge & Vacuums Transmitter [#]	(-)0.80 bar to 0 bar	0.007 bar	Using Dig. Pressure Gauge Make :Vijay -0.95 TO 0 bar By comparison Method DKD-R-6-2

Pankaj Varshney
Convenor

Avijit Das
Program Manager

Laboratory

Yenkay Instruments and Controls Pvt. Ltd., 128, Vinayak Society,
Sahakarnagar No. 1, Pune, Maharashtra
Location 1:- 128, Vinayak Society, Sahakarnagar No. 1, Pune,
Maharashtra
Location 2 :- Shop No. 38, Rajmata Industrial Premises, T-58, MIDC,
Bhosari, Pune, Maharashtra

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
II.	ACCELERATION & SPEED			
1.	RPM [#] Contact Type	60 rpm to 2500 rpm >2500 rpm to 5000 rpm	0.6 rpm 2.3 rpm	Using Dig tachometer And RPM SOURCE by comparison Method
	Non –contact type	18 rpm to 5000 rpm > 5000 rpm to 10000 rpm	1.1 rpm 2.4 rpm	

Pankaj Varshney
Convenor

Avijit Das
Program Manager

Laboratory

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
<u>THERMAL CALIBRATION</u>				
LOCATION: 2				
I.	TEMPERATURE			
1.	RTD Sensor & Thermocouple with or without Indicator, Dig. Thermometers, Dial Type Thermometers, Data Loggers with sensor, Temperature Transmitter with Indicator Indicator of Temperature Bath, Oven [#]	(-)25 °C to 140 °C 140 °C to 350 °C	0.6 °C	Using Dig. Calibrator RTD Sensor by Comparison Method
2.	Glass Thermometer [*]	(-)25 °C to 140 °C	0.7 °C	Using RTD Sensor & Dig. Calibrator by Comparison Method

Pankaj Varshney
Convenor

Avijit Das
Program Manager

Laboratory

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
3.	All Type Of Thermocouples , Dial Type Thermometers, Dig. Thermometers, Indicator With Sensor Thermistor Sensor With/Without Indicator, Data Loggers With Sensor, Recorders With Sensor, Temperature Switch, Temperature Transmitter ,Muffle Furnace [#]	350 °C to 1000 °C 1000 °C to 1200°C	2.1°C 2.9°C	Using Dig. Calibrator , R Type Thermocouple & Isotech Pegasus Basic Temp. Bath by Comparison Method
4.	Infrared/Pyrometers\$	0 °C to 140°C 140 °C to 1200°C	2.5°C 4.3°C	Using Isotech Pegasus Basic Temp. Bath & Black Body Source with IR Thermometer by Comparison Method
5.	Refrigerator\ Deep Freezers Auto Claves , Cold Chamber/ Environmental Chamber*	(-80 °C to 140 °C	1.7°C	Using Dig. Calibrator RTD Sensor Data Logger with Sensor By Spatial Mapping Method

Pankaj Varshney
Convenor

Avijit Das
Program Manager

Laboratory

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
II.	SPECIFIC HEAT & HUMIDITY			
1.	Temp. And Humidity Indicator With Sensor, Hygrometer, Humidity Sensor And Data Logger \$	15°C to 50°C @ 25°C 30 to 95 %RH	0.9°C 3.1%RH	Using Data Logger with Temp. & RH Sensor & Humidity Chamber by Comparison Method
2.	Thermal Chamber of Ovens, Furnace, Temperature Bath Heating Cycle, Incubator, Mapping, Temperature Bath & Any other equipments*	30 °C to 250 °C 250 °C to 1200 °C	4.67 °C	Using Dig. Calibrator RTD Sensor Data Logger with Sensor Thermocouple using multi location Spatial Mapping Method
3.	Humidity Chamber , Environmental Chamber, Climatic Chamber*	@ 25 °C (30 to 95) % RH	2.7 % RH	Using Data Logger with Temp. & RH Sensor By Spatial Mapping Method

* Measurement Capability is expressed as an uncertainty ($\pm$) at a confidence probability of 95%

\$ Only in Permanent Laboratory

*Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Pankaj Varshney
Convenor

Avijit Das
Program Manager