Laboratory	**Electronics Regional Test Laboratory (East), Block: DN, Sector-V, Salt Lake City, Kolkata, West Bengal**
Accreditation Standard	**ISO/IEC 17025: 2017**
Certificate Number	**CC-2008** **Page 1 of 18**
Validity	**21.01.2019 to 20.01.2021** **Last Amended on 01.02.2019**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		ELECTRO-TECHNICAL CALIBRATION		
I.	**MEASURE**			
		10 µV to 1 mV 1 mV to 10 V 10 V to 1000 V	2 % to 0.014 % 0.014 % to 0.0004 % 0.0004 % to 0.0005 %	Using DC Reference Standard 7004 , Null Detector , Kelvin Verley Divider, FLK Multimeter 8508A by Direct/ Comparison method
		>1 kV to 40 kV	2.5 %	Using 80K40 HV probe by Direct/Comparison method
2.	DC Current#	10 µA to 1 mA 1 mA to 20 A 20 A to 850 A	0.006 % to 0.002 % 0.002 % to 0.005 % 0.005 % to 0.05 %	Using Current Shunt & Standard Resistance, Agilent Current Source 875A& FLK DMM 8508A by Direct/Comparison Method
3.	DC Resistance#	0.0001 Ω to 0.001Ω 0.001 Ω to 1 MΩ 1 MΩ to 20 GΩ 20 GΩ to 1 TΩ	0.03 % to 0.004 % 0.004 % to 0.001 % 0.001 % to 0.20 % 0.2 % to 2.5 %	Using DMM FLK8508A, Standard Resistance Set, High Resistance Meter Agilent 4339 by Direct/Comparison Method
4.	Inductance#	**1 kHz** 100 µH to 10 H	0.2 % to 0.06 %	Using Digibridge 1689, Quadtech, USA STD "L",GR1482 Series by Direct/Comparison Method

Vishal Shukla
Convenor

Battal Singh
Program Manager

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Capacitance#	**1 kHz** 1 pF to 1.0 mF 1.0 mF to 10 mF	 0.04 % to 1.2% 1.2% to 0.3 %	Using Capacitance Measuring Assembly GR 1620 AP, Digibridge 1689, Quadtech USA Direct/Comparison
6.	Frequency#	10 Hz to 100 kHz 100 kHz to 6 GHz	5×10^{-4}-5×10^{-6} 5×10^{-8}	Using frequency Counter Pendulum CNT90 by Direct / Comparison Method
		10 Hz to 40 Hz 1 mV to 1000 V **40 Hz to 10 kHz** 1mV to 1000 V **10 kHz to 100 kHz** 1 mV to 1V 1V to 100 V **100 kHz to 1 MHz** 1 mV to 1 V	 0.5 % to 0.025 % 0.5 % to 0.012 % 0.43 % to 0.014 % 0.014 % to 0.016 % 1.34 % to 0.1 %	Using IVD, FLK 8508A, TVC HOLT, AC Meas Std FLK5790A By Direct/ Comparison Method
		50 Hz >1 kV to 28 kV	 6 %	Using DMM & 80K40 HV Probe By Direct/ Comparison Method
		10 Hz to 5 kHz 10 µA to 1 A 1 A to 20 A	 0.05 % to 0.016 % 0.016 % to 0.035 %	Using DMM 8508A, AC/DC Standard Resistance, Fluke 5790A Zera COM 3003 by Direct/Comparison Method
		50 Hz 0.01A to 120 A	 0.013 %	Using ZERA COM-3003by Direct Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
9.	Time Interval/ Time Period#	20 nsec to 2000 sec	0.0002 %	Using Freq. Counter Pendulam CNT-90 by Direct/Comparison Method
10.	High Frequency AC Voltage#	**1 MHz to 100 MHz** 10 mV to 10 V **100 MHz to 1 GHz** 10 mV to 7 V	3.3 % 3.5 %	Using URV-5 R&S by Direct/Comparison Method
11.	AC Power & Energy 1φ & 3φ (50Hz) (Active and Reactive)#	10 mA to 120 A 60 V to 240 V UPF – 0.5 PF (lead & Lag) (0.03 W to 86.4 kW)\ (0.03 VAR to 86.4 kVAR)	0.023 % to 0.012 %	Using Three Phase Comparator, Make: Zera, Model: COM 3003 By Direct / Comparison Method
12.	Power Factor/ Phase Angle# (50 Hz) At 240 V, 5 A	**+/- 0.1 – 1.0 (lag & lead)** 0˚to 180˚ (Lead & Lag)	0.01 %	Using Three Phase Comparator, Make: Zera, Model: COM 3003 by Direct/comparison Method
13.	AC Resistance#	**1 kHz** 1 Ω to 100 kΩ	0.3 % to 0.1%	Using Digibridge 1689, Quadtech, USA By Direct/ Comparison Method
14.	RF Power#	**50 MHz to 2 GHz** 1 nW to 1 mW 1 mW to 40 mW **50 MHz to 1 GHz** 40 mW to 90 W	 6 % 4 % 4 %	Using RF mV Meter – URV-5, R&S Power Sensors, RF Attenuator , RF Amplifier By Direct/ Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
15.	Attenuation[#] 10 MHz to 1 GHz	**50 MHz to 1 GHz** 1 dB to 10 dB 10 dB to 60 dB	 0.15 dB 0.17 dB	Using RF Level Meter, URV-5,R & S (for Variable Attenuator Calibration, 1dB – 60dB) by Direct/Comparison Method
16.	VSWR[#]	1.05 to 3 (50 MHz to 2 GHz)	0.15 to 0.3 in VSWR	Using SWR Bridge R & S, ZRB2 , RF Level Meter, URV-5, By Return Loss Method
II.	**SOURCE**			
1.	DC Voltage[#]	10 µV to 10 V 10 V to 1000 V	2 % to 0.0003 % 0.0003 % to 0.0004 %	Using Wavetek 4808, DMM-FLK 8508A, DC Voltage Ref STD 7004N, FLK DC Cal System-Null Detector FLK 845AR, Kelvin Verley Divider FLK 720A By Direct / Comparison Method
2.	DC Current[#]	10 µA to 1 A 1 A to 20 A 20 A to 850 A 20 A to 1000 A	0.01 % to 0.005 % 0.005 % to 0.009 % 0.009 % to 0.06 % 0.53 %	Using FLK 5520A, 5080A, Wavetek 4808, STD"R", DMM-FLK8508A, Agilent 6680A, STD Shunt, By Direct / Comparison Method Using Calibrator With Current Coil By Direct Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	DC Resistance#	0.0001 Ω to 100 kΩ 100 kΩ to 10 MΩ 10 MΩ to 1 TΩ	0.04 % to 0.001 % 0.001 % to 0.003 % 0.003 % to 2 %	Using STD "R", L&N, Tinsley DMM FLK 8508A, Agilent High Resistance Meter By Direct / Comparison Method
4.	Inductance#	**1 kHz** 100 µH to 100 mH 100 mH to 10 H	 0.1 % to 0.03 % 0.03 % to 0.09 %	Using STD "L", GR 1482 Series By Direct / Comparison Method
5.	Capacitance#	**1 kHz** 10 pF to 1000 pF 1000 pF to 1 mF 1.0 mF to 10 mF **1 kHz to 1 MHz** 1 pF to 1000 pF	 0.003 % to 0.015 % 0.015 % to 0.05 % 0.05 % to 0.38 % 0.12 % to 0.3 %	Using STD "C", GR 1404 Series & 1409 Series By Direct / Comparison Method Using HP 16380A Series By Direct /Comparison Method
6.	Frequency#	10 Hz to 100 kHz 100 kHz to 6 GHz	5×10^{-4} -5×10^{-6} 5×10^{-8}	Using Pendulam CNT-90, Func Gen Agilent 33250A, Signal Generator, Keysight, E8257D by Direct / Comparison Method
7.	AC Voltage#	**10 Hz to 45 Hz** 1 mV to 1000 V **45 Hz to 10 kHz** 1 mV to 100 V 100 V to 1000 V	 0.7 % to 0.025 % 0.4 % to 0.008 % 0.008 % to 0.02 %	Using Calibrator Wavetek4808 & IVD FLK 5790A HOLT TVC by Direct/Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		10 kHz to 50 kHz 1mV to 1 V 1V to 100 V **50 kHz to 1 MHz** 1 mV to 100 mV 100 mV to 10 V	 0.2 % to 0.014 % 0.014 % to 0.02 % 0.05 % to 1.2 % 0.25 % to 0.12 %	
8.	Time Interval/ Time Period#	20 nsec to 2000 sec	0.0002 %	Using Agilent Func. Gen. Freq. Counter Pendulam CNT-90 by Direct / Comparison Method
9.	High Frequency AC Voltage#	**1 MHz to 1 GHz** 10 mV to 7 V	 3.5 %	Using Calibrator Wavetek 4808, RF Voltmeter with Insertion Unit, Signal Generator & RF Amplr., AR100W 1000MHz, RF Attenuator by Direct / Comparison Method
10.	AC Current#	**10 Hz to 5 KHz** 10 µA to 1 A 1 A to 20 A **50 Hz** 10 mA to 100 A **50 Hz** 20 A to1000 A	 0.08 % to 0.05 % 0.05 % to 0.035 % 0.013 % 0.55 %	Using Calibrator FLK-5520A,5080A, Wavetek 4808, 8508A, FLK 5790 & Shunt by Direct/ Comparison Method Using Zera COM3003 by Direct Method Using Calibrator and Current Coil By Direct Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	AC Resistance#	**1 kHz** 1 Ω to 10 kΩ	0.007 %	Using Tinsley 5685A & 5685B by Direct / Comparison Method
12.	RF Power# .	**30 MHz to 2 GHz** 1 nW to 1 mW 1 mW to 40 mW **50 MHz to 1 GHz** **4**0 mW to 90 W	 6 % 4 % 4 %	Using RF mV Meter R & S, RF Attenuator, Amplifier Research RF Amplifier 100W1000B & Signal Gen by Direct / Comparison Method
13.	Attenuation#	**50 MHz to 1 GHz** 1 dB to 10 dB 10 dB to 60 dB	 0.2 dB 0.2 dB	Using R & S RF Milli Voltmeter URV-5 ,Level Meter with Sensor, HP Power Meter, RF Step Attenuator, RSP By Power Ratio Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		MECHANICAL CALIBRATION		
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Gauge Block [$]	Up to 10 mm 10 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm	0.25 µm 0.30 µm 0.45 µm 0.60 µm	Using Gauge Block Calibration Tester & Gauge Block Set K Grade By comparison Method (IS 2984)
2.	Vernier Caliper [$] (Dial/Digital/Analog) L.C.: 0.01 mm L.C.: 0.01 mm	 0 to 300 mm 300 mm to 1000 mm	 13.5 µm 25.0 µm	Using Gauge Block Set/Accessory Set By Comparison Method (IS 3651)
3.	External Micrometer [$] L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.001 mm L.C.: 0.001 mm	 0 to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm 100 mm to 150 mm 150 mm to 300 mm 300 mm to 400 mm	 1.8 µm 2.0 µm 2.5 µm 2.8 µm 3.0 µm 5.0 µm 6.0 µm	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method (IS 2967)
4.	Internal Micrometer [$] L.C.: 0.001 mm	 50 mm to 500 mm	 6.1 µm	Using Gauge Block Set/ Gauge Block Accessories, Long Gauge Block Set By Comparison Method (IS 2967)
5.	Micrometer Setting Standard /Length Bar [$]	25 mm to 600 mm	8.0 µm	Using Long Gauge Block Set/Electronic Probe with DRO By Comparison Method (IS 2967)

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Height Gauge (Dial/Digital/Analog[$] L.C.: 0.01 mm	0 to 1000 mm	15.0 µm	Using Long Gauge Block Set/Surface Plate By comparison method (IS 2921)
7.	Depth Micrometer[$] L.C.: 0.01 mm	0 to 300 mm	10 µm	Using Gauge Block Set/ Surface Plate By Comparison Method
8.	Wire Gauge[$]	Up to 10 mm	6.0 µm	Using Profile Projector By comparison method
9.	Plain Plug Gauge[$]	Up to 100 mm	3.0 µm	Using Gauge Block Set/ Electronic Comparator By comparison method (IS 3455)
10.	Plunger Dial [$] L.C.: 0.01 mm	0 to 25 mm	8.3 µm	Using Dial Calibration Tester By comparison method (IS 2092)
11.	Lever Dial [$] L.C.: 0.01 mm	0 to 2 mm	3 µm	Using Dial Calibration Tester By comparison method (IS 11498)
12.	Feeler Gauge[$]	0 to 1 mm	2.8 µm	Using Electronic comparator with stand By comparison method (IS 3179)
13.	Test Sieves[$]	0.032 mm to 0.075 mm 0.075 mm to 25 mm	2 µm 6 µm	Using Profile Projector By comparison method (IS 460)

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
14.	Radius Gauge Set[$]	R.4 – R25 mm	6 µm	Using Profile Projector By comparison method (IS 5273)
15.	Measuring Scale[$] L.C.: 1 mm	0 to 2000 mm	220√L µm L in m	Using Scale & Tape Calibrator By comparison method (IS 1481)
16.	Measuring Tape[$] L.C.: 1 mm	0 to 10 m	220√L µm L in m	Using Scale & Tape Calibrator By comparison method (IS 1269)
17.	PI Tape[$]	0 to 1200 mm	220√L µm L in m	Using Scale & Tape Calibrator By comparison method (IS 1269)
18.	Sine Bar[$]	Up to 500 mm	3.0 arc sec	Using Gauge Block Set/Angle Gauge, Dial Gauge By Comparison Method
19.	Profile Projector[$] L.C.: 0.001 mm L.C.: 1’	Linear 0 to 100 mm 0 to 360°	6.6 µm 54 sec	Using Gauge Block Set/Angle Gauge By Comparison Method (JIS B 7184)
20.	Bore Gauge[$] L.C.: 0.01 mm	0 to 2 mm	6.3 µm	Using Dial Calibration Tester By Comparison Method
21.	Dial Thickness Gauge [$] L.C.: 0.01 mm	0 to 10 mm	6 µm	Using Gauge Block Set By comparison method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
22.	Bevel Protractor[$] L.C.: 5 min	0 to 360 °	1 min	Using Angle Gauge Set By comparison method (IS 4239)
23.	Spirit Level [$] Sensitivity 0.01 mm/m	0±0.100 mm	5.0 µm/m	Using Sine Bar & Gauge Block Set With fixture By comparison method
24.	Surface Plate[♣]	1000 mm X 1000 mm	1.0*√(L + W)/150 L & W in mm	Using Electronic Level By comparison method (IS 7327)
II.	**PRESSURE INDICATING DEVICES**			
1.	Pressure (Hydraulic) Calibration of Precision Pressure Gauges, Pressure Transmitters[#]	0 to 700 bar	0.16 bar	Using Digital Pressure Calibrator as per DKD R-6-1
2.	Pressure (Pneumatic) Calibration of Precision Calibrator [$]	0.2 bar to 10 bar	0.003 bar	Using Low Pressure Dead Weight Tester & Digital Pressure Calibrator as per DKD R-6-1
3.	Precision Gauges, Precision Transmitter [#]	0 to 20 bar	0.013 bar	Using Digital Pressure Calibrator as per DKD R-6-1
4.	Pressure (Absolute) (Calibration of Absolute Gauges, Barometer, Absolute Pressure Transmitters [$]	30 to 1000 mbar (a) 1000 to 2600 mbar (a)	0.07 % of reading 0.05 % of reading	Using Digital Pressure Calibrator as per DKD R-6-1

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Pressure (Vacuum) Calibration of Pressure Gauges , Pressure Transmitter #	0 mbar g to (-)980 mbar(g)	0.0007 bar	Using Low pressure Dead Weight Tester & Digital Pressure Calibrator as per DKD R-6-1
6.	Torque Wrench/ Screw Drivers (Type 1, Class A, B,C,D,E) (Type II, Class A,B,D,E) #	0 to 10 Nm 11 Nm to 100 Nm	1.75 % of reading 1.70 % of reading	Using Torque Tranducer & Digital Indicator As per IS/ISO 6789
7.	Torque Wrench/ Screw Drivers (Type 1, Class A, B,C,D,E) (Type II, Class A,B,D,E) $	101 Nm to 1000 Nm	0.85 % of reading	Using Torque Tranducer & Digital Indicator As per IS/ISO 6789
III.	**WEIGHTS**			
1.	Calibration of Weights$	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	0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.03 mg 0.04 mg 0.04 mg 0.05 mg 0.06 mg	Using Weights of Accuracy Class E2 and Electronic Balance with readability d=0.01 mg d=1 mg d=10 mg d=100 mg As per OIML R-14-1 (2004) Calibration of Weights of Class F1 and coarser

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg	0.06 mg 0.06 mg 0.12 mg 1.0 mg 1.0 mg 5.8 mg 58.0 mg 58.0 mg	
2.	Calibration of Balances ♣	0 to 210 g, Readability 0.01 mg & 0.1 mg 0 to 1000g , Readability 1 mg 0 to 4.0 kg Readability 10 mg 0 to 12 kg Readability 100 mg	0.1 mg 1.5 mg 7.0 mg 66.52 mg	Using Standards Weights of Class E2 as per OIML & R -76 (2006) Calibration of Balances Class II and Coarser
IV.	**VOLUME**			
1.	Volume$ i) Micro-pipette ii) Pipette/Burette iii) Measuring Cylinder & Flask	 10 µl to 1000 µl 1 ml to 50 ml 0.1 ml to 25 ml 0.1 ml to 100 ml 0.1 ml to 1000 ml	 1.66 µl 10.0 µl 0.01 ml 0.02 ml 0.03 ml	Using Standard Weights of Class E2, Precision Balance (d=0.01/1.0 mg) & Distilled water of known density as per ISO 8655-6 & ISO 4787
2.	Density of Liquids Calibration of Hydrometers$	0.6000 g/ml to 1.2000 g/ml	0.0008 g/ml	Using Liquid with Different Densities & Standard Hydrometer As per IS 3104
3.	Viscosity Viscometer Constant$	0.0008 cSt/s to 0.5 cSt/s >0.5 cSt/s to 20 cSt/s	0.23 % 0.50 %	Using Certified Viscosity Ref. Standard & Temp. Bath As per ASTM 445, 446 & ISO 3105

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
V.	**ACCELERATION AND SPEED**			
1.	Rotational Speed Calibration of Tachometer (Contact Type)$	100 rpm to 6000 rpm	0.26% of reading	Using Precision Tachometer & Using RPM Generator By Comparison method
2.	Rotational Speed Calibration of Centrifuge, Rotameter♣	100 rpm to 6000 rpm	0.33% of reading	Using Precision Tachometer by Comparison method
VI.	**ACOUSTICS**			
1.	Sound Pressure Level (Sound Level Calibrator and Sound Level Meter) $	**1 kHz** 94 & 114 dB(A) **1 kHz** 94 &114 dB(A)	 0.34 dB 0.34 dB	Using Precision Integrating Sound Level Meter, 2230 of B & K Using Sound Level Calibrator 4231 of B & K
2.	Sound Pressure Level (Sound Level Calibrator and Sound Level Meter) ♣	**1 kHz** 94 & 114 dB(A) **1 kHz** 94 &114 dB(A)	 0.34 dB 0.34 dB	Using Precision Integrating Sound Level Meter, 2230 of B &K Using Sound Level Calibrator 4231 of B & K

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		OPTICAL CALIBRATION		
1.	Optical Wavelength #	400 nm to 1750 nm	0.9 nm	Using Optical Spectrum Analyzer by Direct Method
2.	Optical Length#	0 to 50 Km	0.003% of Rdg.	Using Fibre Spool by Direct Method
3.	Optical Power#	10 dBm to (-) 60 dBm	0.32 dB	Using Optical Source, Optical Attenuator and Lightwave Multimeter with Sensor by Comparison Method
4.	Optical Attenuation#	0 dB to 60 dB	0.30 dB	Using Optical Source, Lightwave Multimeter with Sensor by Direct Method
5.	Illuminance#	10 lux to 10000 Lux	At 10 lux:1 lux At 10000 lux:300 lux	Using TH Lamp with Photometer by Comparison Method
6.	X, Y Colour Coordinate#	x : 0 to 1 y : 0 to 1	0.005 0.005	Using Chroma Meter, Standard CFL & LED by Direct Method
7.	Colour Temperature#	Up to 10,000 K	At 1000K:23 K At 10000K:150 K	Using Colorimeter & Standard Lamp by Direct Method and Using x, y Colour Coordinate by Indirect Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	Luminous Flux (Lumen) $	Up to 1500 lm	3.5% of Rdg.	Using Lumen Meter with Integrating Sphere, Standard CFL & LED by Direct Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		THERMAL CALIBRATION		
I.	**TEMPERATURE**			
1.	Temperature (Glass Thermometer, Indicator, Temp. Gauge, T/C & RTD, Digital Temp. Meter, Dry & Wet Bulb Thermometer, Dry Well, Sensors & Controller)$	(-) 80 °C to 250 °C 250 °C to 550 °C 550 °C to 1200 °C 1200 °C to 1300 °C	0.08 °C 0.12 °C 2.0 °C 3.0 °C	Using Liquid Baths, Dry Block Calibrator, SPRT, Std. PRT, Digital Indicator (Black Stack), Tube Furnace, Std. 'R' Type T/C by Comparison Method
2.	Non -Contact Temperature (IR Thermometer, Optical Pyrometer, Radiation Thermometer)$	600 °C to 1300 °C	3.7 °C	Using Black Body Radiation Source, IR Thermometer, Std. R Type T/C with Meter By Comparison Method
3.	Temperature (PRT, T/C, Indicator Temp. Gauge, Sensor & Calibrator) (Bath, Oven, Chamber Incubator (for Non-Medical Applications), Autoclave (for Non-Medical Applications) (Refrigerator & Cold Chamber) (Dry Well Calibrator Hot Chamber, Furnace)♣	50 °C to 1200 °C (-) 50 °C to 300 °C (-) 80 °C to 50 °C 300 °C to 1300 °C	2.0 °C 1.0 °C 1.0 °C 3.0 °C	Using PRT, Dry Block Calibrator, T/C Type 'K' & 'R' By Comparison Method Using RTD & Data Logger Using RTD & Data Logger Using 'R' Type T/C & Four Channel Thermometer

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**SPECIFIC HEAT & HUMIDITY**			
1.	Relative Humidity (%RH) (Environmental & Humidity Chamber) ♣	35 % to 95 % RH 25 °C to 50 °C	2.5 % RH 1.0 °C	Using RTD, Data Logger & Humidity Indicator By Comparison Method
2.	Relative Humidity (% RH) (RH Sensor, RH Meter, RH Indicator, Digital Hygrometer) $	35 % to 95 % RH 25 °C to 50 °C	2.5 % RH 1 °C	Using Standard RH Meter Humidity Source (Chamber) RTD & Data Logger By Comparison Method

*** Measurement Capability is expressed as an uncertainty (±) 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.