Laboratory	Premier Instruments, 219, Acharya Commercial Center, Dr. C.G. Road, Chembur East, Mumbai, Maharashtra			
Accreditation Standard	ISO/IEC 17025: 2005			
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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks			
	ELECTRO-TECHNICAL CALIBRATION						
 .	SOURCE						
	<i>#</i>						
1.	DC Voltage [*]	0.1mV to 1mV 1mV to 200mV 200mV to 10V 10V to 1000V	0.0013mV 0.0013mV to 0.011mV 0.011mV to 0.0006V 0.0006V to 0.03V	Using Eurotron & Meco Calibrator By Direct Method			
2.	AC Voltage [#]	50 Hz 1mV to 10mV 10mV to 200mV 200mV to 750V	0.09mV 0.09mV to 0.3mV 0.3mV to 0.14V	Using Meco Calibrator By Direct Method			
3.	DC Current [#]	0.1mA to 20mA 20mA to 2A 2A to 10A	0.00013mA to 0.016mA 0.016mA to 0.0016A 0.0016A to 0.01A	Using Meco Calibrator By Direct Method			
		10A to 1000A	0.09A to 8A	Using Meco Calibrator with Current Coil By Direct Method			
4.	AC Current [#]	50 Hz 0.1A to 2A 2A to 10A	0.0008A to 0.0007A 0.0007A to 0.013A	Using Meco Calibrator By Direct Method			
		10A to 1000A	0.078A to 7.8A	Using Meco Calibrator with Current Coil By Direct Method			
5.	DC Resistance [#]	1Ω to 100Ω 100Ω to 500Ω 500Ω to 5KΩ	0.016Ω to 0.023Ω 0.023Ω to 0.042Ω 0.042Ω to 0.14Ω	Using Eurotron Calibrator By Direct Method			

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Temperature Recorder Simulation Method [#]	s/Controllers/Indicators		
	RTD(Pt-100 type)	(-) 200°C to 800°C	0.12°C	Using Eurotron Calibrator by direct Method
	Thermocouples			
	K Type J Type N Type R Type S Type T Type E Type	0°C to 1200°C 0°C to 800°C 0°C to 1300°C 0°C to 1750°C 0°C to 1750°C (-) 200°C to 400°C (-) 200°C to 900°C	0.20°C 0.25°C 0.25°C 0.32°C 0.32°C 0.17°C 0.25°C	Using Eurotron Calibrator by direct method
	втуре	600°C to 1800°C	0.50°C	
11.	MEASURE			
1.	DC Voltage [®]	0.1 mV to 1 mV 1 mV to 100 mV 100 mV to 1000 V	0.0005 mV 0.0005 mV to 0.002 mV 0.002 mV to 0.065 V	Using 8½ Key Seight DMM By Direct Method Using 6½ Agilent DMM By Direct Method
2.	DC Voltage*	0.1mV to 1mV 1mV to 100mV 100mV to 1000V	0.0041mV 0.0041mV to 0.01mV 0.01mV to 0.065V	Using 6 ½ Agilent DMM By Direct Method
3.	AC Voltage [#]	50 Hz 1mV to 100mV 100mV to 750V	0.047mV to 0.12mV 0.12mV to 0.8V	Using 6 ½ Agilent DMM By Direct Method
4.	DC Current [#]	0.1mA to 20mA 20mA to 2A	0.0083mA to 0.02mA 0.02mA to 0.0034A	Using 6 ½ Agilent DMM By direct method
		2A to 10A	0.0034A to 0.034A	Using 6½ Picotest DMM by Direct method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	AC Current *	50 Hz 0.1A to 2A 2A to 10A	0.0007A to 0.006A 0.006A to 0.103A	Using 6 ½ Agilent DMM By Direct Method Using 6 ½ Picotest DMM By Direct Method
6.	DC Resistance [#]	1Ω to 100Ω 100Ω to 500Ω 500Ω to 5ΚΩ	0.005Ω to 0.016Ω 0.016Ω to 0.06Ω 0.06Ω to 0.0012KΩ	Using 6 ½ Agilent DMM By Direct Method
7.	Temperature Simulation	٦ [#]		
	RTD (Pt-100 Type) K Type J Type R Type S Type N Type N Type	(-) 200°C to 800°C 0°C to 1200°C 0°C to 800°C 0°C to 1750°C 0°C to 1750°C 0°C to 1300°C	0.16°C 0.2°C 0.25°C 0.32°C 0.32°C 0.25°C	Using Eurotron Calibrator & 6 ½ Picotest DMM By Direct method
8.	Time Interval [#]	1 Sec to 60 Sec 60 Sec to 3600 Sec 3600 Sec to 86400 Sec	0.11Sec to 0.16 Sec 0.16 Sec to 3.5 Sec 3.5 Sec to 49.1 Sec	Using Time Totaliser By Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks				
	MECHANICAL CALIBRATION							
Ι.	DIMENSION (BASIC N	IEASURING INSTRUMEN	Γ, GAUGE ETC.)					
1.	Pressure – Pneumatic [#] (Pressure Gauge, Pressure Indicator / Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	0 to 25 bar	0.06 bar	Using Pressure Comparator And Pressure Gauge By Comparison Method				
2.	Pressure-Hydraulic [#] (Pressure Gauge, Pressure Indicator / Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	0 to 25 bar 0 to 70 bar 0 to 700 bar	0.06 bar 0.06 bar 0.15 bar	Using Pressure Comparator And Pressure Gauge by Comparison method				
3.	Vacuum-Pneumatic [#] (Vacuum Gauge, Vacuum Indicator, Vacuum Calibrator, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch, Vacuum Recorder)	(-) 0.8 bar to 0 bar	0.06 bar	Using Vacuum Comparator By Comparison Method				

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks				
	THERMAL CALIBRATION							
I.	TEMPERATURE							
1.	RTD Sensor and Thermocouple sensors with and without Temperature Indicator. Digital	(-) 15°C to 50°C 50°C to 300°C	0.59°C 0.83°C	Using RTD Sensor and 6 ½ Agilent DMM with Dry Block Furnace By Comparison Method				
	Thermometer, Temperature Gauges, Temperature Sensor with Transmitters [#]	300°C to 800°C 800°C to 1000°C 1000°C to 1200°C	1.8°C 2.3°C 2.5°C	Using R & S Type Sensor and 6 ½ Agilent DMM with Dry Block Furnace By Comparison Method				
2.	Temperature Indicators with Sensor of Dry Block Chamber, Oven and Furnaces [#]	(-) 15°C to 50°C 50°C to 300°C	0.6°C 0.9°C	Using RTD Sensor and 6 ½ Agilent DMM with Dry Block Furnace (Single Position)				
		300°C to 800°C 800°C to 1000°C 1000°C to 1200°C	1.9°C 2.5°C 2.5°C	Using R & S Type Sensor and 6 ½ Agilent DMM with Dry Block Furnace (Single Position)				

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	Calibration of Oven , Climate Chambers and Furnaces [*]	(-) 15°C to 50°C 50°C to 300°C 300°C to 800°C 800°C to 1000°C 1000°C to 1200°C	0.93°C 1.28°C 2.59°C 3.14°C 3.98°C	Using RTD, K & N Type Sensor With Data Logger (Multi Position Calibration)

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

* Measurement Capability is expressed to an allocation of a second secon prevailing actual environmental conditions and master equipment used.