Laboratory		Galaxy Test & Calibration Lab, B-107 & 108, 1 st Floor, Ganpati Plaza Bhiwadi, Distt. Alwar, Rajasthan				
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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks		
		ELECTRO-TECHNI	CAL CALIBRATION			
I.	SOURCE					
1.	DC Voltage ^{\$}	1mV to10 mV 10 mV to 30 mV 30 mV to 30 V 30 V to1000 V	0.75% to 0.08% 0.08% to 0.03% 0.03% to 0.01% 0.01% to 0.013%	Using Fluke 9100 MF Calibrator		
2.	DC Current ^{\$}	1 μA to 10 μA 10 μA to 30 μA 30 μA to 300 mA 300 mA to 20 A	1.41% to 0.15% 0.15% to 0.06% 0.06% to 0.03% 0.03% to 0.10%	Using Fluke 9100 MF Calibrator		
3.	AC Voltage ^s	50 Hz to 1 kHz 10 mV to 30 mV 50 Hz 30 mV to 30 V 30 V to 1000 V	4.48% to 0.12% 0.12% to 0.06% 0.06% to 0.08%	Using Fluke 9100 MF Calibrator		
4.	AC Current [®]	50 Hz to 1 kHz 100 μA to 300 mA 50 Hz 300 mA to 20 A 20 A to 1000 A	0.43% to0.2% 0.2% to 0.5% 0.29% to 0.73%	Using Fluke 9100 MF Calibrator With 10 Turn & 50 Turn Current Coil		

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5	Resistance ^{\$} (4 Wire)	0.001 Ω 0.01 Ω 0.1 Ω 1.0 Ω	0.24% 0.24% 0.24% 0.24%	Using Standard Resistance Box (Fixed Value)
6.	Resistance ^ᢌ (2 Wire)	2 MΩ 20 MΩ 200 MΩ 2 GΩ 20 GΩ 1 Ω to 10 Ω 10 Ω to 40 Ω 40 Ω to 400 kΩ 400 kΩ to 400 MΩ	1.26% 1.39% 2.59% 3.01% 6.29% 2.371% to 0.286% 0.3% to 0.12% 0.12 % to 0.024% 0.024 % to 0.36% 0.36% to 0.36%	U sing Standard Resistance Box (Fixed Value) Using Fluke 9100 MF Calibrator
7.	Frequency [®] (2 Wire)	1 Hz to 1 MHz 10 MHz	0.60% to 0.0646% 0.0058%	Using Fluke 9100 MF Calibrator
8.	Capacitance [®]	1 nF to 4 μF 4 μF to 10 mF	4.17%to 2.018% 4.0% to 1.15%	Using Fluke 9100 MF Calibrator
9.	AC Power ^{\$} Frequency 45 - 65 Hz Cos Ø:1 40 V To 600 Volt (100 mA to 20 A) 4 W to 1000 W 1 kW to 12 kW	4 W to 12 kW	2.0%	Using Fluke 5080 MF Calibrator

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
10.	DC Power ^{\$} Cos Ø:1 40 V to 600 Volt (100 mA to 20 A) 4 W to 1000 W 1 kW to 12 kW	4 W to 12 KW	0.9%	Using Fluke 5080 MF Calibrator By Direct Method
11.	Power Factor ^{\$} Frequency 50 Hz	0.1 to 1 (Lag/Lead)	1.9 %	Using Fluke 5080 MF Calibrator By Direct Method
12.	Temperature Simulation Temperature Indicator/Controller/ Recorder ^{\$} RTD Type "J" Type Thermocouple "K" Type Thermocouple "R" Type Thermocouple "S" Type Thermocouple	(-)200 °C to 800 °C (-)200 °C to 1200 °C (-)200 °C to 1300 °C (-)200 °C to 400 °C 0 °C to 1700 °C 0 °C to 1700 °C	0.28°C to 0.56 °C 0.31°C to 1.0 °C 0.31°C to 1.0 °C 0.32 °C to 0.7 °C 0.40°C to 1.2 °C 0.40°C to 1.2 °C	Using Fluke 9100 MF Calibrator By Direct Method
13.	DC Voltage*	1mV to10 mV 10 mV to30 mV 30 mV to 30 V 30 V to1000 V	1.30% to 0.14% 0.14% to 0.06% 0.06% to 0.12% 0.12% to 0.016%	Using Fluke 5080 MF Calibrator By Direct Method
14.	DC Current*	1 μA to 10 μA 10 μA to 30 μA 30 μA to 300 mA 300 mA to 20 A	11.6% to 1.25% 1.25% to 0.47% 0.47% to 0.07% 0.07% to 0.10%	Using Fluke 5080 MF Calibrator By Direct Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
15.	AC Voltage*	50 Hz to 1kHz 10 mV to 30 mV 30 mV to 30 V 30 V to 1000 V	1.08% to 0.61% 0.61% to 0.124% 0.124% to 184%	Using Fluke 5080 MF Calibrator By Direct Method
16.	AC Current*	50 Hz to 1kHz 100 μA to 300 mA 300 mA to 20 A	1.6% to 0.30% 0.30% to 0.8%	Using Fluke 5080 MF Calibrator By Direct Method
17.	Resistance [*] (2 Wire)	1 Ω to 10 Ω 10 Ω to 40 Ω 40 Ω to 400 kΩ 400 kΩ to 190 MΩ	1.5% to 0.18% 0.18% to 0.06% 0.06% to 0.049% 0.049% to 1.155%	Using Fluke 5080 MF Calibrator By Direct Method
18.	Frequency*	45 Hz to 1000 Hz	0.02% to 0.01%	Using Fluke 5080 MF Calibrator By Direct Method
19.	AC Power [*] Frequency 45 - 65 Hz Cos Ø:1 40 V to 600 Volt (100 mA to 20 A) 4 W to 1000 W 1 kW to 12 kW	4 W to 12 KW	2.0%	Using Fluke 5080 MF Calibrator
20.	DC Power [*] Cos Ø:1 40 V to 600 Volt (100 mA to 20 A) 4 W to 1000 W 1 kW to 12 kW	4 W to 12 KW	0.9%	Using Fluke 5080 MF Calibrator By Direct Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
21.	Power Factor*	45 to 60hz 0.1 to 1 (Lag/Lead)	1.9 %	Using Fluke 5080 MF Calibrator
22.	Temperature Simulation Temperature Indicator/Controller/ Recorder [•] RTD Type "J" Type Thermocouple "K" Type Thermocouple "R" Type Thermocouple "S" Type Thermocouple	(-)200 °C to 800 °C (-)200 °C to 1200 °C (-)200 °C to 1300 °C (-)200 °C to 400 °C 0 °C to 1700 °C 0 °C to 1700 °C	0.77°C to 0.76 °C 0.8°C to 2.0 °C 0.8°C to 2.0 °C 0.8°C to 2.0 °C 0.9°C to 2.2 °C 0.9°C to 2.2 °C	Using Fluke 725 Calibrator By Direct Method
11.	MEASURE			
1.	DC Voltage ^{\$}	1 mV to 100 mV 100 mV to 10 V 10 V to 1000 V	0.86% to 0.08% 0.08% to 0.007% 0.007% to 0.019%	Using 6½ Fluke Multimeter By Comparison Method
2.	DC Current [®]	1 μA to 20 μA 20 μA to 200 mA 200 mA to 10 A	3.007% to 0.205% 0.205% to 0.071% 0.071%to 0.21%	Using 6½ Fluke Multimeter By Comparison Method
3.	AC Voltage [®]	50 Hz 1 mVto 100 mV 100 mV to 1000 V	4.7% to 0.12% 0.12% to 0.11%	Using 6½ Fluke Multimeter By Comparison Method
4.	AC Current ^s	50 Hz 10 μA to 2 mA 2 mA to 200 mA 200 mA to 10 A	0.59% to 0.35% 0.35% to 0.35% 0.35% to 0.25%	Using 6½ Fluke Multimeter By Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		50 A to 1000 A	1.24% to 1.16 %	Using 1730 Fluke Energy Logger By Comparison Method
5.	Resistance ^{\$} (4 Wire)	1 mΩ to 10 mΩ 10 mΩ to 100 mΩ 100 MΩ to 1 Ω	1.3% to 0.9% 0.9% to 0.6% 0.6% to 0.2%	Using Micro Ohm Meter By Comparison Method
	(2 Wire)	1 Ω to 100 Ω 100 Ω to 100 KΩ 100 KΩ to 10 MΩ 10 MΩ to 1000 MΩ	0.96% to 0.09% 0.09% to 0.08% 0.08% to 0.17% 0.17% to 2.3%	Using 6½ Fluke Multimeter By Comparison Method
6.	Frequency⁵	10 Hz to 1 MHz	0.12 % to 0.01%	Using 6½ Fluke Multimeter By Comparison Method
7.	Capacitance ^{\$}	1 kHz 100 Pf to 100 µf	0.29% to 0.29 %	Using LCR Meter By Comparison Method
8.	Inductance ^{\$}	1 kHz 100 μh to 10 H	0.45% to 0.45%	Using LCR Meter By Comparison Method
9.	Stop Watch ^s (Digital/ Mechanical)	10 Sec to 24 Hours	0.010 s to 111.4 Sec.	Using Time Totalizer By Comparison Method
10.	Temperature Simulation Temperature Indicator/Controller/ Recorder ^{\$} RTD Type "J" Type Thermocouple	(-)200 °C to 800 °C (-)200 °C to 1200 °C	0.29°C to 0.6 °C 0.48°C to 1.0 °C	Using Fluke 1586 Temp. Scanner By Direct Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	"K" Type Thermocouple "T" Type Thermocouple "R" Type Thermocouple "S" Type Thermocouple	(-)200 °C to 1300 °C (-)200 °C to 400 °C 0 °C to 1700 °C 0 °C to 1700 °C	0.48°C to 1.0 °C 0.50°C to 0.8 °C 0.60°C to 1.4 °C 0.60°C to 1.4 °C	
11.	High Voltage* AC/DC	1 kV to 35 kV Dc 1 kV to 27 kV Ac	2.90% to 2.89% 6.28% to 6.27%	Using High Voltage Probe & DMM 4 ^{1/2} By Direct Method
12.	Timer*	10 Sec to 24 Hours	0.010 s to 111.4 Sec.	Using Time Totalizer By Comparison Method
13.	All DPM [*] (Related To Pressure/RPM/ Humidity/Weighing (0-20 Ma DC)	1 mA to 20 mA	0.07% to 0.08%	Using Fluke 725 Calibrator By Direct Method
14.	All DPM [*] (Related To Pressure/RPM/ Humidity/Weighing (0-10 V Dc)	10 mV to 10 V	0.15% to 0.06%	Using Fluke 725 Calibrator By Direct Method
15.	Power / Energy* 1¢,3¢ Pf 0.5 (Lag/Lead) Frequency 45-65 Hz	Voltage 50 V to 500 V Current 0.1 A To 1000 A Active Power 36 Kw AC Energy 30 KWH	0.1% 0.1% 0.7% 2.17%	Using Energy Logger Fluke1730 By Comparison/Direct Method
	1φ,3φ Upf Frequency 45-65 Hz	Active Power 72 Kw Reactive Power 72 Kw Appr. Power 72 Kw	0.7% 0.7% 0.7%	Using Energy Logger Fluke1730 By Comparison/Direct Method

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SI.	Quantity Measured /	Range/Frequency	*Calibration Me	asurement	Remar	ks

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
16.	Power Factor [*] Frequency 45-65 Hz	0.1 To 1 (Lag/Lead)	0.917%	Using Energy Logger Fluke1730 By Comparison/Direct Method

	MECHANICAL CALIBRATION				
1.	Vernier Caliper/ Dial/Electronic L.C. : 0.01 mm	0 to 600 mm	16.6 µm	Using Caliper Checker Comparison Method	
2.	Depth Caliper Vernier/Digital/Dial L.C. : 0.01 mm	0 to 150 mm	8.4 µm	Using Gauge Block Set Comparison Method	
3.	Height Gauge Vernier/Digital/Dial L.C. : 0.01 mm	0 to 600 mm	15.1 µm	Using Caliper Checker Comparison Method	
4.	External Micrometer Vernier/Digital/Dial L.C. : 0.001 mm	0 to 100 mm	1.8 µm	Using Gauge Block Set Comparison Method	
5.	Micrometer Setting Standard	25mm to 75 mm	3.3 µm	Using Gauge Block Set Comparison Method	

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Inside Micrometer Stick Micrometer (2 Points) Basic Travel Of Micrometer L.C. : 0.01 mm	Up to 100 mm	3.3 µm	Using Gauge Block Set Comparison Method
	Overall Length Accuracy With Extension Rod L.C. : 0.01 mm	50 mm to 600 mm	10.5 µm	Using Caliper Checker Comparison Method
7.	Depth Micrometer L.C. : 0.01 mm	0 to 25m	2.0 µm	Using Gauge Block Set Comparison Method
8.	Plunger Dial L.C. : 0.01 mm	0 to 25 mm	1.9 µm	Using Electronic Dial Calibration Tester Comparison Method
9.	Lever Dial L.C. : 0.001 mm L.C. : 0.01 mm	0 to 0.14 mm 0 to 0.8 mm	1.8 μm 6.0 μm	Using Electronic Dial Calibration Tester Comparison Method
10.	Bore Gauge (For Transmission Error) L.C. : 0.001 mm	0 to 1 mm	3.4 µm	Using Electronic Dial Calibration Tester Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	Plain Plug Gauge	1mm to 100 mm	3.2 μm	Using Gauge Block Set, Comparator Stand With Dial Gauge Comparison Method
12.	Snap Gauge	3 mm to 100 mm	1.0 µm	Using Gauge Block Set, Comparison Method
13.	Feeler Gauge/ Thickness Foils	Up to 1 mm	2.4 μm	Using Digital Micrometer, Comparison Method
14.	Dial Thickness Gauge L.C : 0.001 mm	0 to 25 mm	6.6 µm	Using Gauge Block Set, Comparison Method
15.	Bevel Protector L.C : 5 min	0 to 90 °	4.5 min	Using Angle Gauge Set, Surface Plate Comparison Method
16.	Combination Set LC : 1°	0 to 180 °	35 min	Using Angle Gauge Set, Surface Plate Comparison Method
17.	Coating Thickness Gauge	Up to 1 mm	2.0 μm	Using Thickness Foils, Comparison Method
18.	Pistol Caliper LC : 0.001 mm	Up to 100 mm	67 μm	Using Gauge Block Set, Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
19.	V Block Parallelism, Flatness, Symmetricity	Up to 150 mm	18.3 μm	Using Gauge Block Set, Straight Mandrel Comparison Method
II.	PRESSURE INDICATI	NG DEVICES		
1.	Manometer/ Magnehelic Gauge [#]	0 to 2.5 Mbar 2.5 to 100 Mbar	0.103 mbar 1.66 mbar	Using Digital Manometer By Comparison method based on DKD-R-6-1 &2
2.	Vacuum Gauge,Dial, Digital, Vacuum Transmitter/Switch/ Transducer With Or Without Indicator [#]	(-)0.92 to 0 Bar	0.01 bar	Using Digital Pressure Gauge By Comparison method based on DKD- R-6-1 &2
3.	Pressure Gauge,Dial, Digital, Pressure Transmitter/Switch/ Transducer With Or Without Indicator [#]	0 to 4 Bar	0.01 bar	Using Digital Pressure Gauge By Comparison method based on DKD- R-6-1 &2
4.	Pressure Gauge,Dial, Digital, Pressure Transmitter/Switch/ Transducer With Or Without Indicator [#]	0 to 30 Bar	0.11 bar	Using Digital Pressure Gauge By Comparison method based on DKD- R-6-1 &2
5.	Pressure Gauge, Dial, Digital, Pressure Transmitter/Switch/ Transducer With Or Without Indicator [#]	0 to 700 Bar	1.65 bar	Using Digital Pressure Gauge By Comparison method based on DKD- R-6-1 &2
III.	SPEED & ACCELERA	TION		
1.	Digital/Analogue Tachometer & RPM	Contact 100 to 3000 RPM	0.48 %	Using Digital

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	Meter, Rpm Indicator RPM Meter Of Centrifuge [#] (Contact & Non Contact)	Non Contact 3000 to 50000 Rpm	0.83 %	Tachometer& RPM Source By Comparison method based

IV.	ACOUSTIC			
1.	Digital/Analogue Sound Level Meter ^{\$}	94 Db 114 Db	2.65 db 2.71 db	Using Sound Calibrator by Direct Method
۷.	WEIGHTS			
1.	Mass Class M1 & Coarser ^{\$}	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	0.022 mg 0.022 mg 0.022 mg 0.022 mg 0.024 mg 0.022 mg 0.022 mg 0.027 mg 0.067 mg 0.067 mg 0.111 mg 0.133 mg	Using Standard Weights Class F1 & Weighing Balance LC :0.01/0.1 mg) as per OIML R-111

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	Class M2 & Coarser ^{\$}	500 g 1000 g	8.5 mg 14 mg	Using Standard Weights Class M1 & Weighing Balance LC :0.1 mg) as per OIMLR-111
		2 kg 5 kg	32 mg 86 mg	Using Standard Weights Class M1 & Weighing Balance LC :0.001 g) as per OIML R-111
VI.	WEIGHING SCALE & B	ALANCE		
1.	Weighing Scale (Class II And Coarser) Readability = 0.1 mg And Coarser*	1 mg to 200 g	0.5 mg	Using Standard Weights Class F1 as per OIML R- 76-1 7
	Class III And Coarser* Readability = 500 mg Readability = 2 G	>200 g to 5 kg >5 kg to 40 kg	0.65 mg 1.45 mg	Using Standard Weights Class M1 as per OIML R- 76-1 7
	Class IV And Coarser [*] Readability = 20 g	>40 kg to 200 kg	19.3 g	Using Standard Weights Class M1 as per OIML R- 76-1 7

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration M Capability (±)	leasurement	Remark	s

	THERMAL CALIBRATION					
Ι.	TEMPERATURE					
1.	Temperature, Transmitter, RTDS, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge, Digital Thermometer [#]	-196 ⁰ C	0.20 °C	Using PRT with Data Scanner & Liquid Nitrogen Bath By Comparison Method		
2.	Temperature, Transmitter, Rtds, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge, Digital Thermometer, Glass Thermometer [#]	-35 °C to 50 °C	0.31 °C	Using PRT with Data Scanner Low Temperature Bath by Comparison Method		

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	Temperature, Transmitter, Rtds, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge, Digital Thermometer, Glass Thermometer [#]	50 °C to 250 °C	0.29 ^o C	Using PRT with Data Scanner & Oil Bath By Comparison Method
4.	Temperature, Transmitter, RTDS, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge, Digital Thermometer [#]	250 °C to 400 °C	0.88 ⁰ C	Using PRT with Data Scanner & Dry Block Furnace By Comparison Method
5.	Temperature, Transmitter, RTDS, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge, Digital Thermometer [#]	400 °C to 1200 °C	2.8 ^o C	Using S Type Thermocouple With Data Scanner & Dry Block Furnace By Comparison Method
6.	Temperature Indicator With Sensor Of Liquid Nitrogen Bath*	-196 ⁰ C	0.3 °C	Using PRT With Data Scanner Single Position Calibration (At measuring Location in DUC)

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
7.	Temperature Indicator With Sensor Of Freezer,Oven, Environment, Chambers, Incubator, Liquid Bath, Dry Block Furnace [*]	-80 °C to 400 °C	0.88 [°] C	Using PRT With Data Scanner Single Position Calibration (At measuring Location in DUC)

8.	Temperature Indicator With Sensor Of Furnace, Muffle Furnace, Dry Block Furnace [*]	400 ^⁰ C to 1200 ^⁰ C	2.8 ⁰ C	Using S Type Thermocouple With Data Scanner Single Position Calibration (At measuring Location in DUC)
9.	Calibration Of Freezer, Ovens, Environment Chamber, Incubator*	-30 ^o C to 250 ^o C	2.4 ⁰ C	Using RTD Sensors (Minimum Nine) With Data Logger Multi Position Calibration
10.	Calibration Of Industrial Furnace/, Muffle Furnace Etc [*]	250 °C to 1200 °C	4.4 °C	Using K-Type Thermocouple (Minimum Nine) Data Logger Multi Position Calibration
11.	SPECIFIC HEAT AND H			

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
1.	Digital / Analogue Hygrometer, Rh Sensor With Controller/ Indicator/Recorder/ Data Logger ^{\$}	30 % RH to 85% RH @ -25 ⁰ C	0.82% RH	Using RH Indicator & RH Generator Cum Chamber BY Comparison Calibration
2.	Humidity Sensor Of Industrial Environment Chamber/ Humidity Chamber ⁺	30 % RH to 85% RH @ -25 [°] C	1.82% RH	With RH Indicator Single Position Calibration (At measuring Location in DUC)

3.	Calibration Of	30 % RH to 85% RH	3.9 %RH	Using Wireless Humidity/
	Environment	@ -25°C		Temp. Data logger.
	Chamber,			(Minimum Nine)
	Humidity Chamber*			Multiposition Calibration

* 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.