

Laboratory **Gayathiri Calibration Services, 25, Mahalakshmi Koil Street,
Masakalipalayam, Coimbatore, Tamil Nadu**

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

Certificate Number **CC-2913**

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Validity **13.12.2018 to 12.12.2020**

Last Amended on **-**

“In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020”

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage ^s	1mV to 10 mV 10 mV to 10 V 10V to 100 V 100 V to 1000 V	0.24 % to 0.026 % 0.026 % to 0.0016 % 0.0016% to 0.002% 0.002%	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
2.	DC Current ^s	10 μ A to 100 μ A 100 μ A to 10 mA 10 mA to 1 A 1 A to 20 A 20 A to 50 A 50 A to 900 A	0.15 % to 0.023 % 0.023 % to 0.008 % 0.008 % to 0.024 % 0.024 % to 0.045 % 0.59 % to 0.33 % 0.33 % to 0.28 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method Using Multiproduct Calibrator Transmille 4010 with AC/DC Clamp Coil Adapter By Direct method
3.	AC Voltage ^s	45 Hz to 10 kHz 10 mV to 100 mV 100 mV to 10 V 10 V to 100 V 10 kHz to 100 kHz 10 mV to 100 mV 100 mV to 10 V 10 V to 100 V 50 Hz to 1kHz 100 V to 1000 V 1kHz to 10kHz 100 V to 1000 V	0.80 % to 0.112 % 0.112 % to 0.077 % 0.077 % to 0.082 % 2.62 % to 0.2 % 0.2 % to 0.14 % 0.14 % to 0.3 % 0.082 % to 0.034 % 0.044 % to 0.15 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
4.	AC Current ^s	20 Hz to 1 kHz 100 μ A to 1 mA 1 mA to 100 mA 100 mA to 1 A	0.53 % to 0.27 % 0.27 % 0.27 % to 0.28 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
		40 Hz to 1kHz 1 A to 10 A 10 A to 20 A	0.14 % to 0.4 % 0.4%	
		1 kHz to 10 kHz 10 mA to 100mA	0.33 % to 0.63 %	
		1 kHz to 5 kHz 100 mA to 1 A 1 A to 10 A 10 A to 20 A	0.63 % 0.63 % to 0.74 % 0.74 %	
		50 Hz 10 A to 50 A 50 A to 980 A	0.96 % to 0.40 % 0.4 % to 0.295 %	Using Multiproduct Calibrator-Transmille 4010 with AC/DC Clamp Coil Adapter By Direct method
5.	AC Power ^s	50 Hz PF : 1 0.1 A to 20 A 60 V to 240 V 6 W to 4.8 kW	0.24 % to 0.077 %	Using Advanced Multiproduct Calibrator, Transmille 4010 by Direct Method
		50 Hz PF = 0.2 0.1A to 20 A 60 V to 240 V 1.2 W to 0.96 kW	0.34 % to 0.089 %	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
6.	DC Power ^s	0.1 A to 20 A 1 V to 600 V 0.1 W to 12 kW	0.14 % to 0.049 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
7.	Frequency ^s	10 Hz to 1 MHz	0.0002 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
8.	DC Resistance ^s	10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100k Ω to 1 M Ω 1M Ω to 10 M Ω 10 M Ω to 100 M Ω	0.061 % to 0.008% 0.008 % to 0.003 % 0.003 % to 0.002% 0.002 % to 0.003 % 0.003 % to 0.004 % 0.004 % to 0.012 % 0.012 % to 0.25 %	Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
		2 Wire (Fixed) 1.000015 M Ω 10.0019 M Ω	0.006 % 0.03 %	
		4 Wire (Fixed) 0.1 Ω 1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω	0.58 % 0.58 % 0.061 % 0.008 % 0.003 % 0.002 % 0.003%	
		10 M Ω to 1 G Ω	2.5%	
				Using Highstability Decade Meg Ohm Resistance Box Vaiseshika 8400 By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
9.	Temperature Simulation ^s			Using Advanced Multiproduct Calibrator, Transmille 4010 By Direct Method
	Thermocouple			
	K Type	(-) 200°C to 1350 °C	0.32 °C	
	J Type	(-) 200°C to 1200 °C	0.27 °C	
	T Type	(-) 200°C to 100 °C	0.69 °C	
		100°C to 400 °C	0.14 °C	
	E Type	(-) 200°C to 400 °C	0.58 °C	
		400°C to 1000 °C	0.18 °C	
	R Type	500°C to 1750 °C	0.83 °C	
	B Type	600°C to 1800 °C	1.02 °C	
S Type	500°C to 1750 °C	0.83 °C		
N Type	(-) 200°C to 400 °C	0.49 °C		
	400°C to 1300 °C	0.29 °C		
	RTD (PT-100)	(-)100 °C to 800 °C	0.63 °C	
II.	MEASURE			
1.	DC Voltage ^s	1 mV to 100 mV	0.464 % to 0.009 %	Using 6½ Digit High Precision Digital Multimeter Fluke 8846A By Direct method
		100 mV to 10 V	0.009 % to 0.003 %	
		10 V to 100 V	0.003% to 0.005%	
		100 V to 1000 V	0.005% to 0.006%	
2.	DC Current ^s	10 µA to 100 µA	0.36 % to 0.087 %	Using 6½ Digit High precision Digital Multimeter Fluke 8846A By Direct method
		100 µA to 1 mA	0.087 % to 0.066 %	
		1 mA to 1 A	0.066 % to 0.082 %	
		1 A to 10 A	0.082 % to 0.18 %	
		10 A to 19 A	0.13 %	Using Digital Power Meter Yokogawa WT310E By Direct method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
3.	DC Power ^s	15 V to 500 V 100 mA to 20 A 1.5 W to 10 kW	0.48 % to 0.35 %	Using Digital Power Meter Yokogawa WT310E By Direct Method
4.	AC Voltage ^s	20 Hz to 10 kHz 100 mV to 10 V	0.12 % to 0.11 %	Using 6½ Digit High precision Digital Multimeter Fluke 8846A by Direct method
		10 kHz to 100 kHz 100 mV to 10 V	0.79 %	
		40 Hz to 10 kHz 10 V to 100 V	0.11 %	
		10 kHz to 100 kHz 10 V to 100 V	0.79 %	
		50 Hz to 1 kHz 100 V to 1000 V	0.11 % to 0.14 %	
		50 Hz 1 kV to 5 kV	3.88 % to 4.4 %	Using High Voltage probe HVP40 By Direct Method
5.	AC Current ^s	20 Hz to 1 kHz 100 μ A to 100 mA 100 mA to 1 A 1 A to 10 A	0.25 % to 0.17 % 0.17 % to 0.17 % 0.17 % to 0.25 %	Using 6½ Digit High precision Digital Multimeter Fluke 8846A By Direct method
		1 kHz to 10 kHz 100 μ A to 100mA	1.21 % to 0.52 %	
		1 kHz to 5 kHz 100 mA to 10 A	0.52 % to 0.17%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
6.	AC Power ^s	50 Hz PF: 1 15 V to 500 V 100 mA to 20 A 1.5 W to 10 kW	0.476 % to 0.396 %	Using Yokogawa WT310E Digital Power Meter by Direct method
7.	Temperature Simulation ^s			Using Advanced Multiproduct Calibrator, Transmille 4010
	Thermocouple			
	K Type	(-)199 °C to 0.1350 °C	2.51 °C	
	J Type	(-)199 °C to 1199 °C	2.43 °C	
	T Type	(-)199 °C to 399 °C	2.42 °C	
	E Type	(-)199 °C to 999 °C	2.42 °C	
	B Type	600 °C to 1799 °C	2.83 °C	
	R Type	500 °C to 1750 °C	2.8 °C	
	S Type	500 °C to 1750 °C	2.8 °C	
	N Type	(-)199 °C to 1299 °C	2.48 °C	
	RTD (PT-100)	(-)100 °C to 400 °C	1.97 °C	
8.	Resistance ^s	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1 G Ω	0.36 % to 0.047% 0.04 % to 0.016 % 0.016 % to 0.013% 0.012 % to 0.047 % 0.047 % to 0.094 % 0.094 % to 2.32 %	Using 6½ Digit High precision Digital Multimeter Fluke 8846A By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
9.	Frequency [§]	10 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 100 kHz 100 kHz to 1 MHz	0.58 % to 0.058 % 0.05 % to 0.125 % 0.125 % to 0.58 % 0.58 % to 0.058 %	Using 6½Digit High precision Digital Multimeter Fluke 8846A By Direct Method

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

§ Only in Permanent Laboratory

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