



Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: PicoCal Technologies Private Limited

Page No. 1 of 13

Address: No. 118, 1st Floor, Big Street, Neivanatham Village,
Tiruvannamalai – 606754, Tamil Nadu

Certificate No.: C-0019

Issue date : 18.06.2026

Validity : 17.06.2030

Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
Discipline: Electro-Technical, Group: Direct Current-Measure					
1	DC Voltage	1 mV to 10 mV	Using 6 ½ Digit Multimeter by Direct Method	0.42 % to 0.049 %	Permanent & Site
		10 mV to 100 mV	Using 6 ½ Digit Multimeter by Direct Method	0.049 % to 0.010 %	
		100 mV to 1 V	Using 6 ½ Digit Multimeter by Direct Method	0.010 % to 0.0063 %	
		1 V to 10 V	Using 6 ½ Digit Multimeter by Direct Method	0.0063 % to 0.0057 %	
		10 V to 100 V	Using 6 ½ Digit Multimeter by Direct Method	0.0057 % to 0.0067 %	
		100 V to 1000 V	Using 6 ½ Digit Multimeter by Direct Method	0.0067 % to 0.0071 %	
		1 kV to 6 kV	Using HV Probe with Multimeter by Direct Method	1.70%	
2	DC Current	10 µA to 100 µA	Using 6 ½ Digit Multimeter by Direct Method	0.39 % to 0.087 %	Permanent & Site
		100 µA to 1 mA	Using 6 ½ Digit Multimeter by Direct Method	0.087 % to 0.066 %	
		1 mA to 10 mA	Using 6 ½ Digit Multimeter by Direct Method	0.066 % to 0.081 %	



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		10 mA to 100 mA	Using 6 ½ Digit Multimeter by Direct Method	0.081 % to 0.064 %	
		100 mA to 1 A	Using 6 ½ Digit Multimeter by Direct Method	0.064 % to 0.13 %	
		1 A to 10 A	Using 6 ½ Digit Multimeter by Direct Method	0.13 % to 0.16 %	
3	Resistance	1 Ω to 10 Ω	Using 6 ½ Digit Multimeter by Direct Method	0.47 % to 0.058 %	Permanent & Site
		10 Ω to 100 Ω	Using 6 ½ Digit Multimeter by Direct Method	0.058 % to 0.016 %	
		100 Ω to 1 MΩ	Using 6 ½ Digit Multimeter by Direct Method	0.016 % to 0.013 %	
		1 MΩ to 10 MΩ	Using 6 ½ Digit Multimeter by Direct Method	0.013 % to 0.048 %	
		10 MΩ to 100 MΩ	Using 6 ½ Digit Multimeter by Direct Method	0.048 % to 0.94 %	
Discipline: Electro-Technical, Group: Alternating Current (< 1 GHz) - Measure					
4	AC Voltage @ 50 Hz to 1 kHz	10 mV to 100 mV	Using 6 ½ Digit Multimeter by Direct Method	0.43 % to 0.11 %	Permanent & Site
		100 mV to 750 V	Using 6 ½ Digit Multimeter by Direct Method	0.11%	



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	AC Voltage @ 50 Hz	0.75 kV to 5 kV	Using HV Probe with Multimeter by Direct Method	1.9%	Permanent & Site
5	AC Current @ 50 Hz to 1 kHz	30 μ A to 100 μ A	Using 6 ½ Digit Multimeter by Direct Method	0.47 % to 0.18 %	Permanent & Site
		100 μ A to 1 A	Using 6 ½ Digit Multimeter by Direct Method	0.18%	
		1 A to 10 A	Using 6 ½ Digit Multimeter by Direct Method	0.18 % to 0.26 %	
6	AC Resistance @ 1 kHz	1 Ω to 10 k Ω	Using LCR Meter by Direct Method	0.20%	Permanent & Site
7	Inductance @ 1 kHz	100 μ H to 10 H	Using LCR Meter by Direct Method	0.21%	Permanent & Site
8	Capacitance @ 1 kHz	100 pF to 100 μ F	Using LCR Meter by Direct Method	0.20%	Permanent & Site
Discipline: Electro-Technical, Group: RF/Microwave (1 GHz and Above) - Measure					
9	RF/Microwave Power @ 10 Hz to 9 kHz	-47 dBm to 23 dBm	Using True RMS Voltmeter, 50 Ohm	0.50 dB to 0.31 dB	Permanent & Site
	RF/Microwave Power @ 9 kHz to 10 MHz	-60 dBm to 13 dBm	Load by Direct Method	0.45 dB	
	RF/Microwave Power @ 10 MHz to 18 GHz	-60 dBm to 13 dBm	Using Power Meter with Sensor by Direct Method	0.41 dB to 0.28 dB	
10	Harmonics 2 nd & 3 rd Order	9 kHz to 18 GHz	Using Signal Analyzer by Direct Method	0.49 dB to 1.76 dB	Permanent & Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
11	Phase Noise & Offset Frequency 100 Hz to 10 MHz	10 MHz to 18 GHz	Using Signal Analyzer by Direct Method	0.49 dB to 1.77 dB	Permanent & Site
12	Amplitude Modulation @ Carrier Frequency 10 MHz to 6 GHz & Mod Rate 50 Hz to 10 kHz	AM Depth 5 % to 95 %	Using Signal Analyzer by Direct Method	3.4 %	Permanent & Site
13	Frequency Modulation @ Carrier Frequency 10 MHz to 6 GHz & Mod Rate 50 Hz to 10 kHz	FM Deviation 5 kHz to 500 kHz	Using Signal Analyzer by Direct Method	0.35%	Permanent & Site
14	Pulse Modulation @ Carrier Frequency 10 MHz to 6 GHz & Duty Cycle 10 % to 90 %	Pulse Period 10 μ s to 10 s	Using Signal Analyzer by Direct Method	0.007%	Permanent & Site
		Pulse Width 1 μ s to 9 s		0.007%	
		On/Off Ratio Power upto 90 dB		0.48 dB	
Discipline: Electro-Technical, Group: RF/Microwave (1 GHz and Above) & EMI/ EMC - Measure					
15	Transmission: Attenuation, Insertion Loss, Coupling loss, Decoupling Loss, Isolation Loss, Voltage Division Factor, Return Loss & Directivity @ 10 Hz to 9 kHz	0 dB to 70 dB	Using True RMS Voltmeter, 50 Ohm Load & Function Generator by Direct Method	0.31 dB to 0.50 dB	Permanent & Site



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	Transmission: Attenuation, Insertion Loss, Coupling loss, Decoupling Loss, Isolation Loss, Voltage Division Factor, Return Loss & Directivity @ 9 kHz to 10 MHz	0 dB to 70 dB	Using True RMS Voltmeter, 50 Ohm Load & Function Generator by Direct Method	0.45 dB	Permanent & Site
	Transmission: Attenuation, Insertion Loss, Coupling loss, Decoupling Loss, Isolation Loss, Voltage Division Factor, Return Loss & Directivity @ 10 MHz to 18 GHz	0 dB to 70 dB	Using Power Meter with Sensor, Microwave Test Set & 50 Ohm Load by Direct Method	0.29 dB to 0.43 dB	
16	Reflection: VSWR / Return Loss @ 1 kHz to 1 GHz	1.01 to 3	Using Vector Network Analyzer & 50 Ohm Load (Cal Kit) by Direct Method	9.9%	Permanent & Site
		0 dB to 50 dB		0.37 dB	
	Reflection: VSWR / Return Loss @ 10 MHz to 18 GHz	1.01 to 3	Using Microwave Test Set, SWR Autotester & 50 Ohm Load (Cal Kit) by Direct Method	7.6 %	
		0 dB to 40 dB		0.32 dB	



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Discipline: Electro-Technical, Group: EMI/ EMC - Measure					
17	Impedance @ 1 kHz to 500 MHz	1 Ω to 250 Ω	Using Vector Network Analyzer & 50 Ohm Load (Cal Kit) by Direct Method	9.9 %	Permanent & Site
18	Phase Angle @ 1 kHz to 500 MHz	0° to ± 180°	Using Vector Network Analyzer & 50 Ohm Load (Cal Kit) by Direct Method	0.3° to 4.17°	Permanent & Site
19	RF Gain & 1 dB Compression Point @ 9 kHz to 1 GHz	10 dB to 60 dB (10 mW to 1000 W)	Using True RMS Voltmeter, 50 Ohm Load, Power Meter with Sensor, Signal Analyzer, Function Generator &	5 % to 10 %	Permanent & Site
	RF Gain & 1 dB Compression Point @ 1 GHz to 6 GHz	10 dB to 57 dB (10 mW to 500 W)		5 % to 10 %	
	RF Gain & 1 dB Compression Point @ 6 GHz to 18 GHz	10 dB to 50 dB (10 mW to 100 W)	Microwave Test Set by Direct Method	5 % to 10 %	
Discipline: Electro-Technical, Group: Time & Frequency - Measure					
20	Frequency	1 Hz to 100 MHz	Using Universal Counter & Signal Analyzer by Direct Method	1.2 ppm to 0.0014 ppm	Permanent & Site
		100 MHz to 20 GHz	Using Microwave Test Set & Signal Analyzer by Direct Method	0.0014 ppm	



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
21	Time Period	10 s to 10 ns	Using Universal Counter & Signal Analyzer by Direct Method	1.2 ppm to 0.0014 ppm	Permanent & Site
		50 ps to 10 ns	Using Microwave Test Set & Signal Analyzer by Direct Method	0.0014 ppm	
22	Time Interval	1 ms to 86400 s	Using Universal Counter by Direct / Comparison Method	0.1 ppm to 0.023 ppm	Permanent & Site
Discipline: Electro-Technical, Group: Temperature Simulation - Measure					
23	Temperature Simulation	RTD - PT-100	Using 6 ½ Digit Multimeter by Direct Method	0.19 °C	Permanent & Site
		-200 °C to 800 °C			
Discipline: Electro-Technical, Group: Direct Current - Source					
24	DC Voltage	1 mV to 100m V	Using Oscilloscope Calibrator by Direct Method	0.52 % to 0.31 %	Permanent & Site
		100 mV to 200 V		0.30%	
		0.5 kV to 6 kV	Using HV Source & HV Probe with Multimeter by Comparison Method	1.90%	
25	DC Current	1 A to 10 A	Using DC Power Supply & 6 ½ Digit Multimeter by Comparison Method	0.14 % to 0.17 %	Permanent & Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
26	Resistance	1 mΩ to 500 mΩ	Using Standard Resistors Box by Direct Method	0.58%	Permanent & Site
		500 mΩ to 10 Ω		0.58 % to 0.23 %	
		10 Ω to 1 MΩ		0.23 % to 0.023 %	
		1 Ω to 10 Ω	Using Decade Resistance Box by Direct Method	1.20 % to 0.58 %	
		10 Ω to 100 Ω		0.58 % to 0.12 %	
		100 Ω to 10 MΩ		0.12 % to 0.12 %	
		10 MΩ to 100 MΩ		0.12 % to 1.20 %	
Discipline: Electro-Technical, Group: Alternating Current (< 1 GHz) - Source					
27	AC Voltage @ 1 kHz	3 mV to 100mV	Using Oscilloscope Calibrator by Direct Method	0.75 % to 0.31 %	Permanent & Site
		100 mV to 100 V		0.31%	
	AC Voltage @ 50 Hz	0.5 kV to 5 kV	Using HV Source & HV Probe with Multimeter by Comparison Method	2.00%	
28	AC Resistance @ 50 Hz	1 mΩ to 500 mΩ	Using Standard Resistors Box by Direct Method	0.60%	Permanent & Site
	AC Resistance @1 kHz	1 Ω to 10 kΩ	Using Decade Resistance Box & LCR Meter by Comparison Method	0.21%	



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
29	Inductance @1 kHz	100 μ H to 10 H	Using Decade Inductance Box & LCR Meter by Comparison Method	0.21%	Permanent & Site
30	Capacitance @1 kHz	100 pF to 100 μ F	Using Decade Capacitance Box & LCR Meter by Comparison Method	0.21%	Permanent & Site
Discipline: Electro-Technical, Group: RF/Microwave (1 GHz and Above) - Source					
31	RF/Microwave Power @ 10 Hz to 9 kHz	-47 dBm to 23 dBm	Using True RMS Voltmeter, 50 Ohm Load & Function Generator by Comparison Method	0.45 dB	Permanent & Site
	RF/Microwave Power @ 9 kHz to 10 MHz	-60 dBm to 13 dBm		0.45 dB	
	RF/Microwave Power @ 10 MHz to 18 GHz	-60 dBm to 13 dBm	Using Power Meter with Sensor & Microwave Test Set by Comparison Method	0.41 dB to 0.28 dB	
32	Display Average Noise Level, Dynamic Range & Noise Floor	DC to 9 kHz	50 Ohm Termination by Direct Method	5 % to 10 %	Permanent & Site
	Display Average Noise Level, Dynamic Range & Noise Floor	9 kHz to 10 MHz		9 %	
	Display Average Noise Level, Dynamic Range & Noise Floor	10 MHz to 18 GHz		9 %	
33	Amplitude Modulation @ Carrier Frequency 10 MHz to 3 GHz &	AM Depth 5 % to 95 %	Using Signal Generator & Signal	3.70 %	Permanent & Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	Mod Rate 50 Hz to 10 kHz		Analyzer by Comparison Method		
34	Frequency Modulation @ Carrier Frequency 10 MHz to 3 GHz & Mod Rate 50 Hz to 10 kHz	FM Deviation 5 kHz to 500 kHz	Using Signal Generator & Signal Analyzer by Comparison Method	0.92 %	Permanent & Site
35	Pulse Modulation @ Carrier Frequency 10 MHz to 3 GHz & Duty Cycle 10 % to 90 %	Pulse Period 10 μ s to 10 s	Using Signal Generator & Signal Analyzer by Comparison Method	0.007 %	Permanent & Site
		Pulse Width 1 μ s to 9 s		0.0067 %	

Discipline: Electro-Technical, **Group:** RF/Microwave (1 GHz and Above) - Source

36	Transmission: Attenuation, Dynamic Accuracy, Display Scale Fidelity & Display Linearity @ 10 Hz to 9 kHz	0 dB to 70 dB	Using True RMS Voltmeter, 50 Ohm Load, Function Generator & Step Attenuator by Comparison Method	0.31 dB to 0.45 dB	Permanent & Site
	Transmission: Attenuation, Dynamic Accuracy, Display Scale Fidelity & Display Linearity @ 9 kHz to 10 MHz	0 dB to 70 dB		0.45 dB	Permanent & Site
	Transmission: Attenuation, Dynamic Accuracy, Display Scale Fidelity & Display Linearity @ 10 MHz to 18 GHz	0 dB to 70 dB	Using Power Meter with Sensor, Microwave Test Set & Step Attenuator by Comparison Method	0.42 dB to 0.55 dB	Permanent & Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
37	Reflection: VSWR / Return Loss @ 1 kHz to 1 GHz	1.01 to 3	Using Vector Network Analyzer, 50 Ohm Load (Cal Kit), Mismatch Load & Attenuator by Comparison Method	11.2%	Permanent & Site
		0 dB to 50 dB		0.40 dB	
	Reflection: VSWR / Return Loss @ 10 MHz to 18 GHz	1.01 to 3	Using Microwave Test Set, SWR Autotester, 50 Ohm Load (Cal Kit), Mismatch Load & Attenuator by Comparison Method	9%	
		0 dB to 40 dB		0.40 dB	
Discipline: Electro-Technical, Group: Time & Frequency - Source					
39	Frequency	1 Hz to 10 MHz	Using Function Generator & Signal Analyzer by Direct Method	1.2 ppm to 0.0014 ppm	Permanent & Site
		10 MHz to 20 GHz	Using Microwave Test Set & Signal Analyzer by Direct Method	0.0014 ppm	
40	Time Period	100 ns to 10 s	Using Function Generator & Signal Analyzer by Direct Method	1.2 ppm to 0.0014 ppm	Permanent & Site
		50 ps to 100 ns	Using Microwave Test Set & Signal Analyzer by Direct Method	0.0014 ppm	



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
41	Speed (RPM) using Frequency	60 RPM to 90 kRPM	Using Function Generator & LED Light by Direct Method	1.00 % to 0.0090%	Permanent & Site
Discipline: Electro-Technical, Group: Temperature Simulation - Source					
42	Temperature Simulation	RTD - PT-100	Using 6 ½ Digit Multimeter by Direct Method	0.29 °C	Permanent & Site
		-190 °C to 800 °C			
Discipline: Electro-Technical, Group: Oscilloscopes - Source					
43	DC Amplitude	1 mV to 200 V	Using Oscilloscope Calibrator by Direct Method	0.52 % to 0.30 %	Permanent & Site
	AC Amplitude @ 1 kHz	3 mV to 200 V		0.75 % to 0.31 %	
	Time Period	10 ns to 5 s	Using Oscilloscope Calibrator & Universal Counter by Direct Method	1.2 ppm	
		100 ns to 10 s	Using Function Generator & Universal Counter by Direct Method	0.023 ppm	
		50 ps to 100 ns	Using Microwave Test Set & Universal Counter by Direct Method	0.023 ppm	



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International Quality And Accreditation Services Pvt. Ltd.
(Formerly International Quality And Accreditation Services LLP)
1/4, 1st Floor, East Patel Nagar New Delhi, 110008

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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Range	Remarks/Method used	CMC	Facility
	Bandwidth	Reference @ 100 kHz to 1 GHz (0 dBm to 13 dBm)	Using Signal Generator by Direct Method	0.42 dB	Permanent & Site
		Reference @ 10 MHz to 18 GHz (0 dBm to 10 dBm)	Using Power Meter with Sensor & Microwave Test Set by Comparison Method	0.30 dB	
	Trigger sensitivity	10 MHz to 18 GHz (0.223 mV to 1 V)	Using Power Meter with Sensor & Microwave Test Set by Comparison Method	9%	

Note: CMC in ($\pm$) at 95% confidence level



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