



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

WINMET TECHNOLOGIES PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Plot No. 140 A, Sector-6, Faridabad, Haryana

in the discipline of

ELECTRO-TECHNICAL CALIBRATION

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number C-0796

Issue Date 14/02/2014



Valid Until 13/02/2016

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

Srikanth. R
Convenor

Anil Relia
Director

Dr. T. Ramasami
Chairman



NABL

Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory Winmet Technologies Pvt. Ltd., Plot No. 140-A, Sector-6, Faridabad, Haryana

Accreditation Standard ISO/IEC 17025:2005

Discipline Electro-Technical Calibration Issue Date 14.02.2014

Certificate Number C-0796 Valid Until 13.02.2016

Last Amended on 28.03.2014 Page 1 of 5

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
MEASURE^s			
1. DC VOLTAGE	1mV to 1V 1V to 10V 10V to 1000V	0.7% to 0.01% 0.01% 0.01%	Using 6½ DMM Fluke 8846A
2. AC VOLTAGE	50 Hz 10mV to 10V 10V to 1000V	1.11% to 0.07% 0.07%	Using 6½ DMM Fluke 8846A
3. DC CURRENT	10µA to 100µA 100µA to 100mA 100mA to 1A 1A to 10A	0.76% to 0.12% 0.12% to 0.02% 0.02% to 0.49% 0.49% to 0.13%	Using 6½ DMM
4. AC CURRENT	50Hz 1mA to 100mA 100mA to 1A 1A to 10A	0.16% 0.16% to 0.18% 0.18% to 0.25%	Using 6½ DMM Fluke 8846A
5. DC RESISTANCE	1Ω to 100Ω 100Ω to 100kΩ 100kΩ to 100MΩ 100MΩ to 1000MΩ	0.29% to 0.01% 0.01% 0.01% to 0.37% 0.37% to 1.18%	Using 6½ DMM Fluke 8846A
6. FREQUENCY	50Hz to 1kHz	0.12% to 0.006%	Using 6½ DMM Fluke 8846A


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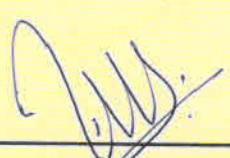
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
7. CAPACITANCE	1kHz 1nF to 100 μ F	1.04% to 0.5%	Using LCR Meter APLAB 4910
8. INDUCTANCE	1kHz 1mH to 10H	0.6% to 0.5%	Using LCR Meter APLAB 4910
9. TIME	100 s to 24 hrs	2.2s to 39 s	Using Stop Watch
MEASURE*			
10. DC VOLTAGE	1mV to 1 V 1V to 10V 10V to 1000V	0.70% to 0.04% 0.04% to 0.03% 0.03% to 0.12%	Using DMM by Comparison Method
DC HIGH VOLTAGE	1kV to 20 kV	2.4% to 3.5%	Using HV probe with Using DMM
11. AC VOLTAGE	50Hz 1mV to 1000V	1.0%	Using DMM
AC HIGH VOLTAGE	1kV to 28kV	3.5%	Using HV Probe with Using DMM
12. DC CURRENT	1mA to 200mA 200mA to 10A	0.19% to 0.12% 0.12% to 1.78%	Using DMM


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
13. AC CURRENT	50Hz 0.1A to 1A 1A to 10A	1.35% to 1.17% 1.17% to 1.98%	Using DMM
14. DC RESISTANCE	1 Ω to 10k Ω 10k Ω to 2M Ω 2M Ω to 50M Ω	0.77% to 0.12% 0.12% to 0.49% 0.49% to 2.31%	Using DMM
15. FREQUENCY	1Hz to 2MHz	0.7% to 0.08%	Using DMM
16. TIME	100 s to 24 hrs	2.2 s to 39 s	Stop Watch
SOURCE			
17. DC VOLTAGE [#]	20mV to 100mV 100mV to 1000V	1.06% to 0.04% 0.23%	Using Multifunction Calibrator Zeal 4½
18. AC VOLTAGE ^S	50Hz 10mV to 100mV 100mV to 1000V	1.91% to 0.13% 0.13% to 0.36%	Using Multifunction Calibrator Zeal 4½DMM
AC VOLTAGE [*]	50Hz 1mV to 100mV 100mV to 1000V	1.91% to 0.13% 0.13% to 0.36%	Using Multifunction Calibrator


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
19. DC CURRENT [#]	1mA to 100mA 100mA to 10A 100A to 800A	0.25% to 0.08% 0.08% to 0.20% 1.02% to 0.76%	Using Multifunction Calibrator Zeal 4½ DMM Current Coil
20. AC CURRENT [#]	50Hz 1mA to 100mA 100mA to 10A 100A to 800A	0.41% to 0.18% 0.18% to 0.43% 1.25% to 1.05%	Using Multifunction Calibrator Zeal 4½ DMM & Current Coil
AC CURRENT ⁺	50Hz 1mA to 100mA 100mA to 10A 100A to 800A	0.41% to 0.18% 0.18% to 0.43% 1.25% to 1.05%	Using Multifunction Calibrator
21. RESISTANCE ^s (2W)	1Ω to 100Ω 100Ω to 1000Ω 1000Ω to 100kΩ 100kΩ to 1000MΩ	1.36% to 0.12% 0.18% 0.18% 0.18% to 1.65%	Using Decade Resistance Box
22. CAPACITANCE ^s	1kHz 500pF to 1μF	3.0% to 0.6%	Using Decade Capacitance Box (Sigma)
23. INDUCTANCE ^s	1kHz 100μH to 10mH 10mH to 1H	2.43% to 1.31% 1.31% to 0.8%	Using Decade Inductance Box (Sigma)


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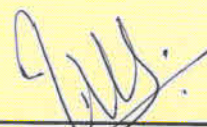
Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
24. FREQUENCY ^S	45Hz to 1000Hz	0.26%	Using Multifunction Calibrator
25. TEMPERATURE SIMULATION [#] (Indicator / Controller / Recorder)			
RTD Type PT 100	-100°C to 800°C	0.68°C	Using Universal Calibrator Radix
Thermocouple			
J Type	0°C to 760°C	1.36°C	Using Universal Calibrator Radix
K Type	0°C to 1000°C	1.66°C	
R Type	200°C to 1750°C	1.66°C	
S Type	200°C to 1750°C	1.66°C	
T Type	-100°C to 400°C	1.66°C	

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

^SOnly 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.


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