National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

AJIT ELECTRONICS CORPORATION

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

1st Floor, Gurudas Patil Building, Manpada,
Dombivali East, Maharashtra

in the field of

CALIBRATION

Certificate Number CC-2604

Issue Date 16/03/2018 **Valid Until** 15/03/2020

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

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

Signed for and on behalf of NABL

8907697020002000039O

Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**Ajit Electronics Corporation, 1st Floor, Gurudas Patil Building, Manpada, Dombivali East, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2604**	**Page**	**1 of 4**
Validity	**16.03.2018 to 15.03.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		ELECTRO TECHNICAL CALIBRATION		
I.	**SOURCE**			
1.	DC Voltage#	330mV to 30 V 30 V to 300 V 300 V to 1000 V	0.0023 % to 0.053 % 0.053 % to 0.015 % 0.015 %	Using MPC Fluke 5080A by Direct Method
2.	DC Current#	330 µA to 1 mA 1 mA to 30 mA 30 mA to 300 mA 300 mA to 20 A 20 A to 1000 A	0.202 % to 0.141 % 0.141 % to 0.063 % 0.063 % to 0.069 % 0.069 % to 0.63 % 0.636 % to 0.6 %	Using MPC Fluke 5080A by Direct Method Using MPC Fluke 5080A with 50 Turn current coil by Direct Method
3.	AC Voltage#	**45 Hz to 1 kHz** 10 mV to 30 mV 30 mV to 30 V 30 V to 300 V 300 V to 1000 V	 1.075 % to 0.613 % 0.613 % to 0.392 % 0.392 % to 0.169 % 0.169 % to 0.201 %	Using MPC Fluke 5080A by Direct Method
4.	AC Current#	45 Hz to 1 kHz 30 µA to 300 µA 300uA to 3.0 mA 3.0 mA to 20 A 20 A to 1000 A	3.130 % to 0.589 % 0.569 % to 0.313 % 0.313 % to 0.947 % 0.9 %	Using MPC Fluke 5080A by Direct Method Using MPC Fluke 5080A with 50 Turn current coil by Direct Method

Dheeraj Chawla
Convenor

Avijit Das
Program Director

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**Ajit Electronics Corporation, 1st Floor, Gurudas Patil Building, Manpada, Dombivali East, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2604**	**Page**	**2 of 4**
Validity	**16.03.2018 to 15.03.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Frequency#	100 Hz	0.03 %	Using MPC Fluke 5080A by Direct Method
6.	Resistance# Discrete (2 & 4 Wire)	1Ω to 190Ω 190Ω to 190kΩ 190 kΩ to 1MΩ 1MΩ to 19MΩ 19MΩ to 190MΩ 75.48μΩ 194.799 μΩ 748.3207 μΩ 14.8196 mΩ 10MΩ 100MΩ 1GΩ 10GΩ	1.362 % to 0.04 % 0.04 %to 0.049 % 0.049 % to 0.047 % 0.047 % to 0.174 % 0.174 % to 1.160 % 0.711 % 0.71 % 0.77 % 0.5 % 1 % 1 % 1 % 1 %	Using MPC Fluke 5080A by Direct Method Fix Value Resistance by Direct Method Decade Box by Direct Method
7.	Power Factor#	UPF to 0.1 (lead /lag)	0.036 PF	Using MPC Fluke 5080A By Direct Method
8.	AC Power# @ 50 Hz 1 Phase	100 mV to 1kV 0.5A to 20A 0.5W to 20kW	0.63% to 0.02%	Using MPC Fluke 5080A By Direct Method
9.	Voltage Ratio / Transformer Turns Ratio#	1 , 2,5, 10,20, 50, 100, 125, 140, 200.	1.15 %	Using Fix ratio Transformer By Direct Method

Dheeraj Chawla
Convenor

Avijit Das
Program Director

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**Ajit Electronics Corporation, 1st Floor, Gurudas Patil Building, Manpada, Dombivali East, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2604**	**Page**	**3 of 4**
Validity	**16.03.2018 to 15.03.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**MEASURE**			
1.	DC Voltage#	1mV to 100 mV 100 mV to 10 V 10 V to 1000 V	0.704 % to 0.018 % 0.018 % to 0.018 % 0.018 % to 0.02 %	Using 6½ DMM Fluke 8846 A. By Direct/comparison Method
2.	DC Current#	10 µA to 100 µA 100 µA to 1mA 1 mA to 10 mA 10 mA to 390 mA 390 mA to 10 A	1.28 % to 1.273 % 1.273 % to 0.064 % 0.064 % to 0.060 % 0.060 % to 0.06 % 0.06 % to 0.059 %	Using 6½ DMM Fluke 8846 A. By Direct/comparison Method
3.	AC Voltage#	45 Hz to 1 kHz 100 mV to 1V 1V to 10 V 10 V to 100 V 100 V to 1000 V	0.141 % to 0.197 % 0.197 % to 0.145 % 0.145 % to 0.140 % 0.140 % to 0.144 %	Using 6½ DMM Fluke 8846 A by Direct/comparison Method
4.	AC Current#	**45 Hz to 1 kHz** 100 µA to 1mA 1mA to 10 mA 10 mA to 100 mA 100 mA to 10A	 0.406 % to 0.394 % 0.394 % to 0.353 % 0.353 % to 0.349 % 0.349 % to 0.413 %	Using 6½ DMM Fluke 8846 A. by Direct/comparison Method
5.	Frequency#	10 Hz to 300kHz 300kHz to 1MHz	0.175 % to 0.015 % 0.015 % to 0.02 %	Using 6½ DMM Fluke 8846 A by Direct Method.
6.	AC High current#	**50Hz** 20A to 5000 A	 0.2 % to 0.77 %	Using 6½ DMM Fluke 8846 A & Standard CT by Direct Method
7.	Dc resistance # (2wire&4Wire)	10Ω to 100 Ω 100 Ω to 1kΩ 1kΩ to 100 kΩ	0.048 % to 0.012 % 0.012 % to 0.013 % 0.013 % to 0.012 %	Using 6½ DMM Fluke 8846 A. by Direct Method

Dheeraj Chawla
Convenor

Avijit Das
Program Director

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**Ajit Electronics Corporation, 1st Floor, Gurudas Patil Building, Manpada, Dombivali East, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2604**	**Page**	**4 of 4**
Validity	**16.03.2018 to 15.03.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	Time#	0.1 s to 999 s	0.002 s to 0.2 s	Using Time Interval Meter by Direct Method
9.	AC High Voltage#	2 Kv to 100kV	4.162 % to 3.3 %	Using HV divider with kv meter/HV probe by Direct Method
10.	DC High Voltage#	2 Kv to 100kV	4.162 % to 3.3 %	Using HV divider with kv meter / HV probe by Direct Method

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

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Dheeraj Chawla
Convenor

Avijit Das
Program Director