



**National Accreditation Board for  
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



**CERTIFICATE OF ACCREDITATION**

**ELECTROMETER CORPORATION**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

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

for its facilities at

**34, Main Patel Nagar Road, New Delhi**

in the field of

**CALIBRATION**

**Certificate Number** CC-2941

**Issue Date** 21/01/2019

**Valid Until** 20/01/2021

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](http://www.nabl-india.org))

Signed for and on behalf of NABL



89076970200020000734

*Anil Relia*

Anil Relia  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

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## SCOPE OF ACCREDITATION

Laboratory Electrometer Corporation, 34, Main Patel Nagar Road, New Delhi  
 Accreditation Standard ISO/IEC 17025: 2017  
 Certificate Number CC-2941 Page 1 of 13  
 Validity 21.01.2019 to 20.01.2021 Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>ELECTRO-TECHNICAL CALIBRATION</u></b>				
<b>I.</b>	<b>SOURCE</b>			
1.	DC Volts <sup>s</sup>	1 mV to 100 mV 100 mV to 10 V 10 V to 329 V 329 V to 990 V	1.15 % to 0.03 % 0.03 % to 0.015 % 0.015 % 0.015 %	Using 5080A Calibrator Make-Fluke by Direct Method
2.	DC Current <sup>s</sup>	10 $\mu$ A to 100 $\mu$ A 100 $\mu$ A to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 19 A	1.22 % to 0.2 % 0.2 % to 0.08 % 0.08 % to 0.20 % 0.20 % to 0.30 % 0.30 % to 0.60 %	Using 5080A Calibrator Make-Fluke by Direct Method
	DC High Current <sup>s</sup>	20 A to 990 A	0.60 % to 1.19 %	With 50 turn Coil
3.	Resistance <sup>s</sup>	1 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$ 100 M $\Omega$ to 190 M $\Omega$	1.13 % to 0.17 % 0.17 % to 0.05 % 0.05 % to 0.04 % 0.04 % to 0.11 % 0.11 % to 0.57 % 0.57 % to 1.19 %	Using 5080A Calibrator Make-Fluke by Direct Method
4.	AC Volts <sup>s</sup>	50 Hz 30 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 329 V 329 V to 990 V	0.60 % to 0.24 % 0.24 % to 0.16 % 0.16 % to 0.13 % 0.13 % to 0.17 % 0.17 % to 0.18 %	Using 5080A Calibrator Make-Fluke by Direct Method
5.	Frequency <sup>s</sup>	45 Hz to 1000 Hz	0.06 %	Using 5080A Calibrator Make-Fluke by Direct Method

Vishal Shukla  
Convenor

Battal Singh  
Program Manager



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6.	AC Current <sup>s</sup>	50 Hz 50 $\mu$ A to 1 mA 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 19 A	1.99 % to 0.36 % 0.36 % to 0.26 % 0.26 % to 0.27 % 0.27 % to 0.48 % 0.48 % to 0.72 %	Using 5080A Calibrator Make-Fluke by Direct Method
	AC High Current <sup>s</sup>	20 A to 990 A	0.72 % to 1.20 %	With 50 Turn Coil
7.	Phase Angle <sup>s</sup>	10° to 90°	0.58 % to 0.06 %	Using 5080A Calibrator Make-Fluke by Direct Method
8.	Temperature Indicator/Controller/Recorder <sup>s</sup> (Simulation)			
	RTD	(-) 200°C to 800°C	0.26 °C to 0.78 °C	Using Temperature Calibrator by Direct Method
9.	Temperature Indicator/Controller/Recorder <sup>s</sup> (Simulation)			
	K-Type	(-) 200 °C to 1350 °C	0.83 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	J-Type	(-) 200 °C to 1200 °C	0.38 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	E-Type	0 °C to 1000 °C	0.30 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	T-Type	(-) 200 °C to 400 °C	1.03 °C	Using 5080A Calibrator Make-Fluke by Direct Method

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	N-Type	(-) 200 °C to 1300 °C	1.20 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	R-Type	400 °C to 1700 °C	2.18 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	S-Type	400 °C to 1700 °C	2.18 °C	Using 5080A Calibrator Make-Fluke by Direct Method
	B-Type	1000 °C to 1800 °C	2.01 °C	Using 5080A Calibrator Make-Fluke by Direct Method
10.	Time <sup>s</sup>	100 s to 900 s 900 s to 9000 s	0.80 to 0.09 0.09 to 0.01	Using Digital Stop Watch by Direct Method
II.	<b>MEASURE</b>			
1.	DC Volts <sup>s</sup>	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 290 V 290 V to 990 V	0.48 % to 0.01 % 0.01 % 0.01 % 0.01 % 0.01 % 0.17 %	Using 6½ Multimeter Agilent by Direct Method
2.	DC Current <sup>s</sup>	1 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.28 % to 0.06 % 0.06 % to 0.13 % 0.13 % to 2.38 %	Using 6½ Multimeter Agilent by Direct Method
3.	Resistance <sup>s</sup>	2 $\Omega$ to 10 k $\Omega$ 10 k $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$	0.37 % to 0.013 % 0.013 % 0.013 % to 0.11 % 0.11 % to 0.92 %	Using 6½ Multimeter Agilent by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
4.	AC Volts <sup>s</sup>	50 Hz 1 mV to 100 mV 100 mV to 290 V 290 V to 990 V	4.65 % to 0.12 % 0.12 % to 0.16 % 0.16 % to 1.53 %	Using 6½ Multimeter Agilent by Direct Method
5.	AC Current <sup>s</sup>	50 Hz 1 mA to 100 Ma 100 mA to 1 A 1 A to 10 A	0.64 % to 0.73 % 0.73 % to 0.23 % 0.23 % to 2.38 %	Using 6½ Multimeter Agilent by Direct Method
6.	Frequency <sup>s</sup>	10 Hz to 295 kHz	0.08 % to 0.01 %	Using 6½ Multimeter Agilent by Direct Method
7.	Temperature <sup>s</sup> (Simulation) RTD	(-) 200 °C to 0 °C 0 °C to 850 °C	0.22 °C	Using 6½ Multimeter Make-Agilent Model:34970A by Direct Method
8.	Temperature <sup>s</sup> (Simulation) K Type	(-)200 °C to 0 °C 0 °C to 1350 °C	0.6 °C	Using 6½ Multimeter Make-Agilent Model:34970A by Direct Method
	J Type	(-) 200 °C to 0 °C 0 °C to 1200 °C	0.58 °C	
	E Type	(-)200 °C to 0 °C 0 °C to 1000 °C	0.24 °C 0.14 °C	
	N Type	(-) 200 °C to 1300 °C	0.24 °C	
	R Type	0 °C to 1700 °C	1.9 °C	
	S Type	0 °C to 1700 °C	1.22 °C	
	B Type	600 °C to 1800 °C	0.76 °C	
	T Type	(-) 200 °C to 400 °C	0.58 °C	

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<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
1.	Caliper <sup>s</sup> (Vernier/Dial/Digital) L.C.: 0.01 mm	0 to 300 mm 0 to 1000 mm	8.0 $\mu$ m 13.9 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
2.	Caliper <sup>s</sup> (Vernier/Dial) L.C.: 0.02 mm	0 to 300 mm 0 to 600 mm 0 to 1000 mm	15.00 $\mu$ m 15.00 $\mu$ m 17.00 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
3.	Depth Gauge <sup>s</sup> (Vernier/Dial/Digital) L.C.: 0.01 mm <sup>Φ</sup>	0 to 300 mm	8.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
4.	External Micrometer <sup>s</sup> L.C.: 0.001 mm	0 to 100 mm	1.70 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
	L.C.: 0.01 mm	0 to 200 mm >200 mm to 300 mm >300 mm to 400 mm >400 mm to 500 mm >500 mm to 600 mm	6.0 $\mu$ m 7.0 $\mu$ m 7.40 $\mu$ m 7.40 $\mu$ m 7.40 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
5.	Internal Micrometer <sup>s</sup> L.C.: 0.01 mm	50 mm to 600 mm	8.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks, Digimatic Dial Gauge+ Surface Plate

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6.	Depth Micrometer <sup>s</sup> L.C.: 0.01 mm	0 to 25 mm 0 to 100 mm 0 to 300 mm	5.0 $\mu$ m 5.0 $\mu$ m 6.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks Comparison Method
7.	Dial Gauge/ Dial Indicator <sup>s</sup> (Plunger Type) L.C.: 0.001 mm	0 to 25 mm	1.7 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks.
8.	Dial Gauge/ Dial Indicator <sup>s</sup> (Plunger Type) L.C.: 0.01 mm	0 to 50 mm	6.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
9.	Dial Gauge <sup>s</sup> (Lever Type) L.C.: 0.002 mm	0 to 0.2 mm	1.3 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
10.	Dial Gauge <sup>s</sup> (Lever Type) L.C.: 0.01 mm	0 to 1.0 mm	3.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks By Comparison Method
11.	Vernier Height Gauge <sup>s</sup> L.C.: 0.02 mm	0 to 600 mm	16.0 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
12.	Digimatic Height Gauge <sup>s</sup> L.C.: 0.01 mm	0 to 600 mm	10 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks
13.	Bore Gauge <sup>s</sup> (Transmission Mechanism) L.C.: 0.01 mm	0 to 2 mm	2.5 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
14.	Feeler Gauge <sup>s</sup>	0.05 mm to 1.0 mm	3.0 $\mu$ m	Using Digimatic Outside Micrometer As Per
15.	Setting Rod/ Length Bar <sup>s</sup>	25 mm to 200 mm 200 mm to 500 mm	2.5 $\mu$ m 5.9 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks, Digimatic Dial Gauge, Surface Plate By Comparison Method
16.	Measuring Scale/ Steel Scale <sup>s</sup>	0 to 1000 mm	59 $\mu$ m $\sqrt{2L}$ where L is in meter	Using Digital Linear Scale With Indicator
17.	Measuring Tape/ Steel Tape <sup>s</sup>	0 to 20 m	59 $\mu$ m $\sqrt{2L}$ where L is in meter	Using Digital Linear Scale With Indicator As Per IS: 1270
18.	Dial Thickness Gauge <sup>s</sup> L.C.: 0.001 mm	0 to 25 mm	1.0 $\mu$ m	Using "0" Grade Gauge Blocks By Comparison Method
19.	Groove Micrometer <sup>s</sup> L.C.: 0.001 mm	0 to 100 mm	1.9 $\mu$ m	Using "0" Grade Gauge Blocks By Comparison Method
20.	Plain Plug Gauge <sup>s</sup>	$\phi$ 1 mm to $\phi$ 25 mm	2.5 $\mu$ m	Using "0" Grade Gauge Blocks, Digimatic Dial Gauge+ Surface Plate. By Comparison Method
21.	Plain Plug Gauge <sup>s</sup>	$\phi$ 25 mm to $\phi$ 200 mm	2.61 $\mu$ m	Using "0" Grade Gauge Blocks, "0" Grade Long Gauge Blocks, Digimatic Dial Gauge, Surface Plate By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
22.	Internal Caliper <sup>§</sup> (Dial/Digital)	Up to 100 mm	8.0 $\mu$ m	Using "0" Grade Gauge Blocks By Comparison Method
23.	Snap Gauge <sup>§</sup>	5 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	2.3 $\mu$ m 3.4 $\mu$ m 8.4 $\mu$ m	Using "0" Grade Gauge Blocks + "0" Grade Long Gauge Blocks By Comparison Method
24.	Coating Thickness Gauge <sup>§</sup>	10 $\mu$ m to 718 $\mu$ m	4.1 $\mu$ m	Using Standard Foils By Comparison Method
<b>II. ACCELERATION AND SPEED</b>				
1.	RPM <sup>#</sup> (Non Contact)	60 rpm to 120 rpm >120 rpm to 900 rpm >900 rpm to 2700 rpm >2700 rpm to 6000 rpm >6000 rpm to 12000 rpm >12000 rpm to 18000 rpm  >18000 rpm to 24000 rpm >24000 rpm to 30000 rpm >30000 rpm to 60000 rpm	0.19 rpm 0.63 rpm 2.72 rpm 4.56 rpm 7.94 rpm 11.33 rpm  14.72 rpm 18.12 rpm 35.10 rpm	Using Tachometer By Comparison Method
<b>III. PRESSURE INDICATING DEVICES</b>				
1.	Hydraulic Pressure Pressure Gauge (Digital/Analog) Transmitter/ Transducer with Display of Pressure <sup>§</sup>	1.0 kg/cm <sup>2</sup> to 50.0 kg/cm <sup>2</sup> (g)  50 kg/cm <sup>2</sup> to 1000 kg/cm <sup>2</sup> (g)	0.07 % rdg.  0.12 % rdg.	Using Dead Weight Tester with Hydraulic Pump By Comparison as per DKD- R6-1

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2.	Pneumatic Pressure Pressure Gauge (Digital /Analog) Transmitter/ Transducer with Pressure Display/ Pressure Switch <sup>§</sup>	0 to 1333.2 mbar(g)	1.53 mbar	Using Mercury Manometer with Pneumatic Pump By Comparison as per DKD- R6-1
		(-)899 mbar to 0 mbar(g)	1.41 mbar	
3.	Pneumatic Pressure Pressure Gauge (Digital/Analog) Transmitter/ Transducer with Display of Pressure <sup>#</sup>	0 to 20 bar (g)	0.017 bar	Using Compound Digital Pressure Gauge With Pneumatic Hand Pump By Comparison as per DKD- R6-1
4.	Pneumatic Pressure Pressure Gauge (Digital/Analog) Transmitter/ Transducer with Display of Pressure <sup>#</sup>	(-) 1 to 0 bar (g)	0.77 mbar	Using Compound Digital Pressure Gauge With Pneumatic Hand Pump By Comparison as per DKD- R6-1,2
		0 to 2.0 bar (g)	0.012 bar	
5.	Hydraulic Pressure Pressure Gauge (Digital/Analog) Transmitter/ Transducer with Display of Pressure <sup>#</sup>	0 to 700 bar (g)	0.176 bar	Using Pressure Transducer with Pressure Display & Hydraulic Pump By Comparison as per DKD- R6-1
IV.	<b>VOLUME</b>			
1.	Volume Piston Pipette <sup>§</sup>	10 $\mu$ l to 100 $\mu$ l	0.075 $\mu$ l	Using Weights of Class E <sub>2</sub> & Precision Balance (220 g) L.C. 0.01 mg and Distilled Water As per ISO 8655
		>100 $\mu$ l to 1000 $\mu$ l	0.465 $\mu$ l	
		>1000 $\mu$ l to 10000 $\mu$ l	1.608 $\mu$ l	

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2.	Volume Transfer Pipette (Graduated/ Non Graduated) <sup>s</sup>	0.1 ml to 20 ml >20 ml to 100 ml	4.692 $\mu$ l 14.725 $\mu$ l	Using Weights of Class E <sub>2</sub> & Precision Balance (220 g) L.C. 0.01 mg and Distilled Water As per ISO 4787 Gravimetric Method
	Volume Burette/ Auto Burette/ Glass Syringe/Dispensette <sup>s</sup>	1 ml to 20 ml >20 ml to 100 ml	4.692 $\mu$ l 18.25 $\mu$ l	
	Volume Measuring Cylinder/Volumetric Flask <sup>s</sup>	1 ml to 100 ml 100 ml to 2000 ml	14.725 $\mu$ l 635.79 $\mu$ l	
<b>V.</b>	<b>WEIGHTS</b>			
1.	Mass <sup>s</sup> Weights of Class F2 & 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	0.01 mg 0.01 mg 0.01 mg 0.01 mg 0.015 mg 0.015 mg 0.015 mg 0.015 mg 0.015 mg 0.015 mg 0.015 mg 0.017 mg 0.022 mg 0.026 mg 0.033 mg 0.054 mg 0.101 mg	Using Standard Weights of Class E <sub>2</sub> & Precision Balance upto 200 g (d: 0.01 mg) By Substitution weighing Method (ABBA) As Per OIML R-111-1
	Weights of Accuracy Class M1 & Coarser <sup>s</sup>	500 g 1 kg 2 kg	9.44 mg 9.44 mg 9.44 mg	

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	Weights of Accuracy Class M2 & Coarser <sup>\$</sup>	5 kg 10 kg 20 kg	941.87 mg 941.87 mg 948.55 mg	Using Standard Weights of Class F <sub>2</sub> & Precision Balance up to 31 kg (d: 1g) By Substitution Weighing Method (ABBA) As Per OIML R-111-1
<b>VI.</b>	<b>WEIGHING SCALE AND BALANCE</b>			
1.	Weighing / Balance/ Weighing Scale <sup>#</sup>	0 to 200 g Readability 0.1 mg & Coarser	0.39 mg	Using Standard Weights of Class E <sub>2</sub> as per OIML R-76-1
		0 to 1 kg Readability 1 mg & Coarser	3.24 mg	
		0 to 3 kg Readability 10 mg & Coarser	0.16 g	
		0 to 30 kg Readability 1 g & Coarser	15.9 g	Using Standard Weight of Class F <sub>2</sub> as per OIML R-76-1

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	Glass Thermometer <sup>§</sup>	(-)30 °C to 200 °C	0.29 °C	Using D.A.S.U, PRT (PT 100)-4 Wire (Isotech Make) By Comparison Method
2.	RTD, Thermocouple With or Without Digital Display/ Indicator & Dial Thermometer <sup>§</sup>	(-)30 °C to 50 °C	0.25 °C	Using D.A.S.U, PRT (PT 100)-4 Wire (Isotech Make) By Comparison Method
		>50 °C to 200 °C	0.28 °C	
		>300 °C to 400 °C	1.86 °C	
		> 400 °C to 600 °C	2.75 °C	
3.	Thermocouple With Digital Display/Indicator, Without Digital Display/Indicator <sup>§</sup>	>600 °C to 800 °C	2.55 °C	Using D.A.S.U R-Type thermocouple By Comparison Method
		>800 °C to 1000 °C	3.87 °C	
4.	Temperature Calibration of Thermal Chamber (Deep Freezer, Refrigerator, Incubator (for Non-Medical Applications),	(-) 40 °C to 250 °C	0.59 °C	Using D.A.S.U (Agilent Make) , Pt - 100 by Comparison Method

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	Air Oven, Autoclave (for Non-Medical Applications), Temp. Bath, Muffle Furnace, Electrical Furnace, etc.) *	>250 °C to 500 °C >500 °C to 1000 °C >1000 °C to 1200 °C	1.46 °C 2.50 °C 3.58 °C	Using D.A.S.U (Agilent make) + R-Type Thermocouple (by Comparison Method)

\* Measurement Capability is expressed as an uncertainty ( $\pm$ ) 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.

o Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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