

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.-5, Gali No.-4, Khasra No.38/16, Block-R, Rama Vihar,
New Delhi-110081, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Calibration

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- AC Current (Measure Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	AC Current (50Hz to 1kHz)	Using by direct method by 8846A (fluke)	0.1 mA to 1 mA	0.28 % to 0.25 %
2.	AC Current (50Hz to 1kHz)	Using by direct method by 8846A (fluke)	1 mA to 10 A	0.16 % to 0.26 %
3.	AC High Voltage (50Hz)	Direct method by using DMM/ 287& HV probe	1 kV to 28 kV	8.5 to 6.2%
4.	AC Resistance (1kHz)	Direct method by using LCR meter	1 ohm to 10 k ohm	0.3 % to 0.43 %
5.	AC Voltage (50Hz to 1kHz)	Using by direct method by 8846A (fluke)	1 mV to 10 mV	4.73 % to 0.52 %
6.	AC Voltage (50Hz to 1kHz)	Using by direct method by 8846A (fluke)	1 V to 1000 V	0.12 %
7.	AC Voltage (50Hz to 1kHz)	Using by direct method by 8846A (fluke)	10 mV to 1 V	0.52 % to 0.1 %
8.	Active Energy (50Hz/3 PHASE/0.5PF to 1PF, LEAD & LAG) (100V - 240V & 0.5A - 250A)	Comparison method by using energy logger	10 Wh to 12 kWh	3.1%

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



1 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- AC Current (Measure Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
9.	Inductance (1kHz)	Direct method by using LCR meter	0.1 mH to 10 H	0.35 % to 1.14 %
10.	Capacitance @ 1 kHz	Using decade capacitance box & MFC by direct	100 pF to 100 nF	3.6%



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- DC Current				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	DC Current	Using by direct method by 8846A (FLUKE)	0.001 mA to 1 mA	0.09%
2.	DC Current	Using by direct method by 8846A (FLUKE)	1 mA to 1 A	0.09 % to 0.11 %
3.	DC Current	Using by direct method by 8846A (FLUKE)	1 A to 10 A	0.11 % to 0.19 %
4.	DC Resistance	Using by direct method by 8846A (FLUKE)	1 k ohm to 100 M ohm	0.03 % to 0.94 %
5.	DC Resistance	Using by direct method by 8846A (FLUKE)	1 ohm to 1 k ohm	0.36 % to 0.03 %
6.	DC Voltage	Using by direct method by 8846A (FLUKE)	1 mV to 100 mV	0.41 % to 0.03 %
7.	DC Voltage	Using by direct method by 8846A (FLUKE)	10 V to 1000 V	0.03 % to 0.006 %
8.	DC Voltage	Using by direct method by 8846A (FLUKE)	100 mV to 10 V	0.03 %
9.	DC Voltage	Direct method by using DMM/ 287& HV PROBE	1 kV to 40 kV	7.4 % to 3.1 %
10.	DC Current	Using by direct method by 8846A (FLUKE)	0.01 mA to 1 mA	0.6 % to 0.09 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



3 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- Temperature Simulation				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	RTD Temperature	Direct/Simulation method by using 6.5 DMM	-200 °C to 600 °C	0.3°C
2.	Thermocouple (TYPE-B)	Direct/Simulation method by Using calibrator & Indicator	600°C to 1800 °C	0.52°C
3.	Thermocouple (TYPE-E)	Direct/Simulation method by Using calibrator & Indicator	-200°C to 1000 °C	0.36°C
4.	Thermocouple (TYPE-J)	Direct/Simulation method by Using calibrator & Indicator	-200°C to 1050 °C	0.98°C
5.	Thermocouple (TYPE-K)	Direct/Simulation method by Using calibrator & Indicator	-200°C to 1350 °C	0.46°C
6.	Thermocouple (TYPE-N)	Direct/Simulation method by Using calibrator & Indicator	-200°C to 1300 °C	0.36°C
7.	Thermocouple (TYPE-R)	Direct/Simulation method by Using calibrator & Indicator	0°C to 1750 °C	0.65°C
8.	Thermocouple (TYPE-S)	Direct/Simulation method by Using calibrator & Indicator	0°C to 1750 °C	0.54°C
9.	Thermocouple (TYPE-T)	Direct/Simulation method by Using calibrator & Indicator	-200°C to 400 °C	0.72°C



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- AC Current (Source Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	AC Current @ 50 Hz	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	3.13 % to 3.3 %
2.	AC Current @ 50 Hz to 1 kHz	Using multifunction calibrator with current coil by direct method	0.03 mA to 30 mA	1.12 % to 0.12 %
3.	AC Current @ 50 Hz to 1 kHz	Using multifunction calibrator with current coil by direct method	10 A to 20 A	0.095 % to 3.13 %
4.	AC current @ 50 Hz to 1 kHz	Using multifunction calibrator with current coil by direct method	30 mA to 10 A	1.12 % to 0.095 %
5.	AC power @ 50 Hz (10, 0.5 PF to 1 PF lead & lag, 15 V to 600 V, 0.1 A to 20 A)	Using multifunction calibrator by direct method	1.5 W to 12 kW	0.52 % to 1.17%
6.	AC resistance @ 1 KHz	Using standard resistance box by direct method	1 ohm to 10 kohm	0.61%
7.	AC voltage @ 50 Hz to 1 kHz	Using multifunction calibrator by direct method	120 mV to 300 mV	0.14 % to 0.067 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



5 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- AC Current (Source Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
8.	AC voltage @ 50 Hz to 1 kHz	Using multifunction calibrator by direct method	3 V to 1000 V	0.038 % to 0.068 %
9.	AC voltage @ 50 Hz to 1 kHz	Using multifunction calibrator by direct method	300 mV to 3 V	0.067 % to 0.038 %
10.	Capacitance @ 1 kHz	Using decade capacitance box & MFC by direct	100 pF to 100 nF	2.21 % to 1.10 %
11.	Frequency	Using multifunction calibrator by direct method	10 Hz to 1 MHz	0.015 % to 0.0029 %
12.	Inductance @ 1 kHz	Using decade inductance box by direct method	0.1 mH to 10 H	1.17%
13.	Power factor @ 50 Hz (10, 240V, 2A, lead & lag)	Using multifunction calibrator by direct method	0.2 PF to 1 PF	0.0062 PF to 0.0043 PF



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

*Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India*

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- DC Current (Source Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	DC Current	Using multifunction calibrator by direct method	0.01 mA to 30 mA	0.6 % to 0.02%
2.	DC Current	Using multifunction calibrator by direct method	10 A to 20 A	0.074 % to 1.5 %
3.	DC Current	Using multifunction calibrator by direct method	20 A to 1000 A	1.5 % to 0.65 %
4.	DC Current	Using multifunction calibrator by direct method	30 mA to 10 A	0.02 % to 0.074 %
5.	DC Resistance	Using multifunction calibrator by direct method	1 Mohm to 1 ohm	0.92 %
6.	DC Resistance	Using multifunction calibrator by direct method	1 ohm to 300 ohm	0.92 % to 0.017 %
7.	DC Resistance	Using standard resistance box by direct method	300 Mohm to 10 Gohm	0.92 % to 3.5 %
8.	DC Resistance	Using multifunction calibrator by direct method	300 ohm to 300 Mohm	0.12 % to 0.74 %
9.	DC voltage	Using multifunction calibrator by direct method	1 mV to 300 mV	0.38 % to 0.0082 %
10.	DC Voltage	Using multifunction calibrator by direct method	3 V to 1000 V	0.0066 %
11.	DC Voltage	Using multifunction calibrator by direct method	300 mV to 3V	0.0082 % 0.006 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



7 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- Temperature Simulation (Source Mode)				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	Thermocouple (TYPE-B)	Direct/Simulation method by using calibrator & indicator	600 °C to 1800 °C	0.50°C
2.	Thermocouple (TYPE-E)	Direct/Simulation method by using calibrator & indicator	-200 °C to 1000 °C	0.35°C
3.	Thermocouple (TYPE-J)	Direct/Simulation method by using calibrator & indicator	-200 °C to 1050 °C	0.32°C
4.	Thermocouple (TYPE-K)	Direct/Simulation method by using calibrator & indicator	-200 °C to 1350 °C	0.46°C
5.	Thermocouple (TYPE-N)	Direct/Simulation method by using calibrator & indicator	-200 °C to 1300 °C	0.30°C
6.	Thermocouple (TYPE-R)	Direct/Simulation method by using calibrator & indicator	0 °C to 1750 °C	0.65°C
7.	Thermocouple (TYPE-S)	Direct/Simulation method by using calibrator & indicator	0 °C to 1750 °C	0.54°C
8.	Thermocouple (TYPE-T)	Direct/Simulation method by using calibrator & indicator	-200 °C to 400 °C	0.70°C
9.	RTD Temperature	Direct/Simulation method by using calibrator & indicator	-200 °C to 800 °C	0.27°C

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



8 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Electro-Technical Discipline- Time & Frequency				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	Timer/ Stop Watch (Digital/ Analog)	Using time calibrator/digital time interval meter by comparison method	1 Sec to 60 Sec	0.5 s
2.	Timer/ Stop Watch (Digital/ Analog)	Using time calibrator/digital time interval meter by comparison method	60 Sec to 3600 Sec	0.5 s to 2.1 s
3.	Frequency	Direct method by using calibrator	10 Hz to 1000 kHz	0.1 % to 0.013 %



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Acoustic				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
Permanent Facility				
1.	Sound Level Meter @ 1kHz	Using sound level calibrator by direct method	114 dB	1.46 dB
2.	Sound Level Meter @ 1kHz	Using sound level calibrator by direct method	94 dB	1.46 dB



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

*Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India*

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Pressure				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	Hydraulic Pressure-Dial/Digital Pressure Gauge	Digital Pressure Gauge using Pressure Comparator by Comparison Method as Per DKD-R6-1	0 bar to 70 bar	0.10 bar
2.	Hydraulic Pressure-Dial/Digital Pressure Gauge	Digital Pressure Gauge using Pressure Comparator by Comparison Method as Per DKD-R6-1	70 bar to 700 bar	0.93 bar
3.	Pneumatic Pressure-Dial/Digital Vacuum Gauge	Digital Pressure Gauge using Pressure Comparator by Comparison Method as Per DKD-R6-1	-0.95 bar to 0 bar	0.006 bar
4.	Pneumatic Pressure - Dial/digital Pressure Gauge	Digital Pressure Gauge using Pressure Comparator by Comparison Method as Per DKD-R6-1	0 bar to 30 bar	0.07 bar



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Force				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
Site Facility				
1.	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Load Cell Instrument Class-1 of UTM. based on IS 1828 (part 1) 2022: ISO 7500-1: 2018	2 kN to 50 kN	0.88%
2.	Uniaxial Testing Machine, Tensile Testing Machine - Tension Mode	Using Load Cell Instrument Class-1 of UTM. based on IS 1828 (part 1) 2022: ISO 7500-1 : 2018	2 kN to 50 kN	0.88%
3.	Uniaxial Testing Machine, Compression Testing Machine - Compression Mode	Using Load Cell Instrument Class-1 of UTM. based on IS 1828 (part 1) 2022: ISO 7500-1: 2018	50 N to 2500 N	1.58 %
4.	Uniaxial Testing Machine, Tensile Testing Machine - Tension Mode	Using Load Cell Instrument Class-1 of UTM. based on IS 1828 (part 1) 2022: ISO 7500-1: 2018	50 N to 2500 N	1.58 %



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Force				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
5.	Uniaxial Testing Machine, Compression Testing Machine, Tensile Testing Machine, - Compression Mode / Tension Mode	Using Load Cell Instrument Class-1 of UTM. based on IS 1828 (part 1) 2022: ISO 7500-1: 2018	1 N to 50 N	1.58 %



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Dimension				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
Permanent Facility				
1.	Cube Mould	Using Digital Caliper by Direct Method	70.6 X 70.6 X 70.6	21.53 μ m
2.	Cube Mould	Using Digital Caliper by Direct Method	150 X 150 X 150	21.53 μ m
3.	Digital Caliper (L.C.0.01 mm)	Using Gauge Block Set and Caliper Checker by Direct Method	0.5 mm to 150 mm	12 μ m
4.	Digital Caliper (L.C.0.01 mm)	Using Gauge Block Set and Caliper Checker by Direct Method	0.5 mm to 300 mm	14 μ m
5.	Elongation Gauge	Using Digital Caliper by Direct Method	6.3 mm to 50 mm	15.97 μ m
6.	External Micrometer (L.C: 0.001 mm)	Using Gauge Block Set by Direct Method	0 mm to 25 mm	4.5 μ m
7.	External Micrometer (L.C: 0.001 mm)	Using Gauge Block Set by Direct Method	25 mm to 50 mm	6.0 μ m



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Dimension				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
8.	Feeler Gauge	Using Digital External Micrometer	0.03 mm to 1 mm	2.5 μ m
9.	Flankiness Gauge	Using Digital Caliper by Direct Method	6.3 mm to 50 mm	15.97 μ m
10.	Height Gauge (L.C.:0.01 mm)	Using Gauge Block Set, Caliper Checker and Surface Plate by Direct Method	0 mm to 300 mm	10.86 μ m
11.	Test Sieve Aperture Size	Using Digital Caliper by Direct Method	4.75 mm to 80 mm	16.7 μ m
12.	Test Sieve Aperture Size	Using Profile Projector by Direct Method	355 μ m to 4750 μ m	6.7 μ m



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Volume				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
Permanent Facility				
1.	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Burette)	Using electronic weighing balance (readability 0.0001 g) as per ISO 4787:2021 by comparison method	1 ml to 100 ml	4.7 μ l
2.	Micropipette (Piston operated)	Using electronic weighing balance (readability 0.0001g) and distilled water of known density as per gravimetric method, ISO 8655-6:2022	200 μ l to 1000 μ l	5.0 μ l



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	Digital Weighing Balance (Readability 0.1 g) Class II	Using F1 class standard weights as per OIML R 76-1: 2006	Upto to 10 kg	1.1 g
2.	Digital Weighing Balance (Readability 5 g) Class III	Using F2 class standard weights as per OIML R76-1: 2006	Upto to 50 kg	14 g
3.	Digital Weighing Balance (Readability 0.0001 g) Class I	Using E2 class standard weights as per OIML R 76-1: 2006	1 mg to 200 g	0.8 mg
4.	Weights (F1 class & coarser)	Using E2 class standard weights & electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1: 2004	200 g	0.3 mg
5.	Weights (F2 class & coarser)	Using E2 class standard weights & electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1: 2004	10 g	0.2 mg

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



17 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
6.	Weights (F2 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1: 2004	100 g	0.3 mg
7.	Weights (F2 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	20 g	0.2 mg
8.	Weights (F2 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIM LR-111-1: 2004	50 g	0.2 mg
9.	Weights (F2 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA	5 g	0.2 mg

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



18 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
		Cycle) as per OIML R-111-1:2004		
10.	Weights (M1 class & coarser)	Using E2 class standard weights & electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	2 mg	0.1 mg
11.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	1 mg	0.1 mg
12.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	2 g	0.2 mg

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



19 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
13.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1: 2004	1 g	0.2 mg
14.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIMLR-111-1:2004	10 mg	0.1 mg
15.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIMLR-111-1:2004	100 mg	0.2 mg
16.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	20 mg	0.1 mg

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



20 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
17.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	50 mg	0.1 mg
18.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	5 mg	0.1 mg
19.	Weights (M1 class & coarser)	Using E2 class standard weights & Electronic balance (Readability 0.0001g) by substitution method (ABBA Cycle) as per OIMLR-111-1:2004	200 mg	0.2 mg
20.	Weights (M2 class & coarser)	Using F1 class standard weights & Electronic Weighing balance (Readability 0.1g) by substitution method (ABBA Cycle) as per OIMLR-111-1:2004	5 kg	0.2 g

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



21 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Mass				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
21.	Weights (M3 class)	Using F2 class standard weights & Electronic Weighing balance (Readability 0.1g) by substitution method (ABBA Cycle) as per OIML R-111-1:2004	10 kg	3.4 g
22.	Weights (M3 class)	Using E2 class standard weights & balance (Readability: 0.1 g) by substitution method (ABBA Cycle) as per OIML R 111-1: 2004	500 g	0.1 g
23.	Weights (M3 class)	Using F1 class standard weights & balance (Readability: 0.1 g) by substitution method (ABBA Cycle) as per OIML R 111-1: 2004	2 Kg	0.1 g
24.	Weights (M3 class & coarser)	Using F1 class standard weights & balance (Readability: 0.1 g) by substitution method (ABBA Cycle) as per OIML R 111-1: 2004	1 kg	0.1 g



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Acceleration & Speed				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent Laboratory and At-Site				
1.	RPM Meter, Stroboscope, Digital Tachometer, Centrifuge (Non-Contact Type) L.C: 0.1 RPM	Using Digital Tachometer by Comparison Method	50 RPM to 1000 RPM	1.65 %
2.	RPM Meter, Stroboscope, Digital Tachometer, Centrifuge (Non-Contact Type) L.C: 1 RPM	Using Digital Tachometer by Comparison method	1000 RPM to 35000 RPM	3.59 %



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Thermal Discipline- Temperature & Humidity				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent Laboratory and At-Site				
1.	Humidity Chamber/Environmental Chamber@25 °C	Temperature and RH Sensor with indicator & source thermo hygrometer for single position by comparison method	35 %RH to 95 %RH	1.43%RH
2.	Humidity Chamber/Environmental Chamber@50%RH	Temperature and RH Sensor with indicator & source thermo hygrometer for single position by comparison method	20°C to 100 °C	0.94°C
3.	Digital /Analog Thermo hygrometer@25°C	Temperature and RH Sensor with indicator & source comparison method	35 %RH to 95 %RH	1.43%RH
4.	Digital /Analog Thermo hygrometer@50%RH	Temperature and RH Sensor with Indicator & Source comparison method	20°C to 100 °C	0.94°C
5.	IR Thermometer, IR Gun, Radiation Pyrometer, Thermal Imager emissivity 0.95	Using Blackbody Source and Infrared Thermometer by Comparison Method	-15 C to 135 °C	2.66°C

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



24 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Thermal Discipline- Temperature & Humidity				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
6.	Liquid in Glass Thermometer, Thermometers, Temperature Gauges	Using 4 wire RTD sensor with temperature indicator & micro liquid bath by comparison method	-30 °C to 110 °C	0.61 °C
7.	RTD with Temperature Indicators, Data Logger/ Scanner,	Using 4 wire RTD sensor with temperature indicator & micro liquid bath by comparison method	-30 °C to 100 °C	0.31 °C
8.	Temperature Indicator with Sensor of Deep Freezer	Using 4 wire RTD sensor with Temperature Indicator by Comparison Method (At Single Position)	-20 °C to 10 °C	0.9 °C
9.	Temperature Indicator with Sensor of Dry Block, Muffle Furnace	Using R Type thermocouple with temperature indicator by comparison method (At Single Position)	50 °C to 1000 °C	2.1 °C
10.	Temperature Indicator with Sensor of Incubator (Non-Medical Use)	Using 4 wire RTD sensor with Temperature Indicator by Comparison Method (At Single Position)	11 °C to 60 °C	0.91 °C

This is annexure to 'Certificate of Accreditation' and does not require any signature.

www.qai.org.in



25 of 27

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Thermal Discipline- Temperature & Humidity				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
11.	Temperature Indicator with Sensor of Water Bath, Liquid Bath, Hot Air Oven, Autoclave	Using 4 wire RTD sensor with temperature indicator by comparison method (At Single Position)	20°C to 250 °C	0.80°C
12.	Thermocouple with Temperature Indicators, Data Logger with Sensor/ Scanner, Digital Thermometers	Using R type thermocouple with temperature indicator & metrology well by comparison method	100 °C to 650 °C	1.9 °C
13.	Thermocouple with Temperature Indicators, Data Logger/ Scanner, Digital Thermometers	Using R type thermocouple with temperature indicator & portable furnace by comparison calibration	>650 °C to 900 °C	2.1 °C



Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Aaditech Test & Calibration Lab LLP

Plot No.5, Gali No.4, Khasra No. 38/16, Block- R, Rama Vihar
New Delhi-110081, India

QAI/CIA/CL/2025/0005

Valid from: 06 October 2025

Valid until: 05 October 2027

Accreditation Standard: ISO/IEC 17025:2017

Fluid Flow Discipline- Flow Measuring Devices				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent and Site Facility				
1.	Flow Meter Flow Rate (Medium Air) (Respirable Dust Sampler/ High Volume Sampler/ PUF Sampler)	Using orifice top loading calibrator by comparison method as per IS 5182 (P-4) 1999, IS 5182 (P-23) 2013]	0.6 m ³ /min to 1.4 m ³ /min	6.3 %
2.	Rota meter, Flow Indicating device Flow Rate (Medium Air)	Using digital flow meter by comparison method	1.0 LPM to 30 LPM	6.6 %

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.

