

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



CERTIFICATE OF ACCREDITATION (AS PER ISO/IEC 17025:2017)

This is to attest that

ABHIYANTA CALIBRATION LAB & RESEARCH CENTRE (OPC) PRIVATE LIMITED

Plot no. 8, Tilak Ram Colony, Loni Border, Behta
Hazipur, Ghaziabad, U. P - 201102, India.

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for calibration laboratories.

Certificate Number: CL-142

Issue Date: 03.02.2025

Valid Until: 02.02.2027

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www.fdasindia.org).

A handwritten signature in blue ink, appearing to read 'D. S. Tewari', with a horizontal line underneath.

DEVI SARAN TEWARI
Director

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 142)

Laboratory Name: Abhiyanta Calibration Lab & Research Centre (OPC) Private Limited
Plot no. 8, Tilak Ram Colony, Loni Border, Behta
Hazipur, Ghaziabad, U. P. - 201102, India

Validity: 03.02.2025 to 02.02.2027 **Amended on** N/A

Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Pressure & Vacuum				
1	Hydraulic Pressure- Dial/Digital Pressure Gauge and Calibrator, Pressure Transmitters & Pressure Switches	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	0 bar to 700 bar	± 1.37 bar
2	Pneumatic Pressure- Dial/Digital Pressure Gauge and Calibrator, Pressure Transmitters & Pressure Switches	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	0 bar to 30 bar	± 0.056 bar
3	Vacuum-Dial/Digital Pressure Gauge/Indicators and Calibrators	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	(-) 0.95 bar to 0 bar	± 0.009 bar


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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Pressure & Vacuum				
1	Hydraulic Pressure-Dial/Digital Pressure Gauge and Calibrator, Pressure Transmitters & Pressure Switches	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	0 bar to 700 bar	± 1.37 bar
2	Pneumatic Pressure-Dial/Digital Pressure Gauge and Calibrator, Pressure Transmitters & Pressure Switches	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	0 bar to 30 bar	± 0.056 bar
3	Vaccum-Dial/Digital Pressure Gauge/Indicators and Calibrators	Using Digital Pressure Gauge with Comparator by comparison method as per DKD-R-6-1: 2016	(-) 0.95 bar to 0 bar	± 0.009 bar

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Mechanical Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Mass & Volume				
1	Digital Weighing Balance, Analytical / Precision, Readability: 0.1 mg (For Class I and Coarser)	Using Standard Weight of Accuracy Class E1 as per OIML R-76-1: 2006	0 to 200 g	± 0.11 mg
2	Digital Weighing Balance, Precision, Readability: 1 mg (For Class II and Coarser)	Using Standard Weight of Accuracy Class E1 as per OIML R-76-1: 2006	>200 g to 500 g	± 2.0 mg
3	Digital Weighing Balance, Precision, Readability: 10 mg (For Class II and Coarser)	Using Standard Weight of Accuracy Class F1 as per OIML R-76-1: 2006	>500 g to 3 kg	± 20 mg
4	Digital Weighing Balance, Readability: 0.1 g (For Class III and Coarser)	Using Standard Weight of Accuracy Class F1 as per OIML R-76-1: 2006	>3 kg to 20 Kg	± 0.10 g
5	Digital Weighing Balance, Readability: 1 g (For Class III and Coarser)	Using Standard Weight of Accuracy Class F1 as per OIML R-76-1: 2006	>20 kg to 40 Kg	± 4.17 g

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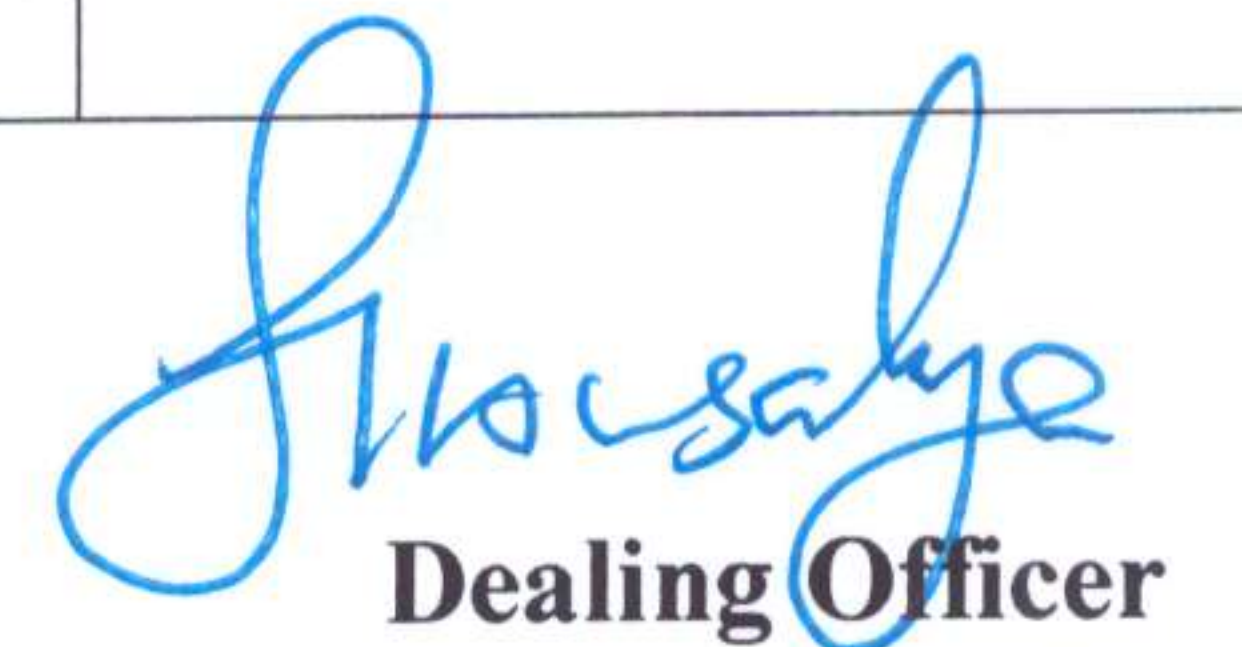
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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Dimension				
1	Calipers (Dig. / Dial /Vernier Caliper) L.C.: 0.005 mm or coarser	Using Caliper Checker & Gauge Block Set by Comparison method as per IS 16491 Part 1: 2024	0.5 to 300 mm	$\pm 8.0 \mu\text{m}$
2	Calipers (Dig. / Dial /Vernier Caliper), L.C.: 0.005 mm or coarser	Using Caliper Checker & Gauge Block Set by Comparison method as per IS 16491 Part 1: 2024	300 to 600 mm	$\pm 12.68 \mu\text{m}$
3	Cube Mould	Using Digital Caliper by Comparison method as per IS:10086: 2021	50 x 50 x 50 mm to 150 x 150 x 150 mm	$\pm 100.56 \mu\text{m}$
4	Plunger Type Gauge (Analog/Digital) L.C.: 0.001 mm or coarser	Using Gauge Block Set & Comparator Stand by Comparison method as per IS 2092: 2019	0.01 to 50 mm	$\pm 6.07 \mu\text{m}$
5	Dial Gauge (Lever Type) L.C.: 0.001 mm	Using Block Set & Comparator Stand by Comparison method as per IS 2092: 2019	0.01 mm to 1 mm	$\pm 1.19 \mu\text{m}$
6	Dial Thickness Gauge L.C. 0.01 mm	Using Block Set & Accessories by Comparison method as per IS 2092: 2019	0.01 mm to 100 mm	$\pm 7.57 \mu\text{m}$
7	External Micrometer L.C.: 0.001 mm	Using Slip Gauge, Slip Gauge Accessories by Comparison method as per IS 3179: 2024	0.5 to 150 mm	$\pm 2.35 \mu\text{m}$
8	Feeler Gauge L.C.: 0.01 mm	Using Digital Micrometer by Direct method as per IS 3179: 2024	0.03 to 1 mm	$\pm 1.80 \mu\text{m}$


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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
9	Flakiness & Elongation Gauge	Using Digital Caliper by Direct Method As per IS 2386 (Part 1): 2021	Thickness Gauge: 6.3 to 63 mm, Length Gauge: 10 to 50 mm	$\pm 28.29 \mu\text{m}$
10	Height Gauge L.C.: 0.01 mm	Using Slip Gauge, Dial Test Indicator, Caliper Checker Surface Plate by Comparison method IS 2921: 2021	0.5 to 600 mm	$\pm 13.47 \mu\text{m}$
11	Test Sieves	Using Digital Caliper Checker by Comparison method as per IS: 460 (Part 1, 2 & 3): 2020	4 mm to 150 mm	$\pm 56.0 \mu\text{m}$
12	Travelling Microscope L.C.: 0.01 mm	Using Glass Scale by Comparison method as per JIS B 7184: 2021, ISO 10936-1: 2017)	0.1 mm to 1mm	$\pm 6.14 \mu\text{m}$
13	Travelling Microscope L.C.: 0.01 mm	Using Glass Scale by Comparison method as per JIS B 7184: 2021, ISO 10936-1: 2017	1 mm to 200 mm	$\pm 0.50 \mu\text{m}$
14	Snap Gauge	Using Gauge Block Set by Comparison method as per IS 8023: 2015 & IS: 7606: 2022	5 mm to 100 mm	$\pm 1.44 \mu\text{m}$
15	Steel Scale L.C.: 0.5 / 1 mm	Using Tape Calibrator by Comparison method as per IS: 1481: 2024	1 to 1000 mm	$\pm 0.5 \text{ mm}$
16	Measuring Tape L.C.: 0.5 / 1 mm	Using Tape Calibrator by Comparison method as per IS 1269 Part 1 & 2: 1997	1 to 50 meter	$\pm 0.5 \text{ mm}$


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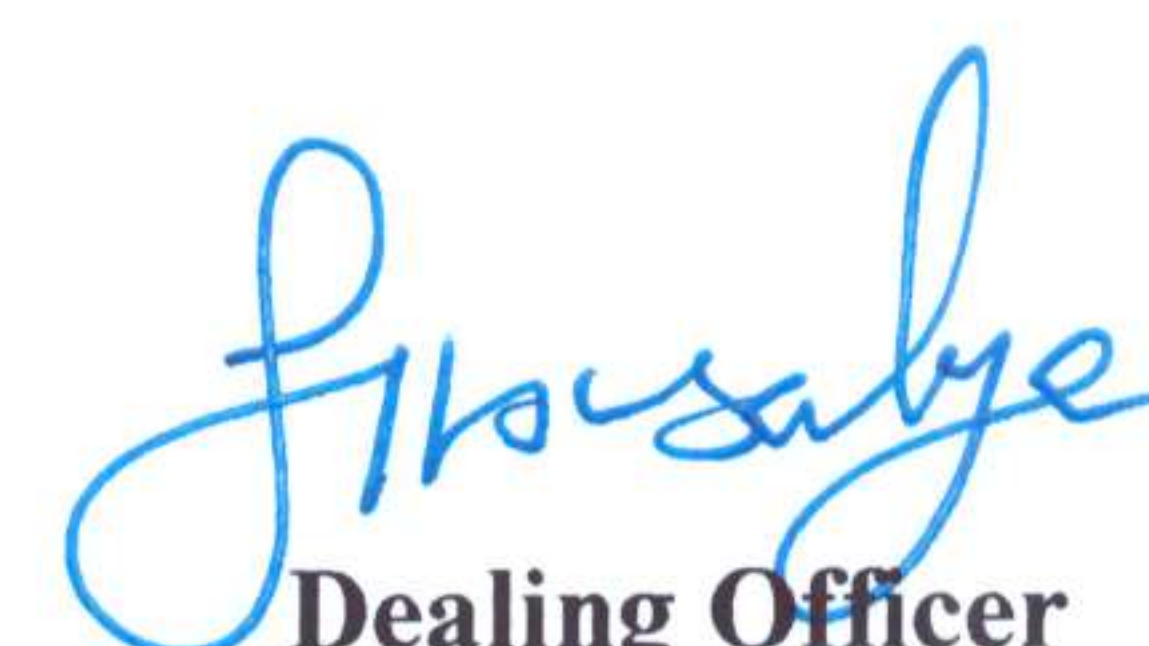
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Thermal Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Temperature & Humidity				
1	Liquid in Glass Thermometer, Dial Thermometer.	Using PT100X1, Simplex, 4 Wire RTD with Indicator & Calsys - 40/50 Liquid Bath by Comparison method as per IS: 6274: 1971	(-)40°C to 250 °C	0.65°C
2	RTD / Thermocouple with Indicator, Digital Thermometer, Temp. Indicator with Sensor, Temp. Transmitter, Temp. Data Logger with Sensor, Temperature Gauge.	Using PT100X1, Simplex, 4 Wire RTD with Indicator & Calsys -40/50 & Calsys 250 Liquid Bath by Comparison method as per IS: 6274: 1971	(-)40°C to 50°C 50°C to 250°C	0.2°C 0.3°C
3	Thermo- Hygrometer/Humidity Meter/Digital Hygrometer /Data Logger / Humidity Indicator with Sensor.	Using Digital Thermo Hygrometer & Humidity Chamber by Comparison Method as per DKD-R-5-7: 2019	30 % RH to 90 % RH @ 25 °C	2.2% RH
4	Thermo- Hygrometer/Humidity Meter/Digital Hygrometer /Data Logger / Humidity Indicator with Sensor.	Using Digital Thermo- Hygrometer & RTD With Indicator, Humidity Chamber by Comparison Method as per DKD-R-5-7: 2019	20°C to 50 °C @ 50% RH	0.63°C


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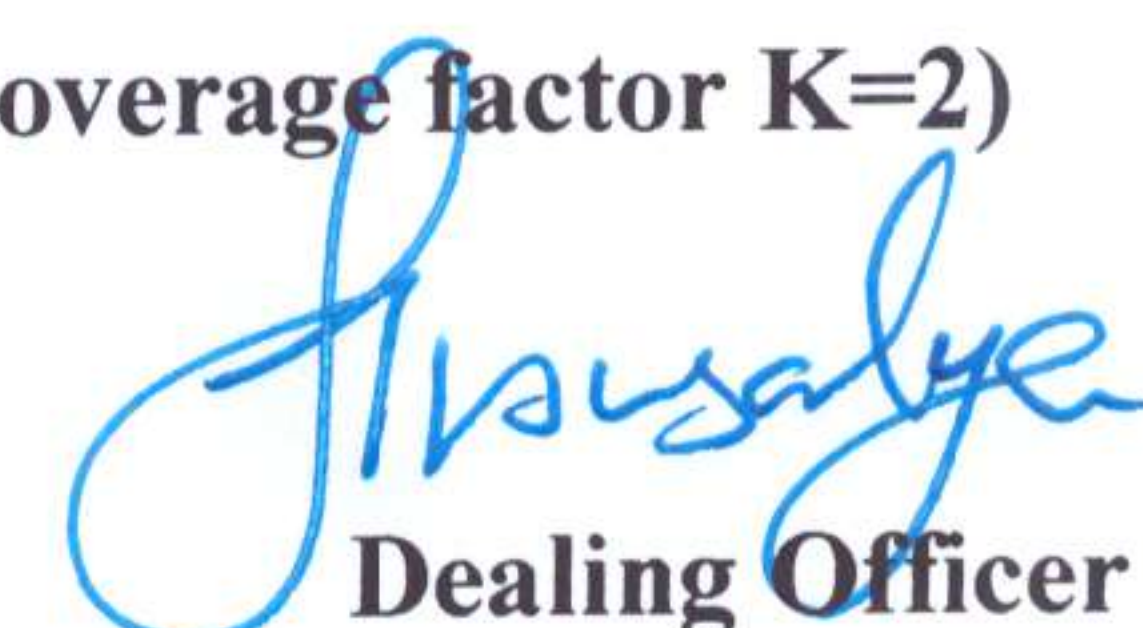
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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
Group: Temperature & Humidity				
1	Humidity Indicator of Humidity/ Environment /Stability Chamber.	Digital Thermo-Hygrometer (Single Sensor) by Comparison Method as per DKD-R-5-7: 2019	20% RH to 90% RH @ 25°C	1.78% RH
2	Temperature Indicator of Humidity / Environment / Stability Chamber.	Using Digital Thermo-Hygrometer / RTD with Indicator (Single Sensor) by Comparison Method as per DKD-R-5-7: 2019	20°C to 50°C @ 50% RH	0.92°C
3	Indicator of Liquid Bath, Freezer, Deep Freezer, Chiller, Cooling Chamber, Refrigerator, Incubator, BOD, Environment Chamber, Dry Block, Oven.	Using PT100X1, Simplex, 4 Wire RTD with Indicator (Single Sensor) By Comparison Method as per DKD-R-5-7: 2019	(-40)°C to 250 °C	0.2°C
4	RTD/ Thermocouple with Indicator, Digital Thermometer, Temp. Indicator with Sensor, Temp. Transmitter, Temp. Data Logger with Sensor, Temperature Gauge.	Using PT100X1, Simplex, 4 Wire RTD with Indicator & Calsys - 40/50 & Calsys 250 Liquid Bath by Comparison method as per DKD-R-5-7: 2019	(-)40°C to 50 °C 50°C to 250 °C	0.2°C 0.3°C

* Expanded uncertainty expressed in coverage probability of approximately 95% (coverage factor K=2)


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