

Quality And Accreditation Institute

Centre for International Accreditation



Certificate of Accreditation

Cotecna Inspection India Private Limited
(Calibration Division)

Plot No.306, Udyog Vihar, Phase-2
Gurugram-122016, Haryana, 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/2026/0006

Valid from: 24 July 2026

Valid until: 23 July 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Scope of Accreditation

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Dimensions (Basic-Measuring Instrument, Gauges etc.)				
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				
1.	Caliper (Vernier/Dial/Digital) L.C: 0.01 mm and coarser	Using Slip Gauge Block and Caliper Checker by Comparison Method	0 to 300 mm	13 μ m
2.	Sample Cutter/Diameter of cut sample	Using Dig. Caliper by direct method	30 mm to 150 mm	83 μ m
3.	Dial/Digital Thickness Gauge L.C: 0.001 mm and Coarser	Using '0' Grade Slip Gauge Set by Comparison Method	0 to 50 mm	1.7 μ m
4.	External Micrometres (L.C: 0.001 mm and Coarser) (L.C: 0.01 mm)	Using '0' Grade Slip Gauge Set by Comparison Method	0 to 25 mm	1.1 μ m
		Using '0' Grade Slip Gauge Set by Comparison Method	0 to 150 mm	7.8 μ m
5.	Measuring Tape / Pie Tape L.C: 1 mm and Coarser	Using Measuring Scale and Tape Calibration System	0 to 30000 mm	34 $\sqrt{(L/1000)}$ μ m, (L in mm)
6.	Steel Scale/Shrinkage Scale (L.C: 0.5 mm and Coarser)	Using Measuring Scale and Tape Calibration System	0 to 1200 mm	34 $\sqrt{(L/1000)}$ μ m, (L in mm)



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7.	Plunger Type Dial Gauge (L.C: 0.01 mm and Coarser)	Using '0' Grade Slip Gauge Set and Comparator Stand by Comparison Method	0 to 100 mm	9.6 μ m
8.	Template / Scale / T-Scale / L-Scale (Shrinkage/Skewness/ Tensile/ Tear/ Seam)	Using Digital Caliper by Comparison Method	0 to 300 mm	0.45 mm
9.	Angle Fixture	Using Digital Angle Protractor by Comparison Method	0 to 180°	8'
10.	Feeler Gauge	Using Digital External micrometres	0.03 mm to 1 mm	6.4 μ m
At Permanent and At Site Facility				
11.	Calibration of Jigs & Fixture, Industrial Template, Plain Work Piece, Lever Arm, Test Mandrel (ID, OD, Height, Thickness)	Using Digital Caliper by Comparison Method	0 to 300 mm	0.45 mm



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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) ($\pm$)
At Permanent Laboratory				
1.	Glassware (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Container, Centrifuge Tube)	Using Digital Weighing Balance (Readability 0.001g) as per ISO 4787:2021 by Gravimetric Method	>100 ml to 500 ml	1.7 ml
2.	Glassware (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Container, Centrifuge Tube)	Using Digital Weighing Balance (Readability 0.01 g) as per ISO 4787:2021 by Gravimetric Method	>500 ml to 1000 ml	1.7 ml
3.	Glassware (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Container, Centrifuge Tube)	Using Digital Weighing Balance (Readability 0.0001 g) as per ISO 4787:2021 by Gravimetric Method	1 ml to 100 ml	0.10 ml
4.	Glassware (Burette, Pipette, Measuring Cylinder, Beaker, Flask, Container, Centrifuge Tube)	Using Digital Weighing Balance (Readability 0.01 g) as per ISO 4787:2021 by Gravimetric Method	1000 ml to 2000 ml	1.8 ml



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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) ($\pm$)
5.	Piston Operated Micropipettes / Piston Operated Dispenser	Using Weighing Balance (Readability 0.0001 g) as per ISO 8655-6: 2022 by Gravimetric Method	200 μ l to 1000 μ l	2.5 μ l
6.	Piston Operated Micropipettes / Piston Operated Dispenser	Using Weighing Balance (Readability 0.0001 g) as per ISO 8655-6: 2022 by Gravimetric Method	1 ml to 10 ml	14 μ l
7.	Piston Operated Micropipettes / Piston Operated Dispenser	Using Weighing Balance (Readability 0.0001 g) as per ISO 8655-6: 2022 by Gravimetric Method	10 ml to 100 ml	30 μ l



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Mechanical Discipline- Mass				
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At Site Facility				
1.	Digital Weighing Balance (Class-I and Coarser, Readability d: 0.1 mg and Coarser)	Using E1 Class Std. Weight Box as per OIML R 76-1: 2006	0 to 220 g	0.30 mg
2.	Digital Weighing Balance (Class-II and Coarser, Readability d: 0.001 g and Coarser)	Using E1 & F1 Class Std. Weight as per OIML R 76-1: 2006	0 to 1000 g	31 mg
3.	Digital Weighing Balance (Class-II and Coarser, Readability d: 0.01 g and Coarser)	Using E1 & F1 Class Std. Weight as per OIML R 76-1: 2006	0 to 4200 g	0.50 g
4.	Digital Weighing Balance (Class-II and Coarser, Readability d: 0.1 g and Coarser)	Using E1 & F1 Class Std. Weight as per OIML R 76-1: 2006	0 to 15 kg	0.20 g



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Mechanical Discipline- Mass				
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5.	Digital Weighing Balance (Class-III and Coarser, Readability d: 5 g and Coarser)	Using F1 Class Std. Weights as per OIML R 76-1: 2006	0 to 60 kg	3.0 g
At Permanent Laboratory				
6.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	10 mg	0.10 mg
7.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronic weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	20 mg	0.10 mg
8.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	50 mg	0.10 mg



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9.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	100 mg	0.10 mg
10.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	200 mg	0.10 mg
11.	Weights Accuracy Class M1 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	500 mg	0.10 mg
12.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	1 g	0.10 mg



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13.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	2 g	0.10 mg
14.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	5 g	0.10 mg
15.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	10 g	0.10 mg
16.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	20 g	0.10 mg



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17.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	50 g	0.10 mg
18.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	100 g	0.20 mg
19.	Weights Accuracy Class F2 & Coarser	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) by substitution method (ABA cycle) OIML R 111-1:2004	200 g	0.20 mg
20.	Weights Accuracy Class F2 & Coarser	Using F1 class Std. weights & electronics weighing Balance (Readability 0.001 g) by substitution method (ABA cycle) OIML R 111-1:2004	500 g	1.0 mg



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21.	Weights Accuracy Class M1 & Coarser	Using F1 class Std. weights & electronics weighing Balance (Readability 0.001 g) by substitution method (ABA cycle) OIML R 111-1:2004	1 kg	7.0 mg
22.	Weights Accuracy Class M1 & Coarser	Using F1 class Std. weights & electronics weighing Balance (Readability 0.001 g) by substitution method (ABA cycle) OIML R 111-1:2004	2 kg	12 mg
23.	Weights Accuracy Class M2	Using F1 class Std. weights & electronics weighing Balance (Readability 0.01 g) by substitution method (ABA cycle) OIML R 111-1:2004	5 kg	85 mg
24.	Weights Accuracy Class M2	Using F1 class Std. weights & electronics weighing Balance (Readability 0.1 g) by substitution method (ABA cycle) OIML R 111-1:2004	10 kg	0.45 g



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Mechanical Discipline- Mass				
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25.	Non-Standard Weights (Conventional Mass)	Using E1 class Std. weights & electronics weighing Balance (Readability 0.0001 g) as per OIML R 111-1:2004	1 g to 200 g	5.0 mg
26.	Non-Standard Weights (Conventional Mass)	Using E1 / F1 class Std. weights & electronics weighing Balance (Readability 0.001 g) as per OIML R 111-1:2004	200 g to 1 kg	10 mg
27.	Non-Standard Weights (Conventional Mass)	Using F1 class Std. weights & electronics weighing Balance (Readability 0.01 g) as per OIML R 111-1:2004	1 kg to 4 kg	0.20 g
28.	Non-Standard Weights (Conventional Mass)	Using F1 class Std. weights & electronics weighing Balance (Readability 0.1 g) as per OIML R 111-1:2004	4 kg to 15 kg	0.90 g



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Mechanical Discipline- Mass				
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29.	Non-Standard Weights (Conventional Mass)	Using F1 class Std. weights & electronics weighing Balance (Readability 5 g) as per OIML R 111-1:2004	15 kg to 50 kg	5.0 g



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Mechanical Discipline- Pressure & Vacuum				
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 At Site Facility				
1.	Hydraulic Pressure-Dial/Digital Pressure Gauge	Digital Pressure Gauge Using Pressure Comparator by Comparison Method as per DKD R6-1:2014	0 to 50 bar	0.2 bar



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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) ($\pm$)
At Site Facility				
1.	Uniaxial Static Testing Machine (UTM, TTM) (Compression Mode)	Using Force proving Instrument (Load Cell With indicator) Based on IS 1828 (Part - 1):2022	0.5 KN to 10 KN	0.88 %
2.	Uniaxial Static Testing Machine (UTM, TTM) (Tension Mode)	Using Force proving Instrument (Load Cell With indicator) Based on IS 1828 (Part - 1):2022	0.5 KN to 10 KN	0.88 %



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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 Facility				
1.	Centrifuge, RPM Indicator of Stirrer / Shaker / Motor / Vibrator / Mixer / Tachometer Calibrator/ Viscometer (Non-Contact Type)	Using Tachometer (Non-Contact Type) by Comparison Method	30 rpm to 100 rpm	7.7 % rdg
2.	Centrifuge, RPM Indicator of Stirrer / Shaker / Motor / Vibrator / Mixer / Tachometer Calibrator/ Viscometer (Non-Contact Type)	Using Tachometer (Non-Contact Type) by Comparison Method	>100 rpm to 1000 rpm	2 % rdg
3.	Centrifuge, RPM Indicator of Stirrer / Shaker / Motor / Vibrator / Mixer / Tachometer Calibrator/ Viscometer (Non-Contact Type)	Using Tachometer (Non-Contact Type) by Comparison Method	>1000 rpm to 25000 rpm	2 % rdg

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Mechanical Discipline- Acceleration & Speed				
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At Permanent Laboratory				
4.	RPM Meter, Tachometer, (Non-Contact type)	Using Tachometer as per TR-45-01:2008 & SANAS TR-45-02:2017 by Comparison method	30 rpm to 100 rpm	7.7 % rdg
5.	RPM Meter, Tachometer, (Non-Contact type)	Using Tachometer as per TR-45-01:2008 & SANAS TR-45-02:2017 by Comparison method	>100 rpm to 500 rpm	0.52 % rdg
6.	RPM Meter, Tachometer, (Non-Contact type)	Using Tachometer as per TR-45-01:2008 & SANAS TR-45-02:2017 by Comparison method	>500 rpm to 1000 rpm	0.69 % rdg
7.	RPM Meter, Tachometer, (Non-Contact type)	Using Tachometer as per TR-45-01:2008 & SANAS TR-45-02:2017 by Comparison method	>1000 rpm to 5000 rpm	0.52 % rdg



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Mechanical Discipline- Acceleration & Speed				
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8.	RPM Meter, Tachometer, (Non-Contact type)	Using Tachometer as per TR-45-01:2008 & SANAS TR-45-02:2017 by Comparison method	>5000 rpm to 25000 rpm	0.51 % rdg



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Thermal Discipline- Temperature				
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 Facility				
1.	Temperature Indicator/ Controller of Humidity Chamber/Environmental Chamber - Single Position Calibration @50 % RH	Using Temperature & RH Sensor with Indicator by Comparison Method	10 °C to 50 °C	0.35°C
2.	Humidity Indicator/Controller of Humidity Chamber/Environmental Chamber - Single Position Calibration @25°C	Using Temperature & RH Sensor with Indicator by Comparison Method	20 % RH to 95 % RH	1.5% RH
3.	Chamber, Incubators, Oven, Autoclave, Furnace, Freezer, Environment Chamber, (For Non-Medical Purpose) (Multi Position Calibration)	Using RTD Sensors (Min 9 Sensors) with Digital Temperature scanner/Data logger with multi-Position Calibration	-30 °C to 250 °C	0.8°C
4.	Temperature Gauge, RTD & Thermocouple's with Indicator/Controller/Recorder/Data Logger	Using RTD Sensor with Precision Digital Thermometer, Dry Block Furnace by Comparison Method	-30 °C to 250 °C	0.25 °C

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Thermal Discipline- Temperature				
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5.	Chamber, Incubators, Oven, Autoclave, Furnace, Freezer, Environment Chamber, Dry Block (For Non-Medical Purpose) (Single Position Calibration)	Using RTD Sensor with Precision Digital Thermometer by Comparison Method	-30 °C to 250 °C	0.30 °C

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

