

# 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

### **M/s AUTHENTIC INSTRUMENT INDUSTRIES LIMITED**

31, RIICO Industrial Area, Near Kamani Chauraha,  
Jaipur-302012 (Rajasthan), 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-119

**Issue Date:** 02.02.2024

**Valid Until:** 01.02.2026

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](http://www.fdasindia.org)).

  
DEVI SARAN TEWARI  
Director

# FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

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## SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 119)

Laboratory Name: M/s Authentic Instrument Industries Limited

31, RIICO Industrial Area Near Kamani Chauraha, Jaipur Rajasthan-302012

Validity

02.02.2024 to 01.02.2026

Amended on N/A

### Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
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Dimension				
1	Dial/ Digital Thickness Gauge L.C. 0.001 mm	Using Slip Gauge Set (IS 2092:1983 & JIS B7503:2017)	1.005 mm to 10 mm	1.30 $\mu$ m
2	Dial/ Digital Thickness Gauge L.C. 0.01 mm	Using Slip Gauge Set (IS 2092:1983 & JIS B7503:2017)	1.005 mm to 25 mm	6 $\mu$ m
3	Digital/ Dial/ Vernier Caliper L.C. 0.01 mm/ 0.02 mm	Using Caliper Checker/ Slip Gauges/ Length Bars (IS: 16491 Part 1:2016)	1.005 mm to 300 mm	10 $\mu$ m
4	Digital/ Dial/ Vernier Caliper L.C. 0.01 mm/ 0.02 mm	Using Caliper Checker/ Slip Gauges/ Length Bars (IS: 16491 Part 1:2016)	1.005 mm to 600 mm	17 $\mu$ m
5	Bore Gauge ( L.C. 0.01 mm)	Using Dial Calibration Tester (JIS B 75715:1982)	1 mm Spindle Travel	6 $\mu$ m
6	Coating Thickness Gauge	Using Standard Coating Foils	10 $\mu$ m to 700 $\mu$ m	5.01 $\mu$ m
7	Depth Micrometer L.C. 0.001 mm/ 0.01 mm	Using Slip Gauge Set/ Length Bars (BS-6468:2008)	1.005 mm to 100 mm	3.80 $\mu$ m

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
8	Digital/ Dial/ Vernier Height Gauge L.C. 0.01 mm/ L.C. 0.02 mm	Using Slip Gauge Set/ Length Bars & Surface Plate (IS 2921:2016 & JIS B7517:1982)	1.005 mm to 300 mm	11.63 $\mu$ m
9	Digital/ Dial/ Vernier Height Gauge L.C. 0.01 mm/ L.C. 0.02 mm	Using Slip Gauge Set/ Length Bars & Surface Plate (IS 2921:2016 & JIS B7517:1982)	300 mm to 600 mm	16 $\mu$ m
10	Digital/ External Micrometer L.C. 0.001 mm/ 0.01 mm	Using Slip Gauge Set/ Length Bars & Surface Plate (IS 2967: 1983 RA 2019 & JIS B 7502:2016)	1.005 mm to 100 mm	1.96 $\mu$ m
11	Digital/ External Micrometer L.C. 0.001 mm/ 0.01 mm	Using Slip Gauge Set/ Length Bars & Surface Plate (IS 2967: 1983 RA 2019 & JIS B 7502:2016)	100 mm to 400 mm	5.80 $\mu$ m
12	Feeler Gauge	Using Digital Micrometer (IS 3179:1990)	0.001 mm to 3 mm	3.21 $\mu$ m
13	Lever Type Dial Gauge L.C. 0.001 mm/ 0.01 mm	Using Slip Gauge Set/ Dial Calibration Tester (IS 11498: 1985 RA. 2020)	0.002 mm to 1 mm	3 $\mu$ m

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
14	Measuring Scale/ Steel Scale L.C. 1 mm	Using Tape and Scale Calibrator (IS 1481: 1970 RA 2014)	0 mm to 1000 mm	120.3 Sq.root L/1000 $\mu$ m L : Length (in m)
15	Measuring Tape/ Pl Tape L.C. 1 mm	Using Tape and Scale Calibrator (IS 1269 (Part- 1,11) :1997 RA 2018 )	0 meter to 50 meter	120Sq.roots L / 1000 $\mu$ m L : Length (in m)
16	Pitch Gauge	Using Profile Projector ( IS 4211:1983 RA 2019)	0.5 mm to 6 mm/ 55°to 60°	19 $\mu$ m / 3.6min of arc
17	Plunger Type Dial Gauge L.C. 0.001 mm	Using Slip Gauge Set/ Dial Calibration Tester (IS 2092: 1983)	0 mm to 10 mm	2.32 $\mu$ m
18	Plunger Type Dial Gauge L.C. 0.01 mm	Using Slip Gauge Set/ Dial Calibration Tester (IS 2092: 1983)	Up to 25 mm	6.32 $\mu$ m
19	Radius Gauge	Using Profile Projector (IS 5273: 1969 RA. 2019)	0.6 mm to 25 mm	17 $\mu$ m
20	Test Sieves	Using Profile Projector(IS - 460 (PART-1,2&3):2020)	32 $\mu$ m to 10 mm	18 $\mu$ m
21	Test Sieves	Using Vernier Caliper (IS - 460 (PART-1,2&3):2020)	10 mm to 200 mm	28.5 $\mu$ m

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Pressure & Vacuum				
1	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Low Pressure Indicator by Comparison Method(DKD-R6-1:2003)	0.001 bar to 7 bar	0.02bar
2	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Low Pressure Indicator by Comparison Method(DKD-R6-1:2003)	7 bar to 70 bar	0.63bar
3	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Low Pressure Indicator by Comparison Method(DKD-R6-1:2003)	70 bar to 700 bar	1.5bar
4	Low pressure gauge/Manometer/M agnehelic gauge/Pressure gauge/transmitter/sw itch	Using Digital Pressure gauge and low pressure indicator By Comparison(DKD-R6- 1:2003)	0 to 1000mmwc / 0 to 760mmHg	2.4mmwc
5	Vacuums Gauge/Transmitter/S witch	Vacuums Gauge By Comparison Method (DKD-R6-2:2002)	-0.95 bar to 0 bar	0.008bar

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### Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
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Mass				
1.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	1 mg	0.005mg
2.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	2 mg	0.005mg
3.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	5 mg	0.005mg
4.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	10 mg	0.008mg
5.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	20 mg	0.008mg
6.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	50 mg	0.008mg

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
7.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	100 mg	0.008mg
8.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	200 mg	0.008mg
9.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg as per OIML-R 111-1	500 mg	0.008mg
10.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg) as per OIML-R 111-1	1 g	0.008 mg
11.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, Resolution 0.001 mg/ as per OIML-R 111-1	2 g	0.008 mg
12.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.001 mg) as per OIML-R 111-1	5 g	0.008 mg

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
13.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.01 mg) as per OIML-R 111-1	10 g	0.05 mg
14.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.01 mg) as per OIML-R 111-1	20 g	0.05 mg
15.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.01/ 0.1 mg) as per OIML-R 111-1	50 g	0.08 mg
16.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.1 mg) as per OIML-R 111-1	100 g	0.2 mg
17.	Weights (Conventional Mass F1 Class and Coarser)	Using Standard Weights of E1 Class & Micro Balance, (Resolution 0.1 mg) as per OIML-R 111-1	200 g	0.3mg
18.	Weights (Conventional Mass F2 Class and Coarser)	Using Standard Weights of F1 Class & Precision Balance, (Resolution 1 mg) as per OIML-R 111-1	500 g	2 mg

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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
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19.	Weights (Conventional Mass F2 Class and Coarser)	Using Standard Weights of F1 Class & Precision Balance, (Resolution 1 mg) as per OIML-R 111-1	1 kg	6 mg
20.	Weights (Conventional Mass F2 Class and Coarser)	Using Standard Weights of F1 Class & Precision Balance, (Resolution 1 mg) as per OIML-R 111-1	2 kg	8 mg
21.	Weights (Conventional Mass F2 Class and Coarser)	Using Standard Weights of F1 Class & Precision Balance, (Resolution 10 mg) as per OIML-R 111-1	5 kg	15 mg
22.	Weights (Conventional Mass F2 Class and Coarser)	Using Standard Weights of F1 Class & Precision Balance, (Resolution 10/100 mg) as per OIML-R 111-1	10 kg	25 mg

### **Volume**

1	Volume (Micro Pipettes Single /Multi-Channel (TYPE A and coarser))	Using Standard Weights (E1 Class)/ Precision Balance By (Resolution 0.001 mg) As per ISO-8655-2 By Gravimetric Method	1 $\mu$ l to 20 $\mu$ l	0.02 $\mu$ l-0.06 $\mu$ l
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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
2	Volume (Micro Pipettes Single /MultiChannel (TYPE A and coarser))	Using Standard Weights (E1 Class)/ Precision Balance (Resolution 0.01 mg) As per ISO-8655-2 By Gravimetric Method	20 $\mu$ l to 1000 $\mu$ l	0.06 $\mu$ l-1.2 $\mu$ l
3	Volume (Glassware /Pipettes/Burette) (CLASS A and coarser)	Using Standard Weights (E1 Class)/ Precision Balance (Resolution 0.01/0.1 mg) As per ISO-8655-2/IS/ISO-4787 By Gravimetric Method	0.1 ml to 1 ml	1.5 $\mu$ l-3.0 $\mu$ l
4	Volume (Glassware/Pipettes /Burette/Volumetric Flask/Beaker/Dispenser /Diluter/Foam /Volumetric Apparatus /Measuring Cylinder(CLASS A and coarser)	Using Standard Weights (E1 Class)/ Precision Balance (Resolution 0.01/0.1 mg) As per ISO-8655-2/IS/ISO-4787 By Gravimetric Method	1 ml to 10 ml	3 $\mu$ l-6 $\mu$ l
5	Volume (Glassware/Pipettes/ Burette/Volumetric	Using Standard Weights (E1 Class)/ Precision Balance (Resolution 0.01/0.1 mg) As per ISO-8655-	10 ml to 100 ml	6 $\mu$ l-20 $\mu$ l

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	Flask/Beaker/Dispenser/Diluter/Foam/Volumetric Apparatus/Measuring Cylinder(CLASS A and coarser)	2/IS/ISO-4787 By Gravimetric Method		
6	Volume (Glassware/Pipettes/Burette/Volumetric Flask/Beaker/Dispenser/Diluter/Foam/Volumetric Apparatus/Measuring Cylinder(CLASS A and coarser)	Using Standard Weights (E1 Class & F1Class) Precision Balance (Resolution 0.1/1 mg) IS/ISO- 4787/ISO-8655-6 By Gravimetric Method	100 ml to 1000 ml	20 $\mu$ l-100 $\mu$ l
7	Volume (Volumetric Flask CLASS A and coarser)	Using Standard Weights (F1 Class)/ Precision Balance (Resolution 10 mg ) IS/ISO-4787 By Gravimetric Method	<1 l to 5 l	0.4ml

### Acoustics

1	Sound Level Meter	Using Sound Level Calibrator by comparison method (IS 15575:2016(Part 1)	94 dB & 114 dB	0.84dB
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S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
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Speed & Acceleration				
1	Tachometer	Using Digital Tachometer & RPM Source (SANASTR45-II- 2017)	10 RPM to 100 RPM	7.34%
2	Tachometer	Using Digital Tachometer & RPM Source (SANASTR45-II- 2017)	100 RPM to 1000 RPM	2.70%
3	Tachometer	Using Digital Tachometer & RPM Source (SANASTR45-II- 2017)	1000 RPM to 49,997 RPM	2.70%

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### Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement ( $\pm$ ) **
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Pressure & Vacuum				
1	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Low Pressure Indicator By Comparison Method (DKD- R6-1:2003)	0.001 bar to 7 bar	0.1bar
2	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Pressure Gauge By Comparison Method (DKD-R6- 1:2003)	7 bar to 70 bar	0.83bar
3	Pressure Gauge/ Pressure Transmitters/ Switches	Using Digital Pressure Gauge By Comparison Method (DKD-R6- 1:2003)	70 bar to 700 bar	2bar
4	Low pressure gauge/Manometer/Mag nehelic gauge/Pressure gauge/transmitter/switc h	Using Digital Pressure gauge and low-pressure indicator Indicator by Comparison (DKD-R6-1:2003)	0 to 1000 mmwc / 0 to 760mmHg	3mmwc
5	VaccumGauge/Transmi tter/Switch	Vaccum Gauge By Comparison Method (DKD-R6-2:2002)	-0.95 bar to 0 bar	0.01bar

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#### **Balance or other weighing devices**

1.	Weighing Scale and Balance (Class-I and coarser) L.C.- 0.001 mg	Using Standard Weights of (E1 Class) as per EURAMET cg - 18/v.3 or OIML-R-76-1 and OIMLR76- 2	0 to 6 g	0.005mg
2.	Weighing Scale and Balance (Class-I and coarser) L.C.- 0.01mg	Using Standard Weights of (E1 Class) as per EURAMET cg - 18/v.3 or OIML-R-76-1 and OIMLR-76- 2	0 to 50 g	0.06mg
3.	Weighing Scale and Balance (Class-I and coarser) L.C.- 0.1mg	Using Standard Weights of (E1 Class) as per EURAMET cg - 18/v.3 or OIML-R-76-1 and OIMLR-76- 2	Upto 220 g	0.2mg
4.	Weighing Scale and Balance (class II or coarser) L.C.- 1mg	Using Standard Weights of ( E1,F1 Class) as per EURAMET cg - 18/v.3 or OIML-R-76-1 and OIMLR-76- 2	Upto 1 kg	4 m g
5.	Weighing Scale and Balance (Class-II and coarser) L.C.- 0.01g	Using Standard Weights of (F1 Class) as per EURAMET cg - 18/v.3 or OIML-R-76-1 and OIMLR-76- 2	Upto 10 kg	15 m g
6.	Weighing Scale and Balance (Class-II and coarser) L.C.- 0.1g	Using Standard Weights of ( F1 Class) as per EURAMET cg	Upto 20 kg	84 mg

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		-18/v.3 or OIML-R-76-1 and OIMLR-76- 2		
7.	Weighing Scale and Balance (Class III)	Using Standard Weights of (F1& M1 Class) as per EURAMET cg -18/v.3 or OIML-R-76-1 and OIMLR- 76- 2	Upto 100 kg	7 g

**Note: \*Scope covers calibration of labs own balances from its premises.**

### Speed & Acceleration

1	RPM Source/ Centrifuge/ Speed	Using Tachometer and RPM Source (SANASTR45-II-2017)	1000 RPM to 49,997 RPM	3.00%
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**\*\* Expanded uncertainty expressed in coverage probability of approximately 95% (coverage factor K=2)**

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