National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADITYA CALIBRATION SERVICES (OPC) PRIVATE LIMITED, R-ZA, SUBHASH PARK EXT-II, UTTAM NAGAR, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 1 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

S.No	Discipline / Group	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)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge (Non-Contact Type)	Using Tachometer by comparison method	1000 rpm to 20000 rpm	15 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge (Non-Contact Type)	Using Digital tachometer by Comparison method	100 rpm to 1000 rpm	1 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	100 rpm to 6000 rpm	6.7 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	100 rpm to 1000 rpm	3.5 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	1000 rpm to 50000 rpm	15 rpm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier/Digital L.C.: 0.01 mm	Using Caliper Checker by comparison method	0 to 600 mm	13.8 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 2 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Analog L.C.: 0.02 mm or coarser	Using Caliper Checker by comparison method	0 to 600 mm	19 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier /Analog L.C.: 0.02 mm or coarser	Using Slip Gauge/Caliper Checker by comparison method	0 to 300 mm	16.3 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier/Digital L.C.: 0.01 mm	Using Slip Gauge ,Caliper Checker by comparison method	0 to 300 mm	11.6 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm or coarser)	Using Standard Thickness Foil by comparison method	0.001 mm to 0.690 mm	1.3 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Digital) L C.: 0.01mm	Using Slip Gauges by Comparison method	0 to 300 mm	12 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 3 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier) L.C.: 0.02 mm	Using Slip Gauges by Comparison method	0 to 300 mm	17 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.: 0.01 mm	Using Slip Gauges by Comparison method	0 to 100 mm	11 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison method	0 to 1.0 mm	3.0 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge Plunger Type L.C.: 0.01 mm	Using Dial Calibration Tester Comparison Method	0 to 25 mm	7.2 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.01 mm	Using Slip Gauges by Comparison method	0 to 25 mm	7.0 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 4 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Height Gauge L.C.: 0.01 mm	Using Slip Gauge, Caliper Checker, Surface plate by comparison method	0 to 600 mm	16.8 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Thickness Gauge L.C.: 0.001 mm	Using Slip Gauges by comparison method	0 to 12.7 mm	0.8 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Slip Gauges by comparison method	0 to 300 mm	8.7 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Slip Gauges by comparison method	0 to 25 mm	1.8 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Slip Gauges by comparison method	0 to 150 mm	2.3 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 5 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by comparison method	0.05 mm to 2 mm	2.95 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Inside Micrometer L.C.: 0.01 mm	Using Slip Gauges and slip gauge accessories by comparison method	5 mm to 100 mm	7.2 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge /Puppy dial Gauge L.C.: 0.001 mm	Using Dial Calibration Testes by comparison Method	0 to 1 mm	3.0 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.01 mm	Using Dial Calibration Tester Comparison Method	0 to 0.2 mm	6.0 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Digital Micrometer by comparison method	0.3 mm to 20 mm	2.98 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 6 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Gauge - Digital Dial L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison method	0 to 25 mm	3.0 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges by comparison method	3 mm to 130 mm	2.5 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using Digital Micrometer by comparison method	0.01 mm to 2.0 mm	2.93 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.01 mm or coarser	Using Slip Gauge by comparison method	0.01 mm to 100 mm	8.0 µm
31	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Indicator / Controller with sensor, Pressure Switch	Using Hydraulic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	41 bar to 700 bar	1.0 bar

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Laboratory Name :	ADITYA CALIBRATION SERVICES (OPC) PRIVATE LIMITED, R-ZA, SUBHASH PARK EXT-II, UTTAM NAGAR, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4493	**Page No**	7 of 9
Validity	31/07/2025 to 30/07/2029	**Last Amended on**	-

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32	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Indicator / Controller with sensor, Pressure Switch	Using Hydraulic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	0 to 40 bar	0.02 bar
33	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Indicator/Controller, Magnehelic Gauge, Differential Pressure gauge	Using Pneumatic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	100 Pa to 2000 Pa	9 Pa

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4493 **Page No** 8 of 9

Validity 31/07/2025 to 30/07/2029 **Last Amended on** -

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge (Non-Contact Type)	Using Tachometer by comparison method	1000 rpm to 20000 rpm	15 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge (Non-Contact Type)	Using Digital tachometer by Comparison method	100 rpm to 1000 rpm	1 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	100 rpm to 6000 rpm	6.7 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	100 rpm to 1000 rpm	3.5 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator with Sensor, Tachometer (non Contact Type)	Using Digital Tachometer and RPM Calibrator by Comparison Method	1000 rpm to 50000 rpm	15 rpm
6	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Indicator / Controller with sensor, Pressure Switch	Using Hydraulic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	41 bar to 700 bar	1.0 bar

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4493	**Page No**	9 of 9
Validity	31/07/2025 to 30/07/2029	**Last Amended on**	-

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7	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Indicator / Controller with sensor, Pressure Switch	Using Hydraulic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	0 to 40 bar	0.02 bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Indicator/Controller, Magnehelic Gauge, Differential Pressure gauge	Using Pneumatic Pressure Test Pump, Digital Pressure Gauge by Comparison Method As per; DKD R-6-1	100 Pa to 2000 Pa	9 Pa

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