



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

1 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
LOCATION 1-SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	"V" Block (Parallelism & Symmetricity)	By Using standard cylindrical mandrill and Electro Micro Indicator by comparison method	Upto 150 mm	6.6µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	By Using the Plain ring Gauge set by comparison method	-0.1 mm to +0.1 mm	3µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set (Analog/Digital) L.C-1 °	By Using Angle Gauge Block Set by comparison method	0 to 180 °	35min
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set (Analog/Digital) L.C-1 min	By Using angle Gauge Block Set by comparison method	0 to 360 °	3min



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SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 2 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set (Analog/Digital) L.C-5 min	By Using Angle gauge Block Set with comparison method	0 to 360 °	5.8 min
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauges (Transmission Accuracy)	By Using Dial Calibration Tester With comparison method	0 to 2 mm	2.4µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand (Work Table flatness)	By using Electro micro indicator with comparison method	Up to 200 X 200 Base mm	4µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge L.C-0.01 mm	By Using Depth checker, Caliper Checker, Long Gauge block set by using comparison method	0 to 600 mm	12µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C-0.001 mm	By Using Depth Checker with comparison method	0 to 300 mm	7.10µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 3 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester L.C-0.0001 mm	By Using Electro micro indicator with comparison method	Upto 50 mm	1.3µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	By Using Gauge block set and Electronic micro indicator with comparison method	200 mm to 300 mm	3.1µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	By Using Gauge block set and Electronic Micro indicator with comparison method	5 mm to 200 mm	2.4µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial thickness Gauge L.C-0.001 mm	By Using gauge block with comparison method	0 to 2 mm	4µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial thickness Gauge L.C-0.01 mm	By Using Gauge blocks with comparison method	0 to 50 mm	10.7µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

4 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C-0.0001 mm	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 1000 mm	12µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C-0.0001 mm	By Using Caliper Checker & Long Gauge Block set with comparison method	0 to 600 mm	6.0µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level L.C-0.001 mm/m	By Using Tilting Device with electronic level by comparison method	+/-2.0 mm/m	6.0 µm/m
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level L.C-0.001 mm/m	By Using Tilting Device with electronic level by comparison method	+/-5.0 mm/m	8.0µm/m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe (LVDT) L.C-0.0001 mm	By Using Automatic Dial calibration Tester with comparison method	0 to 25 mm	1.0µm



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SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2876	Page No	5 of 32
Validity	17/12/2020 to 16/12/2022	Last Amended on	03/02/2021

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.0001 mm	By using M 10 block set with comparison method	0 to 25 mm	1.2µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.001 mm	By Using Block and long Gauge block set with comparison method	0 to 100 mm	2.0µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.001 mm	By Using gauge block and long Gauge block set by comparison method	100 mm to 200 mm	3.60µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.001 mm	By using gauge block & long gauge block by comparison method	200 mm to 300 mm	3.8µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.01 mm	By using gauge block & Long gauge block set with comparison method	300 mm to 400 mm	4.5 µm



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 6 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.01 mm	By using gauge block & Long gauge block set with comparison method	400 mm to 600 mm	7µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C- 0.01 mm	By using Gauge Block & Long Gauge Block set with comparison method	600 mm to 1000 mm	12.0µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/Thickness Foils	Using Comparator stand with Electronic Micro Indicator with comparison method	Upto 2 mm	1.5µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	10 mm to 25 mm	0.14µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	25 mm to 50 mm	0.19µm



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 7 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	50 mm to 100 mm	0.33µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	Up to 10 mm	0.11µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	height Block	Using Micro indicator/ULM ,Long Gauge block set by comparison method	0 to 175 mm	2.6µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	height Block	Using Single axis measuring machine(ULM),Long gauge Block set, Micro Indicator, Surface Plate by comparison method	175 mm to 375 mm	3.5µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 8 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C-0.02 mm	By using Caliper Checker ,Long gauge block set,Surface Plate with comparison method	0 to 1500 mm	23µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C-0.02 mm	By using Caliper Checker,Long gauge block set & Surface Plate with comparison method with comparison method	0 to 600 mm	17 .50µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker, Long gauge block set, Surface plate with comparison method	0 to 1000 mm	25µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker,Surface Plate with Comparison method	0 to 300 mm	14µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker/Long gauge Block set ,Surface Plate with comparison method	0 to 600 mm	19µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

9 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

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39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Caliper L.C-0.0025 mm	By Using Gauge Block set and Accessories by comparison method	Upto 100 mm(Or 2 mm Dial mm)	4.0µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Caliper L.C-0.01 mm	Using Gauge block & Accessories by comparison method	Upto 100 mm(Or 2 mm Dial mm)	11µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Jaw Type L.C-0.01 mm	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	5 mm to 30 mm	3.5µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Stick Type L.C-0.01 mm	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	50 mm to 1500 (Ext Rod) mm	7.0µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Stick Type L.C-0.01 mm	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	50 mm to 300 mm	4.5µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

10 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

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44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator L.C-0.001 mm	By Using Automatic Dial Calibration Tester with comparison method	0 to 1 mm	1.5µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator L.C-0.01 mm	By Using Automatic dial calibration Tester with comparison method	0 to 1 mm	3.5µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale	By using Tape & Scale Calibration machine with comparison method	Up to 1 m	125µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring tape	By using measuring Tape & Scale Calibration machine with comparison method	1 m to 50 m	125vLµm where L in meter
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	0 to 175 mm	2.6µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 11 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	175 mm to 600 mm	10.4µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	600 mm to 1000 mm	13.9µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Caliper L.C-0.001 mm	By Using Gauge Block with comparison method	0 to 2 mm	4µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Caliper L.C-0.01 mm	By Using Gauge Block by comparison method	0 to 50 mm	8µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C-0.01 mm	By Using Gauge blocks with comparison method	0 to 50 mm	8µm



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 12 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

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54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C-0.1 mm	By Using Gauge Block set with comparison method	0 to 50 mm	65.4µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/Cylindrical setting Standard/OD Mastar	By Using comparator stand with Electro Micro Indicator with comparison method	0 to 100 mm	1.5µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/Cylindrical setting Standard/OD Mastar	By Using Comparator Electro Micro Indicator /Gauge block set &ULM with comparison method	100 mm to 175 mm	2.6µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/Cylindrical setting Standard/OD Mastar	Using Comparator Electro micro indicator / Gauge block Set & ULM with comparison method	175 mm to 375 mm	4µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	By Using single axis measuring machine (ULM) & Master ring with comparison method	2 mm to 200 mm	2µm



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

13 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

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59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	By Using Single axis measuring machine (ULM) & Master ring with comparison method	200 mm to 370 mm	3.0µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge	By using single axis measuring machine (ULM) , Gauge Block set ,Thread Measuring Wires with comparison method	2 mm to 200 mm	3.5µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge	By using single axis measuring machine(ULM), Gauge block set, Thread Measuring Wires with comparison method	5 mm to 200 mm	4.1µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial L.C.0.100mm	By using comp.stand & gauge block set with comparison method	0 to 50 mm	65.4µm



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 14 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator L.C-0.001 mm	By Using Automatic Dial Calibration tester with comparison method	0 to 25 mm	1.5µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator L.C-0.001 mm	By Using Gauge block and comparator stand with comparison method	0 to 50 mm	2.3µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	By Using Profile Projector with comparison method	Upto 25 mm	25µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Right Angle /Angle Plate	By using Electronic probe with Square master by comparison method	Upto 300 mm	9µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar & Sine Center (Angular Accuracies)	By Using Angle Gauge block, gauge block & lever type Dial gauges with comparison method	Up to 300 °	13.5sec



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DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

15 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

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68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	By Using gauge block & Using Single axis measuring machine (ULM) with comparison method	0.5 mm to 100 mm	2.0µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	By Using Gauge Blocks & single axis measuring machine (ULM) with comparison method	100 um to 200 um	3µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	by Using Gauge Block & single axis measuring machine (ULM) with comparison method	200 mm to 350 mm	3.2µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit level L.C-0.01 mm/m	by Using Electronic Level with comparison method	+/-0.200 mm/m	0.01 mm/m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug gauge	By using single axis measuring machine (ULM) / Pin Gauge set with comparison method	Upto 150 DOP mm	2.25µm



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Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

16 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring gauge	By using Gauge Block Set & Pin Gauge set with comparison method	Upto 150 DIP mm	2.30 μ m
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	By Using Electronic level with comparison method	3000 mm to 3000 mm	$1.27 \times \sqrt{(L+W)/150}$ mm/m Where L & W in mm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Only Effective Diameter)	By Using Single Axis Measuring Machine (ULM), Floating Carriage Diameter Measuring Machine & Thread measuring wires with Comparison method	7 mm to 101.60 mm	4 μ m
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Only Effective Diameter)	By using Single Axis Measuring Machine (ULM), Master setting ring & T stylus anvils with Comparison method	7 mm to 101.6 mm	4 μ m



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

17 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrill (Run out)	By Using Bench Center / Electronic Probe with comparison method	0 to 300 mm	4.0µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angular)	By using Profile Projector with comparison method	55 ° to 60 °	10min
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Linear)	By using profile projector with comparison method	0.3 mm to 6 mm	20µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Only Effective Diameter)	By Using Single Axis Measuring Machine (ULM), Floating Carriage Diameter Measuring Machine & Thread measuring Wires with comparison method	0 to 100 mm	4.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 18 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Only Effective Diameter)	By using Single Axis Measuring Machine (ULM) and thread measuring wires with comparison method	100 mm to 200 mm	5µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Only Effective Diameter)	By using Single Axis measuring machine (ULM), Master setting ring with comparison method	100 mm to 300 mm	5µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Only Effective Diameter)	By using Single Axis measuring machine (ULM) , Master setting ring & T stylus anvils with comparison method	3 mm to 100 mm	3.6µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer L.C-0.001 mm	By Using Ring Gauges with Comparison method	10 mm to 150 mm	3.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

19 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Analogue) L.C-0.02 mm	By using Gauge block & long Gauge block set with comparison method as per By using gauge block & long Gauge block set with comparison method	0 to 1000 mm	26µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Analogue) L.C-0.02 mm	By using gauge block & long Gauge block set with comparison method	0 to 2000 mm	30µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Analogue) L.C-0.02 mm	By using Gauge block & Long gauge block set with comparison method as per By using gauge block & long Gauge block set with comparison method	0 to 600 mm	17µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C.0.01 mm	By using Caliper checker and long Gauge block set with comparison method as per By using gauge block & long Gauge block set with comparison method	0 to 1000 mm	19 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 20 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.001 mm	By using Caliper Checker with comparison method	0 to 150 mm	7.9µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm	By using Comparison method with Caliper checker	0 to 600 mm	14µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Electro micro Stand,ULM /Long Gauge block set with comparison method	0 to 175 mm	2.6µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Single axis measuring machine (ULM) /Long Gauge block set&Micro Indicator with comparison method	175 mm to 375 mm	3.5µm
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Bench center (Co-Axility , Parallelism of Axis of centers)	By Using Test Mandrills & Plunger Dail by comparison method	0 to 1000 mm	3.24µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

21 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine X-Axis (Performance Accuracy)	By Using the Contour Master with comparison method	0 to 200 mm	3.82µm
95	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine Z-Axis (capable to travel 200 mm X axis)	By Using Contour Master with slip gauge comparison method	Upto +/- 12.5 mm	3.82µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	10 X to 50 X	1.6%
97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Angular Measurement	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	0 to 360 °	5min
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear X x Y	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	200 x to 150 mm	8.0µm
99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen Ra value	By Using the Surface roughness machine with comparison method procedure RCL L1 WI 58	Up to 6.5 µm	10.4%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2876	Page No	22 of 32
Validity	17/12/2020 to 16/12/2022	Last Amended on	03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable & Stand alone)	By Using the Surface roughness masters(3 Nos) with comparison method	Ra 0.3 μm to Ra 6.37 μm	8.34%
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Thread Measuring Machine	By Using, OD master , Plain Ring Gauge,Thread ring gauge and Thread Plug gauge by comparison method	3 to 60 mm	1.6 μm
102	MECHANICAL-FORCE PROVING INSTRUMENTS	Force Gauge / Push Pull Gauge (In Push and Pull Direction)	By Using the dead weights with comparison method	50 N to 500 N	2.3 N
103	MECHANICAL-HARDNESS TESTING MACHINES	Rubber Hardness Tester for Spring force calibration	By Using Rubber Hardness Tester Calibrator by comparison method ASTM D 2240-05	0 to 100 Shore D	1.5Shore D
104	MECHANICAL-HARDNESS TESTING MACHINES	Rubber Hardness Tester for Spring force calibration	By Using Rubber Hardness Tester Calibrator by comparison method ASTM D 2240-05	0 to 100 Shore A	1.5Shore A
105	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Analog / Digital) Pressure Gauges	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	0 to 40 bar	0.13bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

23 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
106	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Analog / Digital) Pressure Gauges	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	40 bar to 400 bar	1.59bar
107	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II , All Classes)	By Using Digital Torque Wrench tester by comparison method as per IS 16096-2018	0.5 Nm to 5 Nm	2.9% rdg
108	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II , All Classes)	By Using Digital Torque Wrench tester by comparison method as per IS 16096-2018	5 Nm to 50 Nm	2.7%rdg
109	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II , All Classes)	By Using Digital Torque Wrench tester by comparison method as per IS 16096-2018	50 Nm to 500 Nm	3.0%rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

24 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
LOCATION 1-SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	By Using the Plain ring Gauge set by comparison method	-0.1 mm to +0.1 mm	3µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C-0.0001 mm	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 1000 mm	12µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C-0.0001 mm	By Using Caliper Checker & Long Gauge Block set with comparison method	0 to 600 mm	6.0µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C-0.02 mm	By using Caliper Checker ,Long gauge block set, Surface Plate with comparison method	0 to 1500 mm	23µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

25 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C-0.02 mm	By using Caliper Checker, Long gauge block set & Surface Plate with comparison method with comparison method	0 to 600 mm	17.50µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker, Long gauge block set, Surface plate with comparison method	0 to 1000 mm	25µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker, Surface Plate with Comparison method	0 to 300 mm	14µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial) L.C-0.01 mm	By Using Caliper Checker/Long gauge Block set, Surface Plate with comparison method	0 to 600 mm	19µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	By Using Electronic level with comparison method	3000 mm to 3000 mm	1.27Xsqrt((L+W)/150) mm/m Where L & W in mm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 26 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Bench center (Co-Axility , Parallelism of Axis of centers)	By Using Test Mandrills & Plunger Dail by comparison method	0 to 1000 mm	3.24µm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine X-Axis (Performance Accuracy)	By Using the Contour Master with comparison method	0 to 200 mm	3.82µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine Z-Axis (capable to travel 200 mm X axis)	By Using Contour Master with slip gauge comparison method	Upto +/- 12.5 mm	3.82µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	10 X to 50 X	1.6%
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Angular Measurement	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	0 to 360 °	5min
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear X x Y	By Using Measuring glass scale , Angle gauge,Digital Caliper by comparison method	200 x to 150 mm	8.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

27 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable & Stand alone)	By Using the Surface roughness masters(3 Nos) with comparison method	Ra 0.3 μ m to Ra 6.37 μ m	8.34%
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Thread Measuring Machine	By Using, OD master , Plain Ring Gauge,Thread ring gauge and Thread Plug gauge by comparison method	3 to 60 mm	1.6 μ m
18	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Analog / Digital) Pressure Gauges	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	0 to 40 bar	0.13bar
19	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Analog / Digital) Pressure Gauges	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	40 bar to 400 bar	1.59bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2876 **Page No** 28 of 32

Validity 17/12/2020 to 16/12/2022 **Last Amended on** 03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
LOCATION 2 - SHOP NO-07 , BURHANI COMPLEX,GAT NO 214/1, PUNE-NASHIK HIGHWAY,NANEKARWADI,CHAKAN,PUNE ,MAHARASHTRA, INDIA, PUNE, MAHARASHTRA, INDIA Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector /Combination set (Analog/Digital) L.C-1 min	By Using Angle Gauge block set with comparison method	0 to 360 °	3.0min
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Accuracy)	By Using Electronic micro indicator & Dial Calibration Tester with comparison method	0 to 1 mm	2.5µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.-0.0001 mm	By Using thickness foils with comparison method	Upto 1 mm	3µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.-0.001 mm	By Using Thickness foils with comparison method	Upto 2 mm	12.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

29 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauges L.C-0.01 mm	By Using Depth Gauge Checker by comparison method	0 to 300 mm	15µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C-0.001 mm	By Using Depth Gauge Checker & Surface Plate with comparison method	0 to 300 mm	7.4µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Using Gauge Block Set & Electro Micro Indicator with Comparison method	0.5 mm to 200 mm	2.4µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/Pistol Caliper/Outside Caliper L.C-0.01 mm	By Using Gauge blocks with comparison method	0 to 50 mm	10.7µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C-0.001 mm	By Using M10 Gauge Block & M88 Gauge Block Set with comparison method	0 to 200 mm	2.5µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

30 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/Thickness Foils	By Using Electromicro Indicator With Comparator stand with comparison method	Upto 2 mm	1.5µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial/Analog) L.C-0.01 mm	By Using Caliper Checker & Surface Plate with comparison method	0 to 600 mm	16µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Calipers L.C-0.01 mm	By Using Gauge Block & Accessories with comparison method	5 mm to 100 (Or 2 mm Dial Travel) mm	11.0µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar, Height blocks, Micrometer Setting Standards	By Using Gauge block set, Electro Micro Indicator with comparator stand & Surface Plate with comparison method	0 to 200 mm	3.5µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator L.C-0.001 mm	By Using Electronic micro indicator & Dial Calibration Tester with Comparison method	0 to 1 mm	1.9µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2876

Page No

31 of 32

Validity

17/12/2020 to 16/12/2022

Last Amended on

03/02/2021

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/Cylindrical setting standard / OD Master	Using Comparator stand with Electro Micro Indicator with comparator stand & gauge block set with comparison method	0.5 mm to 100 mm	1.9µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/Cylindrical setting standard / OD Master	By Using Electro Micro Indicator with comparator stand & Gauge Block set with Comparison method	100 mm to 175 mm	2.6µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator L.C-0.001 mm	By Using Electronic Dial Calibration Tester with comparison method	0 to 10 mm	1.5µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	By Using Gauge Block Set with comparison method	0.5 mm to 200 mm	3.0µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Only Effective Diameter)	Using Floating carriage Diameter measuring machine & Thread measuring wires with comparison method	1 mm to 100 mm	4.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE,
DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Analog) L.C-0.01 mm	By Using Caliper Checker with comparison method	0 to 600 mm	15.0µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Electro Micro Indicator with comparator stand with comparison method	0 to 175 mm	2.6µm

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