

**Laboratory** Om Engineers, Flat No. 8, B Wing, Prathmesh Apartment, Amruta Nagar, Vadgaon Bk, Pune, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** CC-2751 (In lieu of C-0828) **Page** 1 of 10

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| Sl.                                  | Quantity Measured / Instrument                                                 | Range/Frequency                                                           | *Calibration Measurement Capability ( $\pm$ )                | Remarks                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <b><u>MECHANICAL CALIBRATION</u></b> |                                                                                |                                                                           |                                                              |                                                                          |
| <b>I.</b>                            | <b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>                      |                                                                           |                                                              |                                                                          |
| <b>1.</b>                            | Gauge Block Set <sup>\$</sup><br>(Tungsten Carbide )                           | Up to 25 mm<br>25 mm to 50 mm<br>50 mm to 75 mm<br>75 mm to 100 mm        | 0.06 $\mu$ m<br>0.08 $\mu$ m<br>0.09 $\mu$ m<br>0.11 $\mu$ m | Using Tungsten Gauge Block Set / Gauge block Calibrator                  |
| <b>2.</b>                            | Gauge Block Set <sup>\$</sup><br>(Steel / Ceramic )                            | Up to 25 mm<br>25 mm to 50 mm<br>50 mm to 75 mm<br>75 mm to 100 mm        | 0.11 $\mu$ m<br>0.15 $\mu$ m<br>0.19 $\mu$ m<br>0.23 $\mu$ m | Using Steel Gauge Block Set / Gauge block Calibrator                     |
| <b>3.</b>                            | Long Gauge Blocks / Length Bar <sup>\$</sup>                                   | 100 to 200 mm<br>200 mm to 300 mm<br>300 mm to 400 mm<br>400 mm to 500 mm | 1.4 $\mu$ m<br>1.5 $\mu$ m<br>1.8 $\mu$ m<br>1.9 $\mu$ m     | Using Reference Long Gauge block / Electronic Comparator                 |
| <b>4.</b>                            | Caliper Checker / Step Gauge / Depth Micro Checker <sup>\$</sup>               | Up to 670 mm                                                              | 3.4 $\mu$ m                                                  | Using Long Gauge block / Lever Type Probe                                |
| <b>5.</b>                            | Slip Gauge Block Accessories Set <sup>\$</sup>                                 | Up to 25 mm                                                               | 0.8 $\mu$ m                                                  | Using Gauge Block Set / Electronic Comparator                            |
| <b>6.</b>                            | Cylindrical Setting Master <sup>\$</sup><br>(Diameter Variation Concentricity) | Up to 100 mm<br>Up to 100 mm                                              | 1.4 $\mu$ m<br>1.0 $\mu$ m                                   | Using Gauge Block Set & Electronic Comparator/ FCDM & Plunger Dial Gauge |
| <b>7.</b>                            | Thread Measuring Wire <sup>\$</sup>                                            | 0.17 to 6.35 mm                                                           | 0.8 $\mu$ m                                                  | Using Electronic Comparator                                              |

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| 8.  | Thread Measuring Prism <sup>\$</sup>                                | A/B/C/D                                                                         | 0.8 $\mu$ m                                              | Using Electronic Comparator                           |
| 9.  | Measuring Pin <sup>\$</sup>                                         | 0.1 to 20 mm                                                                    | 0.8 $\mu$ m                                              | Using Electronic Comparator                           |
| 10. | Micrometer Setting Standard <sup>\$</sup>                           | 25 mm to 100 mm<br>>100 mm to 300 mm<br>>300 mm to 500 mm<br>>500 mm to 1000 mm | 1.3 $\mu$ m<br>3.5 $\mu$ m<br>5.0 $\mu$ m<br>8.0 $\mu$ m | Using Electronic Comparator, slip Gauges & Length Bar |
| 11. | Thickness Foils <sup>\$</sup>                                       | Up to 2 mm                                                                      | 0.8 $\mu$ m                                              | Using Electronic Comparator                           |
| 12. | Feeler Gauge <sup>\$</sup>                                          | Up to 2 mm                                                                      | 0.8 $\mu$ m                                              | Using Electronic Comparator                           |
| 13. | V- Block <sup>\$</sup><br>Symmetricity<br>Parallelism               | Up to 200 mm<br>Up to 200 mm                                                    | 5.0 $\mu$ m<br>5.0 $\mu$ m                               | Using Test Mandrel, Dial Indicator, Surface Plate     |
| 14. | Snap Gauge <sup>\$</sup>                                            | 2 mm to 100 mm<br>>100 mm to 250 mm                                             | 1.5 $\mu$ m<br>2.8 $\mu$ m                               | Using Gauge Block Set                                 |
| 15. | Plain Plug Gauge / Width Gauge / Height Setting Block <sup>\$</sup> | 0.1 mm to 100 mm<br>100 mm to 250 mm                                            | 1.3 $\mu$ m<br>2.9 $\mu$ m                               | Using Gauge Block Set, & Electronic Comparator        |
| 16. | Plain Ring Gauge <sup>\$</sup>                                      | 1 mm to 150 mm                                                                  | 1.4 $\mu$ m                                              | Using LMM & Master Ring Gauge                         |
| 17. | Thread / Wear Check Ring Gauge <sup>\$</sup><br>(For Effective Dia) | 1 mm to 100 mm                                                                  | 1.4 $\mu$ m                                              | Using LMM & Master Ring Gauge                         |

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| 18. | Thread Plug Gauge / Wear Check Plug Gauge <sup>\$</sup><br>(Major Dia, Minor Dia, Effective Dia.) | 2 mm to 100 mm              | 3.3 $\mu$ m                                   | Using Electronic FCDM; Cylindrical Setting Master & Thread Measuring Wire |
| 19. | Taper Thread Plug Gauge <sup>\$</sup><br>(For Effective Dia.)                                     | Up to 100 mm                | 4.6 $\mu$ m                                   | Using Electronic FCDM; Cylindrical Setting Master & Thread Measuring Wire |
| 20. | Calipers <sup>\$</sup><br>(Vernier/Dial/Digital)<br>L.C.: 10 $\mu$ m                              | 0 to 600 mm<br>0 to 1000 mm | 11.0 $\mu$ m<br>12.5 $\mu$ m                  | Using Caliper Checker & Length Bar Set, Gauge Block Set                   |
| 21. | Height Gauge <sup>\$</sup><br>(Vernier/Dial/Digital)<br>L.C.: 10 $\mu$ m                          | 0 to 600 mm<br>0 to 1000 mm | 11.0 $\mu$ m<br>13.0 $\mu$ m                  | Using Caliper Checker / Length Bar Set & Surface Plate                    |
| 22. | Depth Gauge <sup>\$</sup><br>(Vernier/Dial/Digital)<br>L.C.: 10 $\mu$ m                           | 0 to 300 mm                 | 9.0 $\mu$ m                                   | Using Gauge Block Set, Length Bar Set & Surface Plate                     |

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| 23. | External Micrometer <sup>\$</sup><br>L.C.: 1 $\mu$ m<br><br>L.C.: 10 $\mu$ m             | 0 to 100 mm<br>100 mm to 300 mm<br>300 mm to 500 mm<br><br>500 mm to 1000 mm    | 2.0 $\mu$ m<br>4.0 $\mu$ m<br>7.0 $\mu$ m<br><br>11.0 $\mu$ m | Using Gauge Block Set / Length Bar Set & Micrometer Check Set                 |
| 24. | Internal Micrometer <sup>\$</sup><br>( 2- Point )<br>L.C. 1 $\mu$ m<br>Extension Rods    | 5 mm to 300 mm<br>50 mm to 1000 mm<br>50 mm to 100 mm                           | 5.0 $\mu$ m<br>9.0 $\mu$ m<br>3.1 $\mu$ m                     | Using Gauge Block Set, Long Gauge Block & Electronic Comparator               |
| 25. | Two Pin Dial Caliper <sup>\$</sup><br>L.C.: 10 $\mu$ m                                   | Up to 50 mm                                                                     | 6.0 $\mu$ m                                                   | Using Gauge Block Set / Gauge Block Accessories                               |
| 26. | Depth Micrometer <sup>\$</sup><br>L.C.: 1 $\mu$ m                                        | 0 to 300 mm                                                                     | 7.0 $\mu$ m                                                   | Using Gauge Block Set & Length Bar Set , Surface Plate                        |
| 27. | Comparator With Comparator Stand <sup>\$</sup><br>L.C. 0.0001 mm<br><br>Flatness Of Base | 0 to 25 mm<br>( Up to Capacity 1000 mm )<br><br>300 mm x 300 mm<br>100 x 100 mm | 0.3 $\mu$ m<br><br><br>1.4 $\mu$ m<br>0.8 $\mu$ m             | Using Gauge Block Set<br><br><br>Using Electronic Probe<br>Using Optical Flat |

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| 28. | Floating Carriage Diameter Measuring M/C <sup>\$</sup><br>L.C. 0.0001 mm        | 0 to 100 mm                  | 1.5 $\mu$ m                                   | Using Gauge Block Set , Cylindrical Setting Master |
| 29. | Dial Calibration Tester <sup>\$</sup><br>L.C. 0.0001 mm                         | 0 to 25 mm                   | 0.6 $\mu$ m                                   | Using Electronic Probe                             |
| 30. | Electronic Probe / Digital Dial <sup>\$</sup><br>L.C. 0.0001 mm                 | 0 to 25 mm                   | 0.4 $\mu$ m                                   | Using Gauge Block Set                              |
| 31. | Plunger Dial Gauge <sup>\$</sup><br>L.C.: 1 $\mu$ m<br>L.C.: 1 $\mu$ m          | Up to 25 mm<br>Up to 50 mm   | 2.0 $\mu$ m<br>2.3 $\mu$ m                    | Using Dial Calibration Tester , Gauge Block,       |
| 32. | Lever Dial Gauge <sup>\$</sup><br>L.C.: 1 $\mu$ m<br>L.C.: 10 $\mu$ m           | Up to 1.0 mm<br>Up to 2.0 mm | 1.7 $\mu$ m<br>3.4 $\mu$ m                    | Using Dial Calibration Tester                      |
| 33. | Dial Comparator <sup>\$</sup><br>L.C.: 0.5 $\mu$ m                              | 50.0 $\mu$ m                 | 0.8 $\mu$ m                                   | Using Gauge Block Set , Comparator Stand           |
| 34. | Bore Gauge With Dial <sup>\$</sup><br>For Transmission Accuracy L.C.: 1 $\mu$ m | Up to 2 mm                   | 3.4 $\mu$ m                                   | Using Dial Calibration Tester , Electronic Probe   |
| 35. | Dial Snap Gauge <sup>\$</sup>                                                   | Up to 250 mm                 | 3.2 $\mu$ m                                   | Using Gauge Block Set                              |

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|     |                                                            |                                          |                                               |                                                  |
| 36. | Dial Thickness Gauge <sup>\$</sup><br>L.C.: 1.0 $\mu$ m    | Up to 25 mm                              | 1.0 $\mu$ m                                   | Using Gauge Block Set                            |
| 37. | Pistol Caliper <sup>\$</sup><br>L.C.: 100 $\mu$ m          | Up to 100 mm                             | 73.0 $\mu$ m                                  | Using Gauge Block Set                            |
| 38. | Three Point Micrometer <sup>\$</sup><br>L.C.: 1 $\mu$ m    | 6 mm to 100 mm<br>100 mm to 150 mm       | 3.8 $\mu$ m<br>4.0 $\mu$ m                    | Using Master Setting Rings                       |
| 39. | Coating Thickness Gauge <sup>\$</sup><br>L.C.: 1.0 $\mu$ m | Up to 2 mm                               | 3.3 $\mu$ m                                   | Using Thickness Foils                            |
| 40. | Ultrasonic Thickness Gauge <sup>\$</sup><br>L.C.: 0.1 mm   | 0 to 200 mm                              | 60.0 $\mu$ m                                  | Using Height Master                              |
| 41. | Radius Gauge Set <sup>\$</sup>                             | Up to 25 mm                              | 7.2 $\mu$ m                                   | Using Profile Projector                          |
| 42. | Thread Pitch Gauge <sup>\$</sup>                           | 0.17 to 7 mm<br>55°, 60° Flank Angle     | 8.0 $\mu$ m<br>6 Min                          | Using Profile Projector                          |
| 43. | Taper Scale <sup>\$</sup>                                  | 1 mm to 15 mm                            | 8.0 $\mu$ m                                   | Using Profile Projector                          |
| 44. | Test Sieves <sup>\$</sup>                                  | 0.032 mm to 3.35 mm<br>3.35 mm to 125 mm | 8.0 $\mu$ m<br>40.0 $\mu$ m                   | Using Profile Projector<br>Using Digital Caliper |
| 45. | Measuring Tape / Pie Tape <sup>\$</sup>                    |                                          |                                               |                                                  |

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|     | L.C. 1 mm                                                                      | 0 to 200 mtr                         | $116\sqrt{L}$<br>L is in mtr                       | Using Tape & Scale Calibrator                    |
| 46. | Measuring Scale <sup>\$</sup><br>L.C. 1 mm                                     | 0 to 2000 mm                         | $116\sqrt{L}$<br>L is in mtr                       | Using Tape & Scale Calibrator                    |
| 47. | Thread Pitch Micrometer <sup>\$</sup><br>L.C. 0.001 mm                         | Up to 300 mm<br>55°, 60° Flank Angle | 4.0 $\mu$ m<br>6 Min                               | Using Gauge Block Set<br>Using Profile Projector |
| 48. | Bevel Protractor <sup>\$</sup><br>L.C.: 1 Min                                  | 0° - 90° - 0°                        | 1.1 min                                            | Using Angle Gauge Block & Surface Plate          |
| 49. | Combination Set / Degree Protractor <sup>\$</sup><br>L.C.: 1°                  | 0° - 90° - 0°                        | 30 min                                             | Using Angle Gauge Block & Surface Plate          |
| 50. | Spirit Level <sup>\$</sup><br>L.C. 10 $\mu$ m/mtr                              | $\pm 1$ mm                           | 8 $\mu$ m / mtr                                    | Using Electronic Probe & Tilting fixture         |
| 51. | Surface Plate <sup>*</sup>                                                     | 3000 mm x 3000 mm                    | $2.4\sqrt{\frac{L+W}{125}}$ $\mu$ m<br>(L&W in mm) | Using Electronic Level                           |
| 52. | Electronic Height Gauge <sup>*</sup><br>L.C.: 0.1 $\mu$ m<br>L.C.: 0.1 $\mu$ m | 0 to 600 mm<br>0 to 1000 mm          | 5.7 $\mu$ m<br>8.3 $\mu$ m                         | Using Length bar & Gauge Block Set               |

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|             |                                                                                                                    |                                                   |                                                 |                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>II.</b>  | <b>DIMENSION (PRECISION INSTRUMENTS)</b>                                                                           |                                                   |                                                 |                                                                                                |
| <b>1.</b>   | Profile Projector *<br>Linear Scale<br>L.C.: 1.0 $\mu$ m<br><br>Angular Scale<br>L.C.: 1 Sec.<br><br>Magnification | Upto 200 mm<br><br>Upto 360°<br><br>10 X to 100 X | 2.3 $\mu$ m<br><br>2.0 min. of Arc<br><br>0.1 % | Using Gauge Block/Glass Scale ,<br><br>Angle Gauge<br><br>Cylindrical Pin by Comparison Method |
| <b>2.</b>   | Single Axis Measuring Machine #<br>L.C. 0.1 $\mu$ m                                                                | 0 to 100 mm                                       | 0.9 $\mu$ m                                     | Using Gauge Block Set                                                                          |
| <b>3.</b>   | Tape & Scale Calibration Unit #<br>L.C. 1 $\mu$ m                                                                  | 0 to 1000 mm                                      | 10.0 $\mu$ m                                    | Using Long Gauge Block Set                                                                     |
| <b>4.</b>   | Gauge Block Calibrator #<br>L.C. 0.01 $\mu$ m                                                                      | 0 to 100 mm                                       | 0.03 $\mu$ m                                    | Using Gauge Block Grade K                                                                      |
| <b>III.</b> | <b>ACCELERATION &amp; SPEED</b>                                                                                    |                                                   |                                                 |                                                                                                |
| <b>1.</b>   | Tachometer #<br>( Contact / Non Contact )                                                                          | 10 to 99999 rpm                                   | 0.2% of rdg                                     | Using Digital Tachometer / Rotating Source                                                     |

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| <b>IV.</b> | <b>ACCOUSTIC</b>                                              |                                              |                       |                                                                         |
| <b>1.</b>  | Sound Level Meter <sup>s</sup>                                | 94 & 114 dB                                  | 0.8 dB                | Sound Level Calibrator                                                  |
| <b>V.</b>  | <b>PRESSURE INDICATING DEVICES</b>                            |                                              |                       |                                                                         |
| <b>1.</b>  | Pneumatic Pressure <sup>#</sup><br>(Analog / Digital Gauge)   | 0 to 25 bar                                  | 0.073 bar             | Using Digital Pressure Gauge by Comparison Method as Per DKD – R– 6 – 1 |
|            | Hydraulic Pressure <sup>#</sup><br>(Analog / Digital Gauges ) | 0 to 685 bar                                 | 1.073 bar             |                                                                         |
| <b>2.</b>  | Vacuum Gauge <sup>#</sup><br>(Analog / Digital Gauges )       | ( - ) 0.85 to 0 bar                          | 0.009 bar             | Using Digital Vacuum Gauge by Comparison Method as Per DKD – R– 6 – 1   |
| <b>VI.</b> | <b>TORQUE GENERATING DEVICES</b>                              |                                              |                       |                                                                         |
| <b>1.</b>  | Torque Wrench <sup>s</sup><br>( Type I , II )<br>All Class    | 0.2 to 2 Nm<br>2 to 200 Nm<br>200 to 2000 Nm | 1.5 %<br>1.5%<br>1.5% | Using Torque Wrench Calibration System & Torque Sensors                 |

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| VII. | HARDNESS TESTING MACHINES                                     |                                      |                            |                                         |
|------|---------------------------------------------------------------|--------------------------------------|----------------------------|-----------------------------------------|
| 1.   | Rubber Hardness Tester <sup>\$</sup><br>( Shore A & Shore D ) | 0 to 100 Shore A<br>0 to 100 Shore D | 0.9 Shore A<br>0.9 Shore D | Using Dial Calibration Tester & Fixture |

\* Measurement Capability is expressed as an uncertainty ( $\pm$ ) at a confidence probability of 95%

<sup>\$</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

<sup>#</sup> The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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