

Laboratory

Creative Calibration Services, Shop No. 1/2, First Floor, Punyabhumi Complex, Alka Society Main Road, Rajkot, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2762

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Validity

04.07.2018 to 03.07.2020

Last Amended on -

| Sl.                                  | Quantity Measured / Instrument  | Range/Frequency                 | *Calibration Measurement Capability ( $\pm$ ) | Remarks  |
|--------------------------------------|---|---------------------------------|---|--|
| <b><u>MECHANICAL CALIBRATION</u></b> |   |                                 |   |  |
| <b>1.</b>                            | <b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>   |                                 |   |  |
| 1.                                   | Calipers <sup>s</sup><br>(Vernier/Dial/Digital)<br>L.C.: 10 $\mu$ m<br>L.C.: 20 $\mu$ m                 | 0 to 600 mm<br>0 to 1000 mm     | 13.0 $\mu$ m<br>22.0 $\mu$ m                  | Using Caliper Checker & Gauge Block Set by Comparison Method as per IS 3651  |
| 2.                                   | Depth Gauge <sup>s</sup><br>(Vernier/Dial/Digital)<br>L.C.: 10 $\mu$ m <sup>φ</sup>                     | 0 to 300 mm                     | 12.0 $\mu$ m                                  | Using Caliper Checker & Gauge Block Set by Comparison Method as per IS 4213  |
| 3.                                   | Height Gauge <sup>s</sup><br>(Vernier/Dial/Digital)<br>L.C.: 1 $\mu$ m <sup>φ</sup><br>L.C.: 20 $\mu$ m | 0 to 600 mm<br>0 to 1000 mm     | 8.8 $\mu$ m<br>21.0 $\mu$ m                   | Using Caliper Checker & Gauge Block Set by Comparison Method as per IS 2921  |
| 4.                                   | External Micrometer <sup>s</sup><br>L.C.: 1 $\mu$ m <sup>φ</sup>  | 0 to 100 mm<br>100 mm to 300 mm | 1.6 $\mu$ m<br>5.8 $\mu$ m                    | Using Gauge Block Set & Long Gauge Block Set by Comparison Method as per IS 2967                                   |
| 5.                                   | Inside Micrometer <sup>s</sup><br>L.C.: 10 $\mu$ m  | Up to 1000 mm                   | 12.3 $\mu$ m                                  | Using Gauge Block Set, Long Gauge Block Set & Electronic comparator with Probe by Comparison Method as per IS 2966 |
| 6.                                   | Micrometer Setting Rod <sup>s</sup>   | Up to 275 mm                    | 4.7 $\mu$ m                                   | Using Gauge Block Set, Long Gauge Block Set & Electronic comparator with Probe by Comparison Method                |

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Convenor

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| 7.  | Dial Gauge <sup>§</sup><br>(Plunger Type)<br>L.C.: 1 $\mu\text{m}$ <sup>φ</sup>                     | 0 to 10 mm      | 1.6 $\mu\text{m}$                             | Using Electronic Dial Calibration Tester by Comparison Method                                       |
| 8.  | Dial Gauge <sup>§</sup><br>(Lever Type)<br>L.C.: 1 $\mu\text{m}$ <sup>φ</sup>                       | 0 to 2 mm       | 1.63 $\mu\text{m}$                            | Using Electronic Dial Calibration Tester by Comparison Method                                       |
| 9.  | Bore Gauge With Dial For Transmission Accuracy <sup>§</sup><br>L.C.: 0.1 $\mu\text{m}$ <sup>φ</sup> | Up to 1.0 mm    | 3.1 $\mu\text{m}$                             | Using Electronic Dial Calibration Tester by Comparison Method                                       |
| 10. | Plain Plug Gauge <sup>§</sup>   | 1 mm to 400 mm  | 4.7 $\mu\text{m}$                             | Using Gauge Block Set, Long Gauge Block Set & Electronic Comparator With Probe by Comparison Method |
| 11. | Snap Gauge <sup>§</sup>   | 1 mm to 250 mm  | 3.6 $\mu\text{m}$                             | Using Gauge Block Set by Comparison Method  |
| 12. | Dial Calibration Tester <sup>§</sup><br>L.C.: 0.1 $\mu\text{m}$                                     | Up to 25 mm     | 1.5 $\mu\text{m}$                             | Using Electronic Probe With DRO by Comparison Method  |
| 13. | Electronic Probe with DRO <sup>§</sup><br>L.C.: 0.1 $\mu\text{m}$                                   | Up to 25 mm     | 2.3 $\mu\text{m}$                             | Using Gauge Block & Electronic Probe by Comparison Method   |
| 14. | Bevel Protractor <sup>§</sup><br>L.C.: 5 min  | 0° - 90° - 0°   | 4.1 min of Arc                                | Using Gauge Block Set; Sine Bar & Surface Plate by Comparison Method                                |
| 15. | Depth Micrometer <sup>§</sup><br>L.C.: 10 $\mu\text{m}$   | 0 to 300 mm     | 12.1 $\mu\text{m}$                            | Using Gauge Block Set by Comparison Method  |

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| 16. | Thread Measuring Wire / Measuring Pin <sup>§</sup>                | 0.1 mm to 10 mm | 1.5 $\mu$ m                                   | Using Electronic Probe by Comparison Method                              |
| 17. | Pistol Caliper <sup>§</sup><br>L.C.: 100 $\mu$ m                  | Up to 50 mm     | 40.0 $\mu$ m                                  | Using Gauge Block Set by Comparison Method                               |
| 18. | Dial Snap Gauge <sup>§</sup><br>L.C.: 1 $\mu$ m                   | 1 mm to 100 mm  | 1.5 $\mu$ m                                   | Using Gauge Block Set by Comparison Method                               |
| 19. | Dial Thickness Gauge <sup>§</sup><br>L.C.: 10 $\mu$ m             | Up to 50 mm     | 7.9 $\mu$ m                                   | Using Gauge Block Set by Comparison Method                               |
| 20. | Dial Caliper Gauge <sup>§</sup><br>(Internal)<br>L.C.: 10 $\mu$ m | Up to 100 mm    | 12.8 $\mu$ m                                  | Using Gauge Block Set & Gauge Block Accessories Set by Comparison Method |
| 21. | Dial Caliper Gauge <sup>§</sup><br>(External)<br>L.C.: 10 $\mu$ m | Up to 100 mm    | 7.9 $\mu$ m                                   | Using Gauge Block Set by Comparison Method                               |
| 22. | Feeler Gauge <sup>§</sup>   | Up to 1 mm      | 1.7 $\mu$ m                                   | Using Electronic Probe by Comparison Method                              |
| 23. | Plain Ring Gauge <sup>§</sup>                                     | 2 mm to 100 mm  | 3.7 $\mu$ m                                   | Using LLM & Master Plain Ring Gauge by Comparison Method                 |
| 24. | Thread Plug Gauge <sup>§</sup><br>(Effective Dia. Only)           | 2 mm to 200 mm  | 3.8 $\mu$ m                                   | Using LLM & Thread Measuring Wire by Comparison Method                   |

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| 25. | Thread Ring Gauge <sup>§</sup><br>(Effective Dia. Only) | 2 mm to 100 mm  | 5.3 $\mu$ m                                   | Using LLM & Master Plain Ring Gauge by Comparison Method |

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

<sup>§</sup>Only in Permanent Laboratory

<sup>¶</sup>Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.