

**Laboratory** Reliance Calibration Laboratory, Sr. No. 21/7 (Gokul Nagar, Narhe),  
Laygude Estate, Dhayari-Sinhgad Road, Pune, Maharashtra  
Location 1: Sr. No. 21/7 (Gokul Nagar, Narhe), Laygude Estate, Dhayari-Sinhgad Road, Pune, Maharashtra  
Location 2: Burhani Complex, Gat No. 214/1, Pune - Nashik Highway, Nanekarwadi, Chakan, Pune, Maharashtra

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

**Certificate Number** CC-2876 (In lieu of C-0333)

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**Validity** 19.10.2018 to 18.10.2020

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| Sl.                                  | Quantity Measured / Instrument                                                       | Range/Frequency                                                                                                    | *Calibration Measurement Capability ( $\pm$ )                                                | Remarks                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b><u>MECHANICAL CALIBRATION</u></b> |                                                                                      |                                                                                                                    |                                                                                              |                                                                  |
| <b>Location:1</b>                    |                                                                                      |                                                                                                                    |                                                                                              |                                                                  |
| <b>I.</b>                            | <b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>                            |                                                                                                                    |                                                                                              |                                                                  |
| <b>1.</b>                            | Caliper <sup>\$</sup><br>(Digital/ Dial/Analogue)<br>L.C.0.01 mm<br><br>L.C. 0.02 mm | 0 to 600 mm<br>0 to 1000 mm<br><br>0 to 600 mm<br>0 to 1000 mm<br>0 to 2000 mm                                     | 14.0 $\mu$ m<br>19.0 $\mu$ m<br><br>17.0 $\mu$ m<br>26.0 $\mu$ m<br>30.0 $\mu$ m             | Using Caliper Checker &<br>Long Gauge Block Set                  |
| <b>2.</b>                            | External Micrometer <sup>\$</sup><br>L.C. 0.001 mm<br><br>L.C. 0.01 mm               | 0 to100 mm<br>100 mm to 200 mm<br>200 mm to 300 mm<br><br>300 mm to 400 mm<br>400 mm to 600 mm<br>600 mm to1000 mm | 2.0 $\mu$ m<br>2.5 $\mu$ m<br>3.3 $\mu$ m<br><br>4.5 $\mu$ m<br>7.0 $\mu$ m<br>11.60 $\mu$ m | Using Gauge Blocks &<br>Long Gauge Blocks                        |
| <b>3.</b>                            | Height Gauge <sup>\$</sup><br>(Dial /Digital)<br>L.C. 0.01 mm                        | 0 to 300 mm<br>0 to 600 mm<br>0 to 1000 mm                                                                         | 14.0 $\mu$ m<br>19.0 $\mu$ m<br>25.0 $\mu$ m                                                 | Using Caliper Checker/<br>Long Gauge Block Set,<br>Surface Plate |

**Mohit Kaushik**  
Convenor

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Program Manager

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|-----|--------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------|
|     | L.C. 0.02 mm                                                             | 0 to 300 mm<br>0 to 600 mm<br>0 to 1000 mm<br>0 to 1500 mm | 17.0 $\mu$ m<br>21.0 $\mu$ m<br>28.0 $\mu$ m<br>30.0 $\mu$ m |                                                                       |
| 4.  | Depth Gauge <sup>\$</sup><br>L.C. 0.01 mm<br>L.C. 0.02 mm                | 0 to 600 mm<br>0 to 600 mm                                 | 15.0 $\mu$ m<br>19.0 $\mu$ m                                 | Using Gauge Blocks, Caliper Checker, Long Gauge Block & Surface Plate |
| 5.  | Depth Micrometer <sup>\$</sup><br>L.C. 0.001 mm<br>L.C. 0.01 mm          | 0 to 300 mm<br>0 to 300 mm                                 | 6.5 $\mu$ m<br>8.0 $\mu$ m                                   | Using Gauge Blocks & Surface Plate                                    |
| 6.  | Plunger Type Dial Indicator <sup>\$</sup><br>L.C. 0.001 mm               | 0 to 25 mm<br>0 to 50 mm                                   | 1.5 $\mu$ m<br>2.3 $\mu$ m                                   | Using Automatic Dial Calibration Tester                               |
| 7.  | Lever Type Dial Indicator <sup>\$</sup><br>L.C. 0.001 mm<br>L.C. 0.01 mm | 0 to 1 mm<br>0 to 1 mm                                     | 1.5 $\mu$ m<br>3.5 $\mu$ m                                   | Using Automatic Dial Calibration Tester                               |
| 8.  | Bore Gauge <sup>\$</sup><br>(Transmission Accuracy)                      | 2.0 mm                                                     | 2.4 $\mu$ m                                                  | Using Automatic Dial Calibration Tester                               |
| 9.  | Dial Thickness Gauge <sup>\$</sup><br>L.C. 0.001 mm<br>L.C. 0.01 mm      | 0 to 2 mm<br>0 to 50 mm                                    | 4.0 $\mu$ m<br>8.0 $\mu$ m                                   | Using Gauge Blocks                                                    |

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|-----|---------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|
| 10. | Pistol Caliper \$<br>L.C. 0.01 mm<br>L.C. 0.1 mm                                | 0 to 50 mm<br>0 to 50 mm                                 | 8.0 $\mu$ m<br>65.4 $\mu$ m                   | Using Gauge Blocks                                                    |
| 11. | Outside caliper\$<br>L.C. 0.001 mm<br>L.C. 0.01 mm                              | 0 to 2 mm<br>0 to 50 mm                                  | 4.0 $\mu$ m<br>8.0 $\mu$ m                    | Using Gauge Blocks                                                    |
| 12. | Plain Plug Gauge/<br>Pin Gauge/ Cylindrical<br>Setting Standard/<br>OD Master\$ | 0 to 100 mm<br>100 mm to 175 mm<br>175 mm to 375 mm      | 1.5 $\mu$ m<br>2.6 $\mu$ m<br>4.0 $\mu$ m     | Using Comparator EMI /<br>Gauge Block set & ULM                       |
| 13. | Feeler Gauge\$                                                                  | Up to 2 mm                                               | 1.5 $\mu$ m                                   | Using Comparator Stand<br>with Electronic Micro<br>indicator          |
| 14. | Width Gauge\$                                                                   | 0 to 175 mm<br>175 mm to 375 mm                          | 2.6 $\mu$ m<br>3.5 $\mu$ m                    | Using ULM/Long Gauge<br>Block Set & Micro<br>Indicator/ Surface Plate |
| 15. | Height Blocks\$                                                                 | 0 to 175 mm<br>175 mm to 375 mm                          | 2.6 $\mu$ m<br>3.5 $\mu$ m                    | Using ULM/Long Gauge<br>Block Set & Micro<br>Indicator/ Surface Plate |
| 16. | Micrometer Setting<br>Standards\$                                               | 0 to 175 mm<br>175 mm to 600 mm<br>600 mm to 1000 mm     | 2.6 $\mu$ m<br>10.4 $\mu$ m<br>13.9 $\mu$ m   | Using ULM/Long Gauge<br>Block Set & Micro Indicator                   |
| 17. | Snap Gauge\$                                                                    | 0.5 mm to 100 mm<br>100 mm to 200 mm<br>200 mm to 350 mm | 2.0 $\mu$ m<br>3.0 $\mu$ m<br>3.2 $\mu$ m     | Using Gauge Blocks &<br>Using ULM                                     |

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|-----|--------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| 18. | Thread Plug Gauge <sup>\$</sup><br>(Only Effective Diameter)       | 1 mm to 100 mm<br>100 mm to 200 mm                     | 4.0 $\mu$ m<br>5.0 $\mu$ m                    | Using FCDM, ULM & thread measuring wires         |
| 19. | Taper Thread Plug Gauge <sup>\$</sup><br>(Only Effective Diameter) | 7 mm to 101.6 mm<br>(1/16" to 4")                      | 4.0 $\mu$ m                                   | Using FCDM, ULM & thread measuring wires         |
| 20. | Thread Ring Gauge <sup>\$</sup><br>(Only Effective Diameter)       | 4 mm to 100 mm<br>100 mm to 200 mm<br>200 mm to 300 mm | 3.6 $\mu$ m<br>5.0 $\mu$ m<br>5.0 $\mu$ m     | Using ULM, Master Setting Ring & T stylus anvils |
| 21. | Taper Thread Ring Gauge <sup>\$</sup><br>(Only Effective Diameter) | 7 mm to 101.6 mm<br>(1/16" to 4")                      | 4.0 $\mu$ m                                   | Using ULM, Master Setting Ring & T stylus anvils |
| 22. | Radius Gauge <sup>\$</sup>                                         | Up to 25                                               | 25.0 $\mu$ m                                  | Using Profile Projector                          |
| 23. | Thread Pitch Gauge <sup>\$</sup>                                   | 55°, 60°<br>0.3 to 6.0                                 | 10.0 min. (Angle)<br>20.0 (Pitch)             | Using Profile Projector                          |
| 24. | Comparator Stand <sup>\$</sup><br>(Work Table Flatness)            | Up to 200mm x<br>200mm (Base)                          | 4.0 $\mu$ m                                   | Using Elec. Micro Indicator                      |
| 25. | Plain Taper Plug Gauge <sup>\$</sup>                               | 2.0mm to 200 mm                                        | 3.5 $\mu$ m                                   | Using ULM, Gauge Block Set, T.M.W.               |
| 26. | Plain Taper Ring Gauge <sup>\$</sup>                               | 5.0mm to 200mm                                         | 4.1 $\mu$ m                                   | Using ULM, Gauge Block Set, T.M.W.               |

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|-----|----------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|
| 27. | Right Angle / Angle Plate <sup>\$</sup>                                          | Up to 300mm                                                        | 9.0 $\mu$ m                                              | Using Electronic Probe With Square Master        |
| 28. | "V" Block Parallelism & Symmetry <sup>\$</sup>                                   | Up to 150 mm                                                       | 6.6 $\mu$ m                                              | Using Std. Cyl. Mandrel & Elect. Micro Indicator |
| 29. | Plain Ring Gauge <sup>\$</sup>                                                   | 2.0mm to 100 mm<br>100mm to 200 mm<br>200mm to 370mm               | 2.0 $\mu$ m<br>2.5 $\mu$ m<br>3.0 $\mu$ m                | Using ULM & Master Ring                          |
| 30. | Internal Micrometer Jaw Type <sup>\$</sup><br>L.C. 0.01 mm                       | 5.0 mm to 30 mm                                                    | 3.5 $\mu$ m                                              | Using Gauge Block Set & Accessories & ULM        |
| 31. | Internal Micrometer Stick Type <sup>\$</sup><br>L.C. 0.01 mm                     | 50 mm to 300 mm<br>50mm to 1000 mm (400 Ext Rod)<br>50mm to 1500mm | 4.5 $\mu$ m<br>7.0 $\mu$ m<br>8.0 $\mu$ m<br>7.0 $\mu$ m | Using Gauge Block Set & Accessories & ULM        |
| 32. | Bevel protractor/ Combination Set <sup>\$</sup> (Analog/Digital)                 | 0 to 360° (5min)<br>180° (1°)<br>0 to 360° (1 min)                 | 5.8 Min<br>35 Min<br>3.0 Min                             | Using Angle gauge blocks                         |
| 33. | Internal Calipers <sup>\$</sup><br>L.C. 0.01 mm<br>L.C. 0.10 mm<br>L.C. 0.0025mm | Up to 100 (or 2mm Dial Travel)                                     | 11.0 $\mu$ m<br>75.0 $\mu$ m<br>4.0 $\mu$ m              | Using gauge blocks and accessories               |
| 34. | Dial Calibration Tester <sup>\$</sup><br>L.C. 0.0001mm                           | Up to 25mm                                                         | 1.3 $\mu$ m                                              | Using Elec. Micro Indicator                      |

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| 35. | Dial Snap Gauge <sup>\$</sup>                               | 0.5mm to100 mm<br>100mm to 200mm<br>200mm to300mm                                 | 2.2 $\mu$ m<br>2.4 $\mu$ m<br>3.1 $\mu$ m                    | Using Gauge Blocks Set And Electronic Micro indicator         |
| 36. | Electronic Height Gauge <sup>\$</sup><br>L.C. 0.0001 mm     | 0 to 600 mm<br>0 to1000 mm                                                        | 6.0 $\mu$ m<br>12.0 $\mu$ m                                  | Using Long gauge blocks                                       |
| 37. | Gauge Blocks <sup>\$</sup>                                  | Up to 10 mm<br>From 10 mm to 25 mm<br>From 25 mm to 50 mm<br>From 50 mm to 100 mm | 0.11 $\mu$ m<br>0.14 $\mu$ m<br>0.19 $\mu$ m<br>0.33 $\mu$ m | Using Gauge Block Calibrator & K Grade Gauge Block Set        |
| 38. | Spirit Level <sup>\$</sup><br>L.C.0.01 mm/m                 | $\pm$ 0.200mm/mt                                                                  | 0.01mm/m                                                     | Using Electronic Level                                        |
| 39. | Electronic Level <sup>\$</sup><br>L.C.: 0.001 mm/mt         | $\pm$ 2.0 mm/mt.<br>$\pm$ 5.0 mm mt.                                              | 6.0 $\mu$ m/m<br>8.0 $\mu$ m/m                               | Using Tilting device with Electronic Level.                   |
| 40. | Sine Bar & Sine Enter <sup>\$</sup><br>(Angular Accuracies) | Up to 300                                                                         | 13.5 sec                                                     | Using angle gauge blocks Gauge blocks & Lever type Dial Gauge |
| 41. | Spline Plug Gauge <sup>\$</sup>                             | Up to 150 DOP                                                                     | 2.25 $\mu$ m                                                 | Using ULM /Pin Gauge Set                                      |
| 42. | Spline Ring Gauge <sup>\$</sup>                             | Up to 150 DIP                                                                     | 2.30 $\mu$ m                                                 | Gauge Block Set & Pin Gauge Set                               |

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|-----|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 43. | Measuring Tape <sup>\$</sup>                                         | 1,2,10,15,20,30 & 50meter                                                                            | 125 $\mu$ m                                                                                                      | Tape & Scale Calibration Machine                                 |
| 44. | Measuring Scale <sup>\$</sup>                                        | Up to 1 Meter                                                                                        | 125 $\mu$ m                                                                                                      | Tape & Scale Calibration Machine                                 |
| 45. | Electronic Probe <sup>\$</sup><br>(LVDT)<br>L.C.: 0.0001 mm          | 0 to 25 mm                                                                                           | 0.5 $\mu$ m                                                                                                      | Using '0' Gr. Gauge Block Set                                    |
| 46. | Height Gauge*<br>(Dial /Digital)<br>L.C. 0.01 mm<br><br>L.C. 0.02 mm | 0 to300 mm<br>0 to 600 mm<br>0 to1000mm<br><br>0 to300 mm<br>0 to 600 mm<br>0 to1000mm<br>0 to1500mm | 14.0 $\mu$ m<br>19.0 $\mu$ m<br>25.0 $\mu$ m<br><br>17.0 $\mu$ m<br>21.0 $\mu$ m<br>28.0 $\mu$ m<br>30.0 $\mu$ m | Using Caliper Checker/<br>Long Gauge Block Set,<br>Surface Plate |
| 47. | Surface Plate*                                                       | 3000 mmX 3000mm                                                                                      | $1.27 \sqrt{\frac{L+W}{150}}$                                                                                    | Using Electronic level<br>L.C. 1 $\mu$ m/m                       |
| 48. | Electronic Height Gauge*<br>L.C. 0.0001 mm                           | 0 to 600 mm<br>0 to1000 mm                                                                           | 8.0 $\mu$ m<br>12.0 $\mu$ m                                                                                      | Using Caliper Checker &<br>Long Gauge block Set                  |

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| <b>II.</b>  | <b>TORQUE GENERATING DEVICES</b>                                                       |                                           |                                               |                                                             |
| <b>1.</b>   | Torque Wrench <sup>\$</sup><br>(Type I & II , All Classes)                             | 0.5 to 5 Nm<br>5 to 50 Nm<br>50 to 500 Nm | 2.9% rdg<br>2.4% rdg<br>3.0% rdg              | Using Digital Torque Wrench Tester                          |
| <b>III.</b> | <b>DUROMETER</b>                                                                       |                                           |                                               |                                                             |
| <b>1.</b>   | Hardness<br>Rubber Hardness<br>Tester for Spring force<br>Calibration <sup>\$</sup>    | 0 to 100 Shore A<br>0 to 100 Shore D      | 1.3%<br>1.5%                                  | Using Rubber Hardness Tester Calibrator                     |
| <b>IV.</b>  | <b>DIMENSION (PRECISION INSTRUMENTS)</b>                                               |                                           |                                               |                                                             |
| <b>1.</b>   | Profile Projector *<br>Linear X to Y Axis<br>Angular<br>(Measurement)<br>Magnification | 0 to 200<br>360 Deg.<br>10X, 25X & 50X    | 8.0 $\mu$ m<br>5 min<br>1.6%                  | Using Measuring Glass Scale & Angle Gauge & Digital Caliper |
| <b>2.</b>   | Bench Center*<br>(CotoAxility)                                                         | 0 to 600 mm<br>0 to 1000 mm               | 3.24 $\mu$ m<br>3.24 $\mu$ m                  | Using Test Mandrels & Plunger Dial                          |



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| <b>Location: 2</b> |                                                                  |                 |                                               |                                                             |
| <b>I.</b>          | <b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>        |                 |                                               |                                                             |
| <b>1.</b>          | Caliper <sup>\$</sup><br>(Digital/Dial/Analogue)<br>L.C. 0.01 mm | 0 to 600 mm     | 15.0 $\mu$ m                                  | Using Caliper Checker                                       |
| <b>2.</b>          | External Micrometer <sup>\$</sup><br>L.C. 0.001 mm               | 0 to 200 mm     | 2.5 $\mu$ m                                   | Using Gauge Blocks                                          |
| <b>3.</b>          | Height Gauge <sup>\$</sup><br>(Dial/Digital)<br>L.C. 0.01 mm     | 0 to 600 mm     | 19 $\mu$ m                                    | Using Caliper Checker, Surface Plate                        |
| <b>4.</b>          | Depth Gauge <sup>\$</sup><br>L.C. 0.01 mm                        | 0 to 300 mm     | 15.0 $\mu$ m                                  | Using Depth Gauge Checker & Surface Plate                   |
| <b>5.</b>          | Depth Micrometer <sup>\$</sup><br>L.C. 0.001 mm                  | 0 to 300 mm     | 7.4 $\mu$ m                                   | Using Depth Gauge Checker & Surface Plate                   |
| <b>6.</b>          | Plunger Type Dial Indicator <sup>\$</sup><br>L.C. 0.001 mm       | 0 to 10 mm      | 1.5 $\mu$ m                                   | Using Electronic Dial Calibration tester                    |
| <b>7.</b>          | Lever Type Dial Indicator <sup>\$</sup><br>L.C. 0.001 mm         | 0 to 1 mm       | 1.9 $\mu$ m                                   | Using Electronic Micro Indicator on Dial Calibration Tester |
| <b>8.</b>          | Bore Gauge <sup>\$</sup><br>(Transmission Accuracy)              | 1.0 mm          | 2.5 $\mu$ m                                   | Using Electronic Micro indicator on Dial Calibration Tester |

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| 9.  | Dial Thickness Gauge/<br>Pistol Caliper / Outside Caliper <sup>\$</sup><br>L.C. 0.01 mm | 0 to 50 mm                         | 10.7 $\mu$ m                                  | Using Gauge Blocks                                        |
| 10. | Plain Plug gauge /<br>Pin Gauge/ Cylindrical setting standard/OD Master <sup>\$</sup>   | 1 mm to 100 mm<br>100 mm to 175 mm | 1.9 $\mu$ m<br>2.6 $\mu$ m                    | Using Comparator EMI / Gauge Block set                    |
| 11. | Feeler Gauge / Thickness foils <sup>\$</sup>                                            | Up to 2 mm                         | 1.5 $\mu$ m                                   | Using Comparator Stand with Electronic Micro indicator    |
| 12. | Length Bar/Width Gauge/Height Blocks<br>Micrometer Setting Standards <sup>\$</sup>      | 0 to 200 mm<br>0 to 200 mm         | 3.5 $\mu$ m<br>10.4 $\mu$ m                   | Using Gauge Block Set & Micro Indicator/<br>Surface plate |
| 13. | Snap Gauge <sup>\$</sup>                                                                | 0.5 mm to 200 mm                   | 3.0 $\mu$ m                                   | Using Gauge Blocks & Using ULM                            |
| 14. | Thread Plug Gauge <sup>\$</sup><br>(Only Effective Diameter)                            | 1 mm to 100 mm                     | 4.0 $\mu$ m                                   | Using FCDM & Thread Measuring Wires                       |
| 15. | Bevel Protractor/<br>Combination Set <sup>\$</sup><br>(Analog/Digital)                  | 0 to 360°(5 min)                   | 5.8 Min                                       | Using Angle Gauge Blocks                                  |

**Mohit Kaushik**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** Reliance Calibration Laboratory, Sr. No. 21/7 (Gokul Nagar, Narhe),  
Laygude Estate, Dhayari-Sinhgad Road, Pune, Maharashtra  
Location 1: Sr. No. 21/7 (Gokul Nagar, Narhe), Laygude Estate, Dhayari-  
Sinhgad Road, Pune, Maharashtra  
Location 2: Burhani Complex, Gat No. 214/1, Pune - Nashik Highway,  
Nanekarwadi, Chakan, Pune, Maharashtra

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

**Certificate Number** CC-2876 (In lieu of C-0333)

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**Validity** 19.10.2018 to 18.10.2020

**Last Amended on** 26.10.2018

| Sl. | Quantity Measured / Instrument                               | Range/Frequency                         | *Calibration Measurement Capability ( $\pm$ ) | Remarks                                               |
|-----|--------------------------------------------------------------|-----------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| 16. | Internal Calipers <sup>\$</sup><br>L.C. 0.01 mm              | 5 mm to 100 mm<br>(or 2 mm Dial Travel) | 11.0 $\mu$ m                                  | Using Gauge Blocks and Accessories                    |
| 17. | Dial Snap Gauge for Parallelism of Anvil Faces <sup>\$</sup> | 0.5 mm to 200 mm                        | 2.4 $\mu$ m                                   | Using Gauge Blocks Set And Electronic Micro Indicator |

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

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

\*Only for Site Calibration

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Mohit Kaushik  
Convenor

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Avijit Das  
Program Manager