



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name S.V.ENGINEERING.CENTRE, PLOT NO. E-3, SANJAY COLONY SEC-23., FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2472 Page No. : 1 / 35

Validity 11/02/2020 to 10/02/2022 Last Amended on -

| S.No               | Discipline / Group                                            | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument | Measurement range and additional parameters where applicable(Range and Frequency) | Calibration and Measurement Capability(CMC)(±) | Calibration or Measurement Method or procedure)          |
|--------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|
| Permanent Facility |                                                               |                                                                                                                              |                                                                                   |                                                |                                                          |
| 1                  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Air Gauge Unit L.C. 0.0005 mm                                                                                                | +/-0.04 mm                                                                        | 1.5µm                                          | Using Plain Plug/ Ring Gauge (Type A,B,C)                |
| 2                  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Angle Gauge                                                                                                                  | Upto 90 deg                                                                       | 2sec                                           | Using Sine Bar , Gauge Block & Electronic Probe.         |
| 3                  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bench Centre( Co-axiality , Parallelism )                                                                                    | 1500 mm                                                                           | 4.4µm                                          | Using Level , Standard Mandrels & Lever Type Dial Gauge. |
| 4                  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protector L.C. 5 min                                                                                                   | 0 -180-0 deg                                                                      | 4min                                           | Using Standard Angle Gauge                               |
| 5                  | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bevel Protector L.C. 5 min                                                                                                   | Upto 180 Deg                                                                      | 5sec                                           | Using CMM                                                |



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| 6    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bore Gauge (2 Point)                                                                                                         | 2.0 mm                                                                            | 2.5µm                                          | Using Dial Calibrator Tester/ Gauge Blocks      |
| 7    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bore Gauge (3 Point)                                                                                                         | 100 mm                                                                            | 2.5µm                                          | Using Master Ring Gauge                         |
| 8    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Clinometers / Inclino-meters L. C. : 1'                                                                                      | 0-180-0 deg                                                                       | 40sec                                          | Using Sine Bar , Gauge Blocks.                  |
| 9    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | CNC Machine Tools                                                                                                            | 0 m to 30 m                                                                       | 0.5+L/1000 (L is in mm)µm/m                    | Using Laser Measuring System                    |
| 10   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Coating Thickness Meter ( L. C - 0.001 mm)                                                                                   | 0.01 mm to 1 mm                                                                   | 2.5µm                                          | Using Standard Foils.                           |



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| 11   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Combination Set L.C. 30 min / 1 Degree                                                                                       | 180 deg                                                                           | 35min                                          | Using Sine Bar / Gauge Block & Angle Gauges                      |
| 12   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Comparator stand                                                                                                             | 200x200 mm x mm                                                                   | 2.5µm                                          | Using Gauge Block , Optical Flat, Dial Gauge Spirit Level 10µm/m |
| 13   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cone                                                                                                                         | 360 deg                                                                           | 2sec                                           | Using CMM                                                        |
| 14   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .                                                               | 700 mm                                                                            | 3.0µm/m                                        | Using CMM                                                        |
| 15   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .                                                               | Upto 450 mm                                                                       | 6.0µm/m                                        | Using Gauge Blocks & Cylindrical Square.                         |



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| 16   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth Gauge/Depth Vernier L.C 0.01 mm                                                                                        | Upto 500 mm                                                                       | 15µm                                           | Using Gauge Blocks.                             |
| 17   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth MicrometerL.C. 0.001 mm                                                                                                | Upto 300 mm                                                                       | 3.1µm                                          | Using Gauge Blocks.                             |
| 18   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth/Inside Micro Checker                                                                                                   | 0 mm to 300 mm                                                                    | 1.8µm                                          | Using Gauge Block & Electronic Probe.           |
| 19   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Depth/Inside Micro Checker                                                                                                   | 300 mm                                                                            | 0.22µm/m                                       | Using Laser Measuring System                    |
| 20   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Gauge / Plunger Lever Type DialL.C 0.001 mm                                                                             | Upto 25 mm                                                                        | 0.292µm                                        | Using Dial Calibrator Tester/ Gauge Blocks      |



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| 21   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Snap Gauge                                                                                                              | Upto 200 mm                                                                       | 1.1µm                                          | Using Gauge Blocks.                             |
| 22   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Dial Thickness Gauge/<br>Flush Pin Gauge L.C<br>0.001 mm                                                                     | 0 mm to 25 mm                                                                     | 1µm                                            | Using Gauge Blocks                              |
| 23   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Extensometer                                                                                                                 | 0 mm to 150 mm                                                                    | 1.8µm                                          | Using Gauge Block & Electronic Probe.           |
| 24   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External Micrometer<br>L.C 0.001 mm                                                                                          | 100 mm to 300 mm                                                                  | 1.30µm                                         | Using Gauge Block, Length Bar & Optical Flat.   |
| 25   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External MicrometerL.C<br>0.001 mm                                                                                           | 0 mm to 100 mm                                                                    | 1.0µm                                          | Using Gauge Blocks & Optical Flat.              |



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| 26   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External MicrometerL.C 0.001 mm                                                                                              | 300 mm to 500 mm                                                                  | 4.0µm                                          | Using Gauge Blocks ,optical flat & Length Bars.     |
| 27   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | External MicrometerL.C 0.01 mm                                                                                               | 500 mm to 1500 mm                                                                 | 15.0µm                                         | Using Length Bar.                                   |
| 28   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Filler Gauge                                                                                                                 | Upto 1.0 mm                                                                       | 1.4µm                                          | Using Digital Micrometer                            |
| 29   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge L.C.: 0.01mm                                                                                                    | 0 mm to 1500 mm                                                                   | 9.5µm                                          | Using Gauge Blocks / Length Bar & Electronic Probe. |
| 30   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Digital Electronic Comparator L.C 0.0001 mm)                                                                   | 0 mm to 1000 mm                                                                   | 4.9µm                                          | Using Gauge Block , Electronic Probe & Length Bar.  |



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| 31   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge (Digital Electronic Comparator L.C 0.0001 mm)                                                                   | 0 mm to 600 mm                                                                    | 2.0µm                                          | Using Gauge Block & Electronic Probe.                |
| 32   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Gauge / 2 D Height Gauge L.C 0.0001 mm                                                                                | Upto 2000 mm                                                                      | 0.22µm/m                                       | Using Laser Measuring System                         |
| 33   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Height Micrometer / Check Master L.C. 0.001 mm                                                                               | 0 mm to 600 mm                                                                    | 1.8µm                                          | Using Gauge Blocks & Electronic Probe.               |
| 34   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Inside Dial Caliper ( L C -0.010 mm)                                                                                         | 5 mm to 95 mm                                                                     | 8.0µm                                          | Using Caliper Checker.                               |
| 35   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer L.C 0.001 mm                                                                                             | 5 mm to 50 mm                                                                     | 6.2µm                                          | Using Caliper Checker , Gauge Blocks & Optical Flat. |





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| 36   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Internal Micrometer L.C 0.001 mm                                                                                             | 50 mm to 600 mm                                                                   | 7.0µm                                          | Using Gauge Blocks, Optical Flat, Lever Type Dial Gauge. |
| 37   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Length Standard - (i) Length Bar (Long Gauge Blocks)(ii) Micrometer Setting Rods.(iii) Setting Rods                          | 500 mm                                                                            | 1.5µm                                          | Using Gauge Blocks & Electronic Probe                    |
| 38   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Length Standard - (i) Setting Rods                                                                                           | 500 mm to 1500 mm                                                                 | 12.0µm                                         | Using Gauge Block, Electronic Probe & Length Bar.        |
| 39   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Length Standard - Level Calibrator                                                                                           | 0 mm to 500 mm                                                                    | 2.7µm                                          | CMM                                                      |
| 40   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Scale (L.C - 0.5 mm)                                                                                               | 0 mm to 1000 mm                                                                   | 50.0µm                                         | Using Scale Tape & Calibrator.                           |





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| 41   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Measuring Tape/PI Tape/ Count Meter.                                                                                         | 0 m to 50 m                                                                       | 50µm/m                                         | Using Scale & Tape Calibrator.                  |
| 42   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Micrometer HeadL.C. 0.2 µm                                                                                                   | 0 mm to 50 mm                                                                     | 0.183µm                                        | Using Gauge Block & Electronic Probe.           |
| 43   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Notch                                                                                                                        | 5 mm to 600 mm                                                                    | {{(2.5 +L/250) L is in mm}µm                   | Using CMM                                       |
| 44   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Notch                                                                                                                        | Upto 100 mm                                                                       | 10.2sec                                        | Using Profile Projector                         |
| 45   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pitch Gauge-Angle/Pitch                                                                                                      | 0 mm to 7 mm                                                                      | 2.0µm                                          | Using Profile Projector                         |



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| 46   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Pitch Gauge-Angle/Pitch                                                                                                      | Upto 60 deg                                                                       | 4min                                           | Using Profile Projector                         |
| 47   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical-Cylindrical Pins                                                                                           | Upto 500 mm                                                                       | 1.3µm                                          | Using Gauge Blocks & Electronic Probe.          |
| 48   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical-Measuring Prism                                                                                            | Upto 100 mm                                                                       | 0.7µm                                          | Using Gauge Blocks & Electronic Probe           |
| 49   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical- Plug Gauge                                                                                                | 100 mm to 500 mm                                                                  | 1.3µm                                          | Using Gauge Blocks & Electronic Probe           |
| 50   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical- Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters.                                  | Upto 400 mm                                                                       | 0.22µm/m                                       | Using Laser Measuring System                    |



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| 51   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical- Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters.                                  | Upto 500 mm                                                                       | 3.2µm                                          | Using CMM                                       |
| 52   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical Setting Masters                                                                                            | Upto 500 mm                                                                       | 3.2µm                                          | Using Gauge Block & Electronic Probe.           |
| 53   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Cylindrical-Plug Gauge                                                                                                 | Upto 100 mm                                                                       | 0.7µm                                          | Using Gauge Blocks & Electronic Probe / LMM     |
| 54   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Snap Gauge                                                                                                             | 200 mm to 400 mm                                                                  | 4.0µm                                          | Using Gauge Blocks/ LMM                         |
| 55   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Snap Gauge                                                                                                             | Upto 200 mm                                                                       | 1.0µm                                          | Using Gauge Blocks/ LMM                         |



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| 56   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Snap Gauge                                                                                                             | Upto 500 mm                                                                       | 4.0µm                                          | Using CMM                                                   |
| 57   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Taper Gauge( Ring / Plug)                                                                                              | 0 Deg to 180 Deg                                                                  | 1.2sec                                         | Using CMM                                                   |
| 58   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain Taper Gauge( Ring / Plug)                                                                                              | 0 deg to 180 deg                                                                  | 1.5sec                                         | Using Sine Bar , Gauge Blocks , Standard Pins & Micrometer. |
| 59   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain/Taper Mandrel(Cone Angle)                                                                                              | Upto 500 mm                                                                       | 1.1sec                                         | Using Gauge Blocks , Sine Centre & Dial Indicator.          |
| 60   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain/Taper Mandrel(Variation Of Diameter , Total Run out )                                                                  | Upto 500 mm                                                                       | 2.787µm                                        | Using Gauge Blocks , Sine Centre & Dial Indicator.          |



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| 61   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Plain/Taper Mandrel(Variation Of Diameter , Total Run out , Cone Angle,Straightness, Length)                                 | Upto 500 mm                                                                       | 2.5+ L/250(L is in mm)µm                       | Using CMM                                       |
| 62   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Radius Gauge                                                                                                                 | Upto 700 mm                                                                       | 1.5 + (L/300)(L is in mm)µm                    | Using CMM                                       |
| 63   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Radius Gauge / Radius Chart                                                                                                  | 0.5 mm to 100 mm                                                                  | 6.0µm                                          | Using Profile Projector                         |
| 64   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Receiver Gauge/ C.D Gauge/ Jig Fixtures/ Width Gauge/Limit Gauge                                                             | Upto 700 mm                                                                       | 2.5+(L/250) ( L is in mm)µm                    | Using CMM                                       |
| 65   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Riser Block                                                                                                                  | Upto 300 mm                                                                       | 1.3µm                                          | Using Gauge Block & Electronic Probe.           |



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| 66   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sieve                                                                                                                        | 0.02 mm to 4 mm                                                                   | 5µm                                            | Using Profile projector                         |
| 67   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sieve                                                                                                                        | 4 mm to 100 mm                                                                    | 16µm                                           | Using Digital Caliper                           |
| 68   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Bar(Angle)                                                                                                              | Upto 90 deg                                                                       | 1.56sec                                        | Using CMM                                       |
| 69   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Bar(Angle)                                                                                                              | Upto 90 deg                                                                       | 1.20sec                                        | Using Gauge Blocks & Electronic Probe.          |
| 70   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Bar(Parallelism / Flatness / Centre Distance)                                                                           | Upto 500 mm                                                                       | 3.2µm                                          | Using CMM                                       |



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| 71   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Bar(Parallelism / Flatness / Centre Distance)                                                                           | Upto 500 mm                                                                       | 2micron                                        | Using Gauge Block & Electronic Probe                 |
| 72   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Centre(Angle)                                                                                                           | Upto 90 deg                                                                       | 1.56sec                                        | Using CMM                                            |
| 73   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Centre(Parallelism / Flatness / Centre Distance)                                                                        | Upto 500 mm                                                                       | 3.51µm                                         | Using Gauge Block & Electronic Probe                 |
| 74   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Sine Centre(Parallelism / Flatness / Centre Distance)                                                                        | Upto 500 mm                                                                       | 2.5+(L/250)(L is in mm)µm                      | Using CMM                                            |
| 75   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Slip Gauge Accessories                                                                                                       | 300 mm                                                                            | 2.0µm                                          | Using Gauge Block , Electronic Probe & Optical Flat. |





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| 76   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spline Plug Gauge                                                                                                            | 2 mm to 100 mm                                                                    | 3.3µm                                          | Using Standard Pin , Floating Carriage.         |
| 77   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spline Ring Gauge                                                                                                            | 5 mm to 100 mm                                                                    | 1.0µm                                          | Using Standard Pins & Gauge Blocks              |
| 78   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spline Ring Gauge                                                                                                            | 5 mm to 300 mm                                                                    | 2µm                                            | Using standard Pins, LMM & Gauge Blocks.        |
| 79   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Spline Ring Gauge/<br>Spline Plug Gauge                                                                                      | Upto 500 mm                                                                       | 1.5 + L/300 (L is in mm)µm                     | Using CMM, Standard Pins.                       |
| 80   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Squareness L.C 0.01 µm                                                                                                       | 450 mm                                                                            | 3.208µm                                        | Using Cylindrical Square & electronic Probe     |



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| 81   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Standard Foil Set                                                                                                            | Upto 1 mm                                                                         | 1.4µm                                          | Using Gauge Blocks & Electronic Probe.          |
| 82   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge(Straightness)                                                                                                  | Upto 2000 mm                                                                      | 1.9v(L/100)(L is in mm)µm                      | Using Level                                     |
| 83   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate(Flatness)                                                                                                      | Upto 6000 x 2000 mm                                                               | {1.3v(L + W/100)/1/2L & W is in mm}µm          | Using Precision Level                           |
| 84   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Taper Mandrel(Cone Angle)                                                                                                    | Upto 500 mm                                                                       | 8.1sec                                         | Using CMM                                       |
| 85   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thickness & Elongation Gauge (Dimension Only)                                                                                | 14.7 mm to 81.0 mm                                                                | 10.58µm                                        | Using Digital Caliper                           |



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| 86   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thickness & Elongation Gauge (Dimension Only)                                                                                | 4.8 mm to 33.90 mm                                                                | 10.58µm                                        | Using Digital Caliper                              |
| 87   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Pitch Micrometer L.C 0.001 mm                                                                                         | 0.7 mm to 2.5 mm                                                                  | 4.6µm                                          | Using Standard Wear Check Plug                     |
| 88   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge/ WCP(Plain/Taper)                                                                                          | 1 mm to 100 mm                                                                    | 1.61µm                                         | Using LMM,Cylinder Setting Master/Standard Wires.  |
| 89   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Plug Gauge/ WCP(Plain/Taper)                                                                                          | 100 mm to 400 mm                                                                  | 1.61µm                                         | Using LMM, Cylinder Setting Master/Standard Wires. |
| 90   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Thread Ring Gauge/ Taper Thread Ring Gauge                                                                                   | 100 mm                                                                            | 1.0µm                                          | Using LMM Machine                                  |



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| 91   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Tool Maker / Universal Measuring MicroscopeL.C. 0.001 mm                                                                     | Upto 50 mm                                                                        | 7.12µm                                         | Using Glass Scale.                               |
| 92   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Tool Maker / Universal Measuring MicroscopeL.C. 0.001 mm                                                                     | Upto 500 mm                                                                       | 0.22µm/m                                       | Using Laser Measuring System                     |
| 93   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block ( Parallelism/ Flatness/ Squareness Angle Of "V")                                                                    | Upto 150 mm                                                                       | 7.2µm                                          | Using Gauge Block ,Cylindrical Square & Mandrel. |
| 94   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block ( Parallelism/ Flatness/ Squareness Angle Of "V")                                                                    | Upto 150 mm                                                                       | 9.0sec                                         | Using Angle Gauges & Electronic Probe            |
| 95   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Parallelism/ Flatness )                                                                                             | 200 mm                                                                            | 4.0µm                                          | Using CMM                                        |



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| 96   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | V Block (Squareness of Angle "V" )                                                                                           | 90 °                                                                              | 4.0sec                                         | Using CMM                                          |
| 97   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Caliper L.C 0.01 mm                                                                                                  | 0 mm to 1000 mm                                                                   | 12.0µm                                         | Using Length Bar, Caliper Checker & Gauge Blocks   |
| 98   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Caliper L.C 0.01 mm                                                                                                  | 0 mm to 2000 mm                                                                   | 15.0µm                                         | Using Gauge Blocks & Length Bars.                  |
| 99   | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Vernier Caliper L.C 0.01 mm                                                                                                  | 0 mm to 300 mm                                                                    | 7.4µm                                          | Using Caliper Checker                              |
| 100  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Glass Scales / Glass Grid                                                                                                    | 0 mm to 400 mm                                                                    | 0.22µm/m                                       | Using Laser Measuring System By Comparison Method. |
| 101  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | 3 D Co-ordinate Measuring Machine                                                                                            | 1x1x1 m                                                                           | 6xL(where L is in meter)µm                     | Using Step Gauge & Std. Angle Fixture, Hemisphere. |



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| 102  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Angular Graticule                                                                                                            | 0 degree to 360 degree                                                            | 2.2second                                      | Using Profile Projector                         |
| 103  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Ball Bar System -Ball Bar Calibrator.                                                                                        | 300 mm                                                                            | 1.5+ L/300µm ( L is in mm)                     | CMM                                             |
| 104  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Ball Bar System -Ball Bar Transducer.                                                                                        | 1.0 mm                                                                            | 0.7µm @ 100 mm                                 | LMM / ULM                                       |
| 105  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 1000 mm                                                                           | 0.220µm/m                                      | Using Laser Measuring System                    |
| 106  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 600 mm                                                                            | 4.0µm                                          | CMM                                             |
| 107  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 600 mm                                                                            | 2.1µm                                          | Using Gauge Block & Electronic Probe..          |



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| 108  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 600 mm                                                                            | 4.0µm                                          | CMM                                             |
| 109  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 600 mm to 1000 mm                                                                 | 4.4µm                                          | Using Length Bar & Electronic Probe             |
| 110  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Caliper Checker                                                                                                              | 600 mm to 1000 mm                                                                 | 4.4µm                                          | Using Length Bar & Electronic Probe             |
| 111  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Dial Calibrator Tester0.0001 mm                                                                                              | 25 mm                                                                             | 0.22µm                                         | Using Gauge Blocks.                             |
| 112  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Dial Calibrator Tester0.0001 mm                                                                                              | 25 mm                                                                             | 0.22µm                                         | Using Gauge Blocks.                             |
| 113  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Electronic ProbeL.C 0.01 µm / 0.1 µm                                                                                         | 25 mm                                                                             | 0.12µm                                         | Using Gauge Block.                              |
| 114  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Electronic ProbeL.C 0.01 µm / 0.1 µm                                                                                         | 25 mm                                                                             | 0.22µm/m                                       | Using Laser Measuring System                    |





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| 115  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Floating Carriage DMM L.C 0.02 µmStraightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces.              | 175 mm                                                                            | 3.0µm                                          | Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master. |
| 116  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block                                                                                                                  | 0.5 mm to 10 mm                                                                   | 0.104µm                                        | Using Gauge Block Comparator / Gauge Block                          |
| 117  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block                                                                                                                  | 10 mm to 25 mm                                                                    | 0.107µm                                        | Using Gauge Block Comparator / Gauge Block                          |
| 118  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block                                                                                                                  | 25 mm to 50 mm                                                                    | 0.125µm                                        | Using Gauge Block Comparator / Gauge Block                          |
| 119  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block                                                                                                                  | 50 mm to 100 mm                                                                   | 0.192µm                                        | Using Gauge Block Comparator / Gauge Block.                         |
| 120  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block                                                                                                                  | 50 mm to 100 mm                                                                   | 0.192µm                                        | Using Gauge Block Comparator / Gauge Block.                         |



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| 121  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Gauge Block ComparatorL.C 0.01 µm                                                                                            | 100 mm                                                                            | 0.05µm                                         | Using Standard Gauge Blocks M10.                |
| 122  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 100 mm                                                                            | 0.7µm                                          | Using Gauge Blocks.                             |
| 123  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 1000 mm                                                                           | 0.220µm/m                                      | Using Laser Measuring System                    |
| 124  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 1000 mm                                                                           | 0.220µm/m                                      | Using Laser Measuring System                    |
| 125  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 500 mm                                                                            | 1.0µm                                          | Using Gauge Blocks                              |
| 126  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Standard - (i) Length Bar (Long Gauge Blocks)(ii) Micrometer Setting Rods.(iii) Setting Rods                          | 1000 mm                                                                           | 0.8 µm@300mm                                   | Using Laser Measuring System                    |



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| 127  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length Standard - (i) Length Bar (Long Gauge Blocks)(ii) Micrometer Setting Rods.(iii) Setting Rods                          | 1000 mm                                                                           | 0.22µm/m                                       | Using Laser Measuring System                    |
| 128  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Level/Electronic Level Sensitivity 0.001 mm/m                                                                                | 5 mm/m                                                                            | 0.7second                                      | Using Level Calibrator C/C 500 mm               |
| 129  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Level/Electronic Level Sensitivity 0.001 mm/m                                                                                | 5 mm/m                                                                            | 0.7second                                      | Using Level Calibrator C/C 500 mm               |
| 130  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Optical Flat Type A Flatness                                                                                                 | 100 mm                                                                            | 0.202µm                                        | Using Monochromatic Light,Master Optical Flat.  |
| 131  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Optical Parallel Optics Flats Type B Flatness of Both Faces                                                                  | 100 mm                                                                            | 0.202µm                                        | Using Monochromatic light,Master Optical Flat   |
| 132  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Optical Parallel Optics Flats Type B Flatness of Both Faces                                                                  | 100 mm                                                                            | 0.202µm                                        | Using Monochromatic light,Master Optical Flat   |



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| 133  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Optical Parallel Optics Flats Type B Flatness of Both Faces Grade I And II Size                                              | 100 mm                                                                            | 0.069µm                                        | Using Gauge Block & Comparator.                 |
| 134  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Plain Ring Gauge                                                                                                             | 100 mm to 400 mm                                                                  | 3.0µm                                          | Using Gauge Block & Electronic Probe / LMM      |
| 135  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Plain Ring Gauge                                                                                                             | 2 mm to 100 mm                                                                    | 1.1µm                                          | Using Gauge Block & Electronic Probe/ LMM       |
| 136  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Plain Ring Gauge                                                                                                             | 2 mm to 400 mm                                                                    | 0.35µm/m                                       | Using Laser Measuring System                    |
| 137  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Plain Ring Gauge                                                                                                             | 2 mm to 400 mm                                                                    | 0.22µm/m                                       | Using Laser Measuring System                    |
| 138  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Plain Ring Gauge                                                                                                             | 2 mm to 500 mm                                                                    | 1.5 + L/300µm                                  | CMM                                             |
| 139  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Linear Scale L.C. 0.001 mm                                                                                 | 500 mm                                                                            | 0.22µm/m                                       | Using Laser Measuring System                    |



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| 140  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Linear Scale L.C. 0.001 mm                                                                                 | 500 mm                                                                            | 0.22µm/m                                       | Using Laser Measuring System                    |
| 141  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Magnification Upto 100X ,Linear Scale L.C. 0.001 mmAngular Scale L.C. 1 arc sec                            | 200 mm                                                                            | 3.108µm                                        | Using Glass Scale                               |
| 142  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Magnification Upto 100X ,Linear Scale L.C. 0.001 mmAngular Scale L.C. 1 arc sec                            | 200*360 mm Deg                                                                    | 0.16%                                          | Using Glass Scale & Angle Gauge .               |
| 143  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Magnification Upto 100X ,Linear Scale L.C. 0.001 mmAngular Scale L.C. 1 arc sec                            | 360 deg                                                                           | 2.1second                                      | Using Angle Gauges                              |
| 144  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Magnification Upto 100X ,Linear Scale L.C. 0.001 mmAngular Scale L.C. 1 arc sec                            | 360 deg                                                                           | 2.1second                                      | Using Angle Gauges                              |
| 145  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000                                                                              | 5µm @1000mm                                    | Using Laser Measuring System                    |



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| 146  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 42µm/m                                         | Using Gauge Blocks & Length Bar.                |
| 147  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 42µm/m                                         | Using Gauge Blocks & Length Bar.                |
| 148  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 5µm@1000mm                                     | Using Laser Measuring System                    |
| 149  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 1000 mm                                                                           | 0.5µm@1000mm                                   | Using Laser Measuring System                    |
| 150  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 1000 mm                                                                           | 0.22µm/m                                       | Using Laser Measuring System                    |
| 151  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm                                                                            | 4.0µm                                          | CMM                                             |
| 152  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm                                                                            | 4.0µm                                          | CMM                                             |





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| 153  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm                                                                            | 2.1µm                                          | Using Gauge Block & Electronic Probe.                     |
| 154  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm                                                                            | 2.1µm                                          | Using Gauge Block & Electronic Probe.                     |
| 155  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm to 1000 mm                                                                 | 4.4µm                                          | Using Length Bar & Electronic Probe.                      |
| 156  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Step Gauge                                                                                                                   | 600 mm to 1000 mm                                                                 | 4.4µm                                          | Using Length Bar & Electronic Probe.                      |
| 157  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness TesterL.C 0.01 µm                                                                                          | Ra 5 µm to Rmax 15 µm                                                             | 6.4%                                           | Using Surface Roughness master/ Optical Flat / Step Gauge |
| 158  | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness TesterL.C 0.01 µm                                                                                          | Ra 5 µm to Rmax 15 µm                                                             | 6.4%                                           | Using Surface Roughness master/ Optical Flat / Step Gauge |
| 159  | MECHANICAL-DUROMETER                         | Rubber Hardness Tester(Durometer)                                                                                            | 100 Shore A                                                                       | 0.02                                           | Using Rubber Hardness Calibrator                          |
| 160  | MECHANICAL-DUROMETER                         | Rubber Hardness Tester(Durometer)                                                                                            | 100 Shore D                                                                       | 0.106N                                         | Using Rubber Hardness Calibrator                          |





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| 161  | MECHANICAL-DUROMETER | Using Rubber Hardness Calibrator                                                                                             | 100 Shore A                                                                       | 0.02N                                          | Using Weights                                   |
| 162  | MECHANICAL-DUROMETER | Using Rubber Hardness Calibrator                                                                                             | 100 Shore D                                                                       | 0.02N                                          | Using Weights                                   |



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|---------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|
| Site Facility |                                                               |                                                                                                                              |                                                                                   |                                                |                                                          |
| 1             | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Air Gauge Unit L.C. 0.0005 mm                                                                                                | +/-0.04 mm                                                                        | 1.5µm                                          | Using Plain Plug/ Ring Gauge (Type A,B,C)                |
| 2             | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Bench Centre( Co-axiality , Parallelism )                                                                                    | 1500 mm                                                                           | 4.4µm                                          | Using Level , Standard Mandrels & Lever Type Dial Gauge. |
| 3             | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | CNC Machine Tools                                                                                                            | 0 m to 30 m                                                                       | 0.5+L/1000 (L is in mm)µm/m                    | Using Laser Measuring System                             |
| 4             | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .                                                               | 700 mm                                                                            | 3.0µm/m                                        | Using CMM                                                |
| 5             | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .                                                               | Upto 450 mm                                                                       | 6.0µm/m                                        | Using Gauge Blocks & Cylindrical Square.                 |



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| 6    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Straight Edge(Straightness)                                                                                                  | Upto 2000 mm                                                                      | 1.9v(L/100)(L is in mm)µm                      | Using Level                                                         |
| 7    | MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | Surface Plate(Flatness)                                                                                                      | Upto 6000 x 2000 mm                                                               | {1.3v(L + W/100)/1/2L &W is in mm}µm           | Using Precision Level                                               |
| 8    | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | 3 D Co-ordinate Measuring Machine                                                                                            | 1x1x1 m                                                                           | 6xL(where L is in meter)µm                     | Using Step Gauge & Std. Angle Fixture, Hemisphere.                  |
| 9    | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Floating Carriage DMM L.C 0.02 µmStraightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces.              | 175 mm                                                                            | 3.0µm                                          | Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master. |
| 10   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)                  | Gauge Block ComparatorL.C 0.01 µm                                                                                            | 100 mm                                                                            | 0.05µm                                         | Using Standard Gauge Blocks M10.                                    |



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| 11   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 100 mm                                                                            | 0.7µm                                          | Using Gauge Blocks.                             |
| 12   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 1000 mm                                                                           | 0.220µm/m                                      | Using Laser Measuring System                    |
| 13   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 1000 mm                                                                           | 0.220µm/m                                      | Using Laser Measuring System                    |
| 14   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Length / Universal Measuring MachineL.C 0.01µm                                                                               | 500 mm                                                                            | 1.0µm                                          | Using Gauge Blocks                              |
| 15   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Linear Scale L.C. 0.001 mm                                                                                 | 500 mm                                                                            | 0.22µm/m                                       | Using Laser Measuring System                    |
| 16   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector Linear Scale L.C. 0.001 mm                                                                                 | 500 mm                                                                            | 0.22µm/m                                       | Using Laser Measuring System                    |



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| 17   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Profile Projector<br>Magnification Upto 100X ,Linear Scale L.C. 0.001 mmAngular Scale L.C. 1 arc sec                         | 200*360 mm<br>Deg                                                                 | 0.16%                                          | Using Glass Scale & Angle Gauge .                  |
| 18   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Roundness Tester / Radial / Axial /Straightness.                                                                             | 300x350 mm                                                                        | 0.15µm                                         | Using Gauge Blocks ,Master Cylinder , Hemishphere. |
| 19   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Roundness Tester / Radial / Axial /Straightness.                                                                             | 300x350 mm                                                                        | 0.15µm                                         | Using Gauge Blocks ,Master Cylinder , Hemishphere. |
| 20   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000                                                                              | 5µm @1000mm                                    | Using Laser Measuring System                       |
| 21   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 42µm/m                                         | Using Gauge Blocks & Length Bar.                   |
| 22   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 42µm/m                                         | Using Gauge Blocks & Length Bar.                   |



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| 23   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Scale / Tape Calibrator                                                                                                      | 1000 mm                                                                           | 5µm@1000mm                                     | Using Laser Measuring System                              |
| 24   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness TesterL.C 0.01 µm                                                                                          | Ra 5 µm to Rmax 15 µm                                                             | 6.4%                                           | Using Surface Roughness master/ Optical Flat / Step Gauge |
| 25   | MECHANICAL-DIMENSION (PRECISION INSTRUMENTS) | Surface Roughness TesterL.C 0.01 µm                                                                                          | Ra 5 µm to Rmax 15 µm                                                             | 6.4%                                           | Using Surface Roughness master/ Optical Flat / Step Gauge |