

Laboratory Global Lab, Unit No. 31 & 32, Sethia Industrial Park, Survey No. 39, Satali, Vasai-E, Thane, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2245 **Page** 1 of 3

Validity 20.10.2018 to 19.10.2020 **Last Amended on** -

| Sl. | Quantity Measured / Instrument | Range/Frequency | *Calibration Measurement Capability (\pm) | Remarks |
|--------------------------------------|---|-----------------------|---|--|
| <u>MECHANICAL CALIBRATION</u> | | | | |
| I. | UTM, TENSION CREEP AND TORSION TESTING MACHINE | | | |
| 1. | Force Measuring* System of UTM/CTM | 2 kN to 1000 kN | 0.35 % | Using Proving Ring Calibration of UTM/CTM of Accuracy Class 1 and 2 and Coarser as per IS 1828, Part I |
| | (Compression Mode) | >1000 kN to 3000 kN | 0.35 % | Using Proving Ring and Load Cell Calibration of UTM/CTM of Accuracy Class 2 and Coarser as per IS 1828, Part I |
| II. | DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | | | |
| 1. | Wire Cloth Test Sieves [§] | 32 μ m to 4.75 mm | 7.4 μ m | Using Profile Projector as per IS 460 (Part-1) & IS 460 (Part-3) |
| 2. | Perforated Test Sieves [§] | 4.75 mm to 125 mm | 14.2 μ m | Using Digital Caliper as per IS 460 (Part-2) & IS 460 (Part-3) |
| 3. | Elongation/Flakiness Gauges [#] | Up to 200 mm | 14.2 μ m | Using Digital Caliper as per IS 2386 (Part-1) |
| 4. | Metric Steel Scales [§] L.C.: 1.0 mm | Up to 300 mm | 10 μ m | Using Profile Projector/ Digital Caliper as per IS 1481 |
| 5. | Extensometer [#] L.C.: 0.001 mm | Up to 25 mm | 1.4 μ m | Using Dial Gauge Calibrator as per IS 12872/ BS EN ISO 9513 |

Ashish Kakran
Convenor

Avijit Das
Program Manager

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| 6. | Extensometer Gauge Length [#] | Up to 150 mm | 14.2 μ m | Using Digital Caliper as per IS 12872 BS EN ISO 9513 |
| 7. | Dial Gauge ^s L.C.: 0.001 mm | Up to 25 mm | 1.14 μ m | Using Dial Gauge Calibrator as per IS 2092 |
| 8. | Standard Scale ^s (Glass Scale) L.C.: 0.1 mm | Up to 200 mm | 7.34 μ m | Using Profile Projector as per JIS –B-7541 |
| 9. | Angle Graticule / Angle Protractor ^s L.C.: 1° | Up to 360 ° | 0°0'32" arc | Using Profile Projector as per JIS –B-7541 |
| III. | WEIGHING SCALE AND BALANCE | | | |
| 1. | Mass-Electronic weighing balances with readability* d=0.1 mg or Coarser | Maximum capacity Up to 200g | 0.20 mg | Calibration of Electronic Weighing Balance and Comparator of Class I and Coarser As per OIML R-76-1 |
| 2. | Mass-Electronic weighing balances with readability* d= 1.0 mg or Coarser | Maximum capacity Up to 300g | 1.7 mg | Calibration of Electronic Weighing Balance and Comparator of Class II and Coarser As per OIML R-76-1 |
| 3. | Mass-Electronic weighing balances with readability* d=100 mg or Coarser | Maximum capacity Up to 30kg | 0.47 g | Calibration of Electronic Weighing Balance and Comparator of Class III and Coarser As per OIML R-76-1 |

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| 4. | Mass-Electronic weighing balances with readability* d= 2g or Coarser | Maximum capacity Up to 60 kg | 2.9 g | Calibration of Electronic Weighing Balance and Comparator of Class III and Coarser As per OIML R-76-1 |
| IV. | PRESSURE INDICATING DEVICES | | | |
| 1. | Digital / Analog Pressure Gauge / Pressure Indicator / Pressure Transmitter/ Pressure Switch Instruments # | 0 to 700 bar | 0.63 bar | Using Digital Pressure Gauge as per DKD R-6-1 |
| V. | DIMENSION (PRECISION INSTRUMENTS) | | | |
| 1. | Profile Projector # | 0 to 200 mm (X & Y Direction), L.C.: 0.001 | 5.8 μ m | Using Glass Scale as per JIS B 7184 |
| | | Angle 0 to 360 °, L.C. 1" | 0°0'58" arc | Using Angle Protector as per JIS B 7184 |
| | | Magnification 10X, 20X | 0.021 % | Using Angle Protector as per JIS B 7184 |

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

§ Only in Permanent Laboratory

* Only for Site Calibration

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

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Convenor

Avijit Das
Program Manager