**Scope of Accreditation**

* **Force**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No** | **Parameter / Measured quantity** | **Calibration Method / Ref no / Code no.** | **Range of Measurement**  | **Calibration and Measurement Capability at k = 2** | **Calibration Location** |
| **Compression** | **Tension** |
| 01 | Calibration of testing machine | ISO 7500 : 2004 | 5 N to 300 N | ---- | 0.1 % | SLSI /Site |
| 02 | 300 N to 1000 N | 0.3 % | 0.2 % |
| 03 | 1000 N to 2500 N | 0.3 % | 0.2 % |
| 04 | 2500 N to 10000 N | 0.3 % | 0.3 % |
| 05 | 10 kN to 25 kN | 0.2 % | 0.2 % |
| 06 | 25 kN to 100 kN | 0.2 % | 0.2 % |
| 07 | 100 kN to 400 kN | 0.2 % | --- |
| 08 | 400 kN to 2000 kN | 0.1 % | --- |
| 01 | Calibration of Proving Rings / Load cells | ISO 376 :2004 | 1,780 N to 30,000 N | 5 N | 5 N | SLSI |
| 02 | 30 kN to 100 kN | 10 N | 10 N |
| 100 kN to 200 kN | 10 N | --- |

* **Mass**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No** | **Parameter / Measured quantity** | **Calibration Method / Ref no / Code no.** | **Range of Measurement**  | **Calibration and Measurement Capability at k = 2** | **Calibration Location** |
| 01 | Calibrationof weights | (1) Calibration of weights – Double substitution method DM/M/TM/02 | 1mg - 100mg200mg – 500mg1g – 10g 20g – 100g200g – 500g1kg – 5kg10kg – 20kg | 0.002 mg0.004 mg0.02 mg0.08 mg0.6 mg11 mg27 mg | SLSI |
| 02 | Calibration of Electronic Balances | Calibration of Electronic Balances DM/M/TM/03 | (1)0g - 200gResolution0.0001g0.001g0.01g0.1g(2) 0g – 600gResolution0.001g0.01g0.1g1g |  0.15 mg1.0 mg9.8 mg98 mg 1.1 mg10 mg98 mg0.98 g |  SLSISLSI / site  SLSI / site |
| 03 | Calibration of Electronic Balances | Calibration of Electronic Balances DM/M/TM/03 | (3) 0kg – 2kgResolution0.001g0.01g0.1g1g(4) 0kg – 5kgResolution0.001g0.01g0.1g1g2g(5) 0kg – 20kgResolution0.01g0.1g0.2g1g2g5g |  2.8 mg10 mg98 mg0.98 g 7.9 mg12 mg98 mg0.98 g2.0 g 24 mg0.10 g0.20 g0.98 g2.0 g4.9 g |   SLSI / site  SLSI / site    SLSI / site |

* **Temperature**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No** | **Parameter / Measured quantity** | **Calibration Method / Ref no / Code no.** | **Range** | **Calibration and Measurement Capability at k = 2** | **Calibration Location** |
| 01 | Liquid- in-glass thermometers | DM/T/TM-01 | -80 °C / 50 °C50 °C / 200 °C200 °C / 550 °C | 0.02 °C0.05 °C0.08 °C | SLSI / site |
| 02 | Dial Thermometers | DM/T/TM-02 | -80 °C / 50 °C50 °C / 200 °C200 °C / 550 °C | 0.02 °C0.05 °C0.08 °C | SLSI / site |
| 03 | Digital thermometers with a sensor | DM/T/TM-03 | -80 °C / 50 °C50 °C / 200 °C200 °C / 550 °C | 0.02 °C0.05 °C0.08 °C | SLSI / site |
| 04 | Autoclaves | DM/T/TM-04 | 50 °C / 150 °C | 0.6 °C | SLSI / site |
| 05 | Laboratory furnaces | DM/T/TM-05 | 200 °C / 1000 °C1000 °C / 1450 °C | 0.7 °C2.1 °C | SLSI / site |
| 06 | .Laboratory liquid baths | DM/T/TM-06 | -30 °C / 50 °C50 °C / 200 °C | 0.03 °C0.05 °C | SLSI / site |
| 07 | Laboratory ovens | DM/T/TM-07 | 50 °C / 200 °C | 0.6 °C | SLSI / site |
| 08 | Incubators | DM/T/TM-08 | 0 °C / 50 °C | 0.6 °C | SLSI / site |
| 09 | Cold rooms | DM/T/TM-09 | -40 °C / 20 °C | 0.6 °C | site |
| 10 | PRT’s by comparison method | DM/T/TM-10 | 0 °C / 200 °C200 °C / 420 °C | 0.05 °C0.08 °C | SLSI / site |
| 11 | Thermocouples | DM/T/TM-11 | 0 °C / 200 °C200 °C / 400 °C400 °C / 1000 °C1000 °C / 1450 °C | 0.04°C0.08 °C0.8 °C2.2 °C | SLSI |