**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 | Calibration of weights | (1) Calibration of weights – Double substitution method DM/M/TM/02 | 1mg - 100mg 200mg – 500mg 1g – 10g  20g – 100g 200g – 500g 1kg – 5kg 10kg – 20kg | 0.002 mg 0.004 mg 0.02 mg 0.08 mg 0.6 mg 11 mg 27 mg | SLSI |
| 02 | Calibration of Electronic Balances | Calibration of Electronic Balances DM/M/TM/03 | (1)0g - 200g Resolution 0.0001g 0.001g 0.01g 0.1g  (2) 0g – 600g Resolution 0.001g 0.01g 0.1g 1g | 0.15 mg 1.0 mg 9.8 mg 98 mg    1.1 mg 10 mg 98 mg 0.98 g | SLSI SLSI / site      SLSI / site |
| 03 | Calibration of Electronic Balances | Calibration of Electronic Balances DM/M/TM/03 | (3) 0kg – 2kg Resolution 0.001g 0.01g 0.1g 1g  (4) 0kg – 5kg Resolution 0.001g 0.01g 0.1g 1g 2g  (5) 0kg – 20kg Resolution 0.01g 0.1g 0.2g 1g 2g 5g | 2.8 mg 10 mg 98 mg 0.98 g    7.9 mg 12 mg 98 mg 0.98 g 2.0 g    24 mg 0.10 g 0.20 g 0.98 g 2.0 g 4.9 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 °C 50 °C / 200 °C 200 °C / 550 °C | 0.02 °C 0.05 °C 0.08 °C | SLSI / site |
| 02 | Dial Thermometers | DM/T/TM-02 | -80 °C / 50 °C 50 °C / 200 °C 200 °C / 550 °C | 0.02 °C 0.05 °C 0.08 °C | SLSI / site |
| 03 | Digital thermometers with a sensor | DM/T/TM-03 | -80 °C / 50 °C 50 °C / 200 °C 200 °C / 550 °C | 0.02 °C 0.05 °C 0.08 °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 °C 1000 °C / 1450 °C | 0.7 °C 2.1 °C | SLSI / site |
| 06 | .Laboratory liquid baths | DM/T/TM-06 | -30 °C / 50 °C 50 °C / 200 °C | 0.03 °C 0.05 °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 °C 200 °C / 420 °C | 0.05 °C 0.08 °C | SLSI / site |
| 11 | Thermocouples | DM/T/TM-11 | 0 °C / 200 °C 200 °C / 400 °C 400 °C / 1000 °C 1000 °C / 1450 °C | 0.04°C 0.08 °C 0.8 °C 2.2 °C | SLSI |