

Laboratory Radiant Corporation Pvt. Ltd., Radiant Estate, Plot No. 19B/P1, TSIC Automotive Park, Muppireddypally (Village), Manoharabad (Mandal), Medak (Dist.), Telangana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2781

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Validity 25.07.2018 to 24.07.2020

Last Amended on -

| Sl. | Quantity Measured / Instrument | Range/Frequency | *Calibration Measurement Capability (\pm) | Remarks |
|--|---|-----------------|---|---|
| <u>MECHANICAL CALIBRATION</u> | | | | |
| I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) | | | | |
| 1. | Micrometer ^s (Digital/External) Resolution: 0.001/ 0.01 mm | 0 to 25 mm | 2.0 μ m | Using Gauge Blocks, Optical Flat & Optical Parallel by Comparison Method |
| 2. | Caliper ^s (Vernier/Digital/Dial) Resolution: 0.01/ 0.02 / 0.05 mm | 0 to 300 mm | 10.9 μ m | Using Caliper Checker & Slip Gauges by Comparison Method |

Ram Ashray
Convenor

Avijit Das
Program Manager

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| <u>THERMAL CALIBRATION</u> | | | | |
| 1. | TEMPERATURE | | | |
| 1. | Glass Thermometer ^{\$} | (-) 35 °C to 200 °C | 0.9 °C | Using SSPRT, RTD, Low Temp. Liquid Bath & 6½ DMM/ Indicator by Comparison Method |
| 2. | RTD / Thermocouple Sensor With & Without Indicator, Digital Thermometer With Probe, Temperature Gauge And Dial Thermometer ^{\$} | (-) 35 °C to 200 °C | 0.7 °C | Using SSPRT, RTD, Low Temp. Liquid Bath & 6½ DMM/ Indicator by Comparison Method |
| 3. | RTD / Thermocouple Sensor With & Without Indicator, Digital Thermometer With Probe, Temperature Gauge And Dial Thermometer # | 50 °C to 300 °C 300 °C to 600 °C 600 °C to 900 °C 900 °C to 1200 °C | 1.0 °C 2.2 °C 3.5 °C 6.0 °C | Using RTD, Thermocouples, Dry Block Calibrator & 6½ DMM / Indicator by Comparison Method |
| 4. | Indicator of Oil Bath, Water Bath, Low & High Temp. Bath, Dry Block Calibrator, Thermal Chamber, Environmental Chamber, Oven and Furnace* | (-) 65 °C to 300 °C 300 °C to 600 °C 600 °C to 900 °C 900 °C to 1200 °C | 1.4 °C 2.2 °C 3.1 °C 6.2 °C | Using RTD's, Thermocouples & Indicators by Comparison Method |

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|-----|--|---------------------|---|--|
| 5. | Calibration of Thermal Chamber, Environmental Chamber, Oven and Furnace* | (-) 65 °C to 300 °C | 2.5 °C | Using 9 RTD's, Thermocouples with Data Logger by Comparison Method |

* 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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