



# Aavanira Technologies (P) Ltd.

## LABORATORY SCOPE

Sl	Parameter*/Device Under Calibration	Master Equipment used	Range(s) of Measurement	Calibration and Measurement Capability ( $\pm$ )	Calibration Performed At
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Discipline: Thermal			Group: Temperature		
1	Liquid In Glass Thermometer, Dial , Digital Thermometers.	Using SSPRT with Reference Thermometer. Temperature Source: Stirred liquid bath By comparison method	(-35) to 200 °C	0.19 °C	At lab
2	RTD / PRT/ Thermo-couple Sensor with Indicator or without indicators, Temperature Transmitter with / without indicator, Dial or Digital Thermometer, Recorder with sensor.	Using SSPRT with Dual channel Reference Indicator, Universal Calibrator as readout for Temperature Transmitter without indicator. Temperature Source: Stirred liquid bath By comparison method	(-35) to 200 °C	0.19 °C	Lab / Site
3	RTD / PRT/ Thermo-couple Sensor with Indicator or without indicators, Temperature Transmitter with / without indicator, Dial or Digital Thermometer, Recorder with sensor	Using SSPRT with Dual channel Reference Indicator, Universal Calibrator as readout for Temperature Transmitter without indicator, & Dry bath By comparison method	200 to 600 °C	0.25 °C	Lab / Site
4	Thermocouple with or without indicator, Temperature Transmitter with / without indicator	Using R-Type Thermocouple with Dual channel Reference Indicator, Universal Calibrator as readout for Temperature Transmitter without indicator & Temperature Source: Dry block Calibrator By comparison method	600 to 1200 °C	1.8 °C	At lab
5	Temperature Indicator with sensor of Deep Freezers, Cold Chambers, liquid bath Dry Bath, Refrigerator (single position Calibration)	Using SSPRT with Dual channel Reference Indicator. Temperature by comparison method ( single position calibration)	(-80) to 10 °C	0.08 °C	At lab



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6	Temperature indicator with sensor of Oven, Chambers, Incubators, BOD incubators, water bath, liquid bath, Dry Block calibrator , Furnace ( Using single point calibration )	Using SSPRT with Dual channel Reference Indicator. Temperature by comparison method (single point calibration)	10 to 250 °C	0.1 °C.	At lab
7	Temperature Indicator with sensor of Oven, Chambers, Incubators, BOD incubators, water bath, liquid bath, Dry Block calibrator, Furnace (Using single point calibration)	Using SSPRT with Dual channel Reference Indicator. Temperature by comparison method (single point calibration)	250 to 600 °C	0.4 °C.	At lab
8	Temperature indicator with sensor of muffle Furnace, Dry block calibrator (Using single position calibration)	Using R-Type Thermocouple with Dual channel Reference Indicator By comparison method (Using single position calibration)	600 to 1200 °C	1.8 °C	At lab
9	Environmental Chamber, Cold Chamber, Deep freezer, Ultra Deep freezer, Refrigerator, BOD Incubator, Incubator, Autoclave(Non- medical Purpose Only), Oven. (Industrial Purpose Only)	Using Multipoint Data logger & 4 wire RTD (PT-100) Sensors, (min 9 nos.) at multi position calibration.	(-85 ) to 10 °C	0.70 °C	Site / lab
10	BOD Incubator (Industrial Purpose only) Incubator ,Autoclave, (Non-medical Purpose only), Oven.	Using Multipoint Data logger & 4 wire RTD (PT-100) Sensors, at multi position calibration .	10 to 400 °C	0.8 °C	Site / lab
11	Non-contact type Infrared Thermometers, Pyrometers	Using standard Infrared Thermometer with Black body Calibrator (emissivity: 0.98) by comparison method	50 °C to 500 °C	3 °C	At lab