National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	A. R. LAB & CALIBRATIONS, NO. 56/1, CHELUVA COMPLEX, KOTTIGEPALYA, VISHWANEEDAM POST, MAGADI ROAD, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2143	Page No. :	1 / 3
Validity	14/05/2019 to 13/05/2021	Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
Permanent Facility					
1	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Dial Temperature Gauge, Stem Type Temperature Gauge, Industrial Digital Thermometer	25 °C to 200 °C	0.53°C	Class A RTD Sensor with Temperature Recorder, High Temperature Bath used as Source, OIML R-133 By Comparison Method
2	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Dial Temperature Gauge, Stem Type Temperature Gauge, Industrial Digital Thermometer	-30 °C to 25 °C	0.47°C	Class A RTD Sensor with Temperature Recorder using Low Temperature Bath as source, OIML-R-133 By Comparision Method
3	THERMAL-TEMPERATURE	RTD Sensor with/ without Indicator, Temperature Transmitters with/without Indicator	-30 °C to 25 °C	0.49°C	Class A RTD Sensor with Temperature Recorder using Low Temperature Bath as source, DKD-R-5-1 By Comparison Method
4	THERMAL-TEMPERATURE	RTD Sensors With/ Without Indicator, Temperature Transmitters With/Without Indicator	25 °C to 200 °C	0.94°C	Class A RTD Sensor With Temperature Recorder using High Temperature Bath as source, DKD-R-5-1 By Comparison Method

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5	THERMAL-TEMPERATURE	Thermocouple Sensor with/ without Indicator	200 °C to 600 °C	1.74°C	S Type Thermocouple with Temperature Recorder using Dry Block Furnace as source, Euramet-cg-08-v-2.1 By Comparision Method
6	THERMAL-TEMPERATURE	Thermocouple Sensor with/ without Indicator,	-30 °C to 200 °C	1.74°C	Class A RTD Sensor with Temperature Recorder using Low And High Temperature Bath as source, Euramat-cg-8-v-2.1 By comparison Method
7	THERMAL-TEMPERATURE	Thermocouple Sensor with/ without Indicator,	600 °C to 1200 °C	1.74°C	S Type Thermocouple with Temperature Recorder using Dry Block Furnace as source, Euramet-cg-8-v-2.1 By Comparison Method

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Site Facility					
1	THERMAL-TEMPERATURE	Furnace	200 °C to 1200 °C	5.06°C	N Type Thermocouples with Temperature Recorder DKD-R-5-7 By thermal mapping Method.
2	THERMAL-TEMPERATURE	Humidity Chamber, Environmental Chamber, Salt Spray Chamber	35%RH %RH to 90% RH at 25 °C	1.91%RH	Digital Temperature Humidity Meter DKD-R-5-7 By Comparison Method
3	THERMAL-TEMPERATURE	Oven, Liquid Bath, Freezer, Industrial Incubator, Cold Chamber/Room, Environmental Chamber	-30 °C to 200 °C	2.39°C	RTD Sensors with Temperature Recorder, DKD-R-5-7 By thermal mapping Method.

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.