SCOPE OF ACCREDITATION

Laboratory Name :	VANAVIL CALIBRATIONS PRIVATE LIMITED, S-2, 1ST FLOOR, RISHI MAHARAJ APARTMENT, NO. 250, REDDIYUR MAIN ROAD, INDRANI NAGAR, NARASOTHIPATTI, SALEM, TAMIL NADU, INDIA
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 60 s	0.12 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	60 s to 43200 s	0.8 s to 12.92 s
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Indicator / Controller with Display / Centrifuge / Shaker / Mixer / Rotator / Stirrer / Agitator (Non Contact Type)	Using Tachometer by Direct Method	20 rpm to 20000 rpm	3.44 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer with RPM Source by Comparison Method	20 rpm to 60000 rpm	3.51 rpm
5	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with indicator, Indicator of Pressure Switch	Using Digital Pressure Gauge with Hydraulic Pressure Pump by Comparison Method based on DKD-R 6-1	0 to 700 bar	0.42 bar

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
6	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure (Pneumatic) : Magnehelic Gauge, Manometer, Low Pressure Gauge, Differential Pressure Gauge, Digital Pressure Indicator	Using Digital Pressure Indicator with Screw Pump by Comparison Method based on DKD-R 6-1	0 to 50 mbar	0.03 mbar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure (Pneumatic) : Magnehelic Gauge, Manometer, Vacuum Gauge, Differential Pressure Gauge, Digital Vacuum Indicator	Using Digital Pressure Indicator with Screw Pump by Comparison Method based on DKD-R 6-1	(-)50 mbar to 0	0.036 mbar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Digital / Dial Pressure Gauge, Pressure Transducer with Indicator, Pressure Switch / Pressure Transmitter with Indicator	Using Digital Pressure Gauge with Pneumatic Pressure Pump by Comparison Method based on DKD-R 6-1	0 to 25 bar	0.06 bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Digital & Dial Vacuum Gauge / Vacuum Transmitter / Transducer with Indicator, Vacuum Switch with Indicator	Using Digital Pressure Gauge with Pneumatic Pressure Pump by Comparison Method based on DKD-R 6-1	(-)0.90 bar to 0	0.009 bar

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10	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask & Bottle Top Dispenser, Glass Pipette, Burette, Beaker	Using Semi Micro Balance (Readability : 0.01 mg) based on ISO 4787:2021	1 ml to 10 ml	0.01 ml
11	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask & Bottle Top Dispenser, Volumetric Pipette, Burette, Beaker	Using Semi Micro Balance (Readability : 0.01 mg / 0.1 mg) based on ISO 4787:2021	10 ml to 100 ml	0.06 ml
12	MECHANICAL-VOLUME	Micro Pipette	Using Semi Micro Balance (Readability : 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 8655-6:2022 & ISO/TR 20461:2023	1000 µl to 10000 µl	2.12 µl
13	MECHANICAL-VOLUME	Micro Pipette	Using Semi Micro Balance (Readability : 0.01 mg / 0.1 mg) by Gravimetric method as per ISO 8655-6:2022 & ISO/TR 20461:2023	20 µl to 200 µl	0.14 µl

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
14	MECHANICAL-VOLUME	Micro Pipette	Using Semi Micro Balance (Readability : 0.01 mg / 0.1 mg) by Gravimetric Method as per ISO 8655-6-: 2022 & ISO/TR 20461:2023	200 µl to 1000 µl	0.93 µl
15	MECHANICAL-WEIGHTS	Accuracy class F1 class & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.1 mg) by ABBA method as per OIML R -111	100 g	0.1 mg
16	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	1 g	0.01 mg
17	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	1 mg	0.006 mg

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
18	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	10 g	0.02 mg
19	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	10 mg	0.008 mg
20	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	100 mg	0.01 mg
21	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	2 g	0.01 mg

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Laboratory Name :	VANAVIL CALIBRATIONS PRIVATE LIMITED, S-2, 1ST FLOOR, RISHI MAHARAJ APARTMENT, NO. 250, REDDIYUR MAIN ROAD, INDRANI NAGAR, NARASOTHIPATTI, SALEM, TAMIL NADU, INDIA
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22	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	2 mg	0.006 mg
23	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	20 g	0.02 mg
24	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	20 mg	0.01 mg
25	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.1 mg) by ABBA method as per OIML R -111	200 g	0.2 mg

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
26	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	200 mg	0.02 mg
27	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	5 g	0.02 mg
28	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	5 mg	0.006 mg
29	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.1 mg) by ABBA method as per OIML R -111	50 g	0.06 mg

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30	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	50 mg	0.01 mg
31	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weight & Electronic Weighing Balance (Readability : 0.01 mg) by ABBA method as per OIML R -111	500 mg	0.02 mg
32	THERMAL-TEMPERATURE	RTD, Thermocouple with Indicator / Controller, Digital Thermometer with Sensor / Temperature Transmitter with Indicator / Recorder / Data Logger with sensor	Using Standard RTD / 6½ Digt Mulitimeter with Low Temperature bath by Comparison Method as per DKD-R 5-1	(-)35 °C to 50 °C	0.19 °C
33	THERMAL-TEMPERATURE	RTD, Thermocouple with Indicator / Controller, Digital Thermometer with sensor, Data logger with sensor	Using Standard RTD / 6½ Digt Mulitimeter with Dry bath by Comparison Method as per DKD-R 5-1	50 °C to 400 °C	0.2 °C

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
34	THERMAL-TEMPERATURE	Temperature sensor with Indicator / Controller, Digital Thermometer with sensor, Data Logger with sensor	Using R- Type Thermocouple sensor with 6½ Digt Mulitimeter by Comparison Method as per DKD-R 5-1	400 °C to 600 °C	1.46 °C

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Laboratory Name :	VANAVIL CALIBRATIONS PRIVATE LIMITED, S-2, 1ST FLOOR, RISHI MAHARAJ APARTMENT, NO. 250, REDDIYUR MAIN ROAD, INDRANI NAGAR, NARASOTHIPATTI, SALEM, TAMIL NADU, INDIA		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Site Facility					
1	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 60 s	0.12 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	60 s to 43200 s	0.8 s to 12.92 s
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Indicator / Controller with Display / Centrifuge / Shaker / Mixer / Rotator / Stirrer / Agitator (Non Contact Type)	Using Tachometer by Direct Method	20 rpm to 20000 rpm	3.44 rpm
4	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital & Dial Pressure Gauge / Pressure Transmitter / Transducer with indicator, Indicator of Pressure Switch	Using Digital Pressure Gauge with Hydraulic Pressure Pump by Comparison Method based on DKD-R 6-1	0 to 700 bar	0.42 bar

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure (Pneumatic) : Magnehelic Gauge, Manometer, Low Pressure Gauge, Differential Pressure Gauge, Digital Pressure Indicator	Using Digital Pressure Indicator with Screw Pump by Comparison Method based on DKD-R 6-1	0 to 50 mbar	0.03 mbar
6	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure (Pneumatic) : Magnehelic Gauge, Manometer, Vacuum Gauge, Differential Pressure Gauge, Digital Vacuum Indicator	Using Digital Pressure Indicator with Screw Pump by Comparison Method based on DKD-R 6-1	(-)50 mbar to 0	0.036 mbar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Digital / Dial Pressure Gauge, Pressure Transducer with Indicator, Pressure Switch / Pressure Transmitter with Indicator	Using Digital Pressure Gauge with Pneumatic Pressure Pump by Comparison Method based on DKD-R 6-1	0 to 25 bar	0.06 bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Digital & Dial Vacuum Gauge / Vacuum Transmitter / Transducer with Indicator, Vacuum Switch with Indicator	Using Digital Pressure Gauge with Pneumatic Pressure Pump by Comparison Method based on DKD-R 6-1	(-)0.90 bar to 0	0.009 bar

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (Readability : 0.01 mg)	Using Weights of E1 Class as per OIML R 76-1	0 to 80 g	0.024 mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (Readability : 0.1 mg)	Using Weights of E1Class as per OIML R 76-1	0 to 220 g	0.25 mg
11	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale - Class IIII & Coarser (Readability : 50 g)	Using F1, F2 and M1 Class Weights by Comparison Method as per OIML R 76-1	0 to 120 kg	4.2 g
12	THERMAL-TEMPERATURE	RTD, Thermocouple with Indicator / Controller, Digital Thermometer with Sensor / Temperature Transmitter with Indicator / Recorder / Data Logger with sensor	Using Standard RTD / 6½ Digt Mulitimeter with Low Temperature bath by Comparison Method as per DKD-R 5-1	(-)35 °C to 50 °C	0.19 °C
13	THERMAL-TEMPERATURE	RTD, Thermocouple with Indicator / Controller, Digital Thermometer with sensor, Data logger with sensor	Using Standard RTD / 6½ Digt Mulitimeter with Dry bath by Comparison Method as per DKD-R 5-1	50 °C to 400 °C	0.2 °C

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14	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Heater / Bath / Chamber / Dryer / Oven / Furnace (Single Position Calibrtation)	Using Standard RTD / 6½ Digt Mulitimeter by Comparison Method as per DKD-R 5-7	200 °C to 400 °C	0.22 °C
15	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry / Liquid Bath , Hot Plate, Incubator, Warmer, Oven, Drying / Heating Chamber, Farnace, Sterlizer, Auto Clave (non medical purpose only) (Single Position Calibration)	Using Standard RTD / 6½ Digt Mulitimeter by Comparison Method as per DKD-R 5-7	50 °C to 200 °C	0.19 °C
16	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Heater / Bath / Chamber / Dryer / Oven / Furnace (Single Position Calibration)	Using R-Type Thermocouple sensor with 6½ Digt Mulitimeter by Comparison Method as per DKD-R 5-7	400 °C to 1000 °C	1.57 °C

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17	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezer, Refrigerator, Cold (Room) Chamber, Liquid Bath, Enviromental Chamber, Incubator (Single Position Calibration)	Using Standard RTD / 6½ Digt Mulitimeter by Comparison Method as per DKD -R5-7	(-)80 °C to 50 °C	0.12 °C
18	THERMAL-TEMPERATURE	Temperature sensor with Indicator / Controller, Digital Thermometer with sensor, Data Logger with sensor	Using R- Type Thermocouple sensor with 6½ Digt Mulitimeter by Comparison Method as per DKD-R 5-1	400 °C to 600 °C	1.46 °C

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