



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ECOTECH INSTRUMENTS CENTRE FOR CALIBRATION SERVICES, ECOTECH INSTRUMENTS, K-127, UPSIDC INDL. AREA, SITE-V, KASNA, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2864

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**Validity**

15/09/2020 to 14/09/2022

**Last Amended on**

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	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 Interval / Elapsed Time Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Bench Timer By Comparison Method	1 hr. to 8 hr.	0.25 s to 2.90 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval / Elapsed Time / Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Timer By Comparison Method	>30 min. to 59 min.	0.25s
3	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval / Elapsed Time/ Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Timer by comparison method	30 sec to 30 min.	0.08 s to 0.18 s
4	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / PM10 & 2.5 Sampler / Combo Sampler / Dichotomous Sampler / Gas Sampler	Using Mol Block Roots Meter (PD Meter) By Comparison Method	>50 lpm to 100 lpm	0.52%



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5	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / PM10 & 2.5 Sampler / Combo Sampler / Dichotomous Sampler / Gas Sampler	Using Mol Block With RFM By Comparison Method	10 ccm to 750 ccm	0.46%
6	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / PM10 & 2.5 Sampler / Combo Sampler / Dichotomous Sampler / Gas Sampler	Using Mol Block With RFM By Comparison Method	750 ccm to 50000 ccm	0.45%
7	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Using Orifice Transfer Standard (Top Loading calibrator) By Comparison Method	0.6 m <sup>3</sup> /min to 1.4 m <sup>3</sup> /min	1.09%
8	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Orifice Transfer Standard (Top Loading calibrator)	Using Roots Meter (PD Meter) By Comparison Method	0.6 m <sup>3</sup> /min to 1.4 m <sup>3</sup> /min	0.75%



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9	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Pitot Tube / Anemometer / Wind Speed	Using `L` Type Pitot Tube, Thermal Anemometer & Wind Tunnel By Comparison Method	>0.2 m/s to 4 m/s	8.1 % to 3.2 %
10	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Pitot Tube / Anemometer / Wind Speed	Using `L` Type Pitot Tube & Wind Tunnel By Comparison Method	>4 m/s to 50 m/s	1.3%
11	FLUID FLOW-FLOW MEASURING DEVICES	Volume Dry Gas Meter / Volume Totalizer (Digital / Mechanical)	Using Roots Meter (PD Meter) By Comparison Method	0.01 m <sup>3</sup> to 0.6 m <sup>3</sup> At flow rate 0.6m <sup>3</sup> /hr to 3.6m <sup>3</sup> /hr	1.14%
12	MECHANICAL-ACOUSTICS	Sound Level Calibrator	Using Precision Sound Level Calibrator and Hemi-Anechoic Chamber By Direct Method	94 dB & 114 dB at 1kHz	0.41dB
13	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator By Direct Method	94 dB & 114 dB at 1kHz	0.21dB
14	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure (Absolute) Barometric Pressure Meter/ Indicator (Digital/ Analog)	Using Digital Barometer Pressure Monitor By Comparison Method Method as per DKDR-6-1	400 mbar to 1050 mbar	1.61mbar



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15	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Vacuum) Pressure Gauges (Digital/Analog), Pressure Transmitter, Manometer	Using Digital/Precision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-2	(-)0.8 bar to 0	0.0017bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Vacuum) Pressure Gauges (Digital/Analog), Pressure Transmitter, Manometer	Using Digital/Precision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-2	(-)82 kPa to 0	0.26kPa
17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Low Pressure Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	2959.8 Pa to 9806.6 Pa	5.884Pa



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18	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Low Pressure Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	0 to 98.066 Pa	0.951Pa
19	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Low Pressure Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	98.066 Pa to 2941.98 Pa	1.765 Pa
20	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Low Pressure Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-	9806.60 Pa to 13729.24 Pa	17.161Pa
21	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Fluke Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-1&2	0 to 1994 kPa	0.38kPa



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22	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	0 to 2 bar	0.001bar
23	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/Analog Thermo Hygrometer, Hygrograph, Humidity Sensor with Indicator, Logger	Using Temperature Humidity Meter with Sensor & Humidity Chamber By Comparison Method	20% RH to 95% RH @ ~ 25 °C	1.8%RH
24	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/Analog Thermo Hygrometer, Hygrograph, Temperature Sensor with Indicator / Logger	Using Temperature Humidity Meter with Sensor & Humidity Chamber By Comparison Method Humidity Chamber	>10 °C to 50 °C @ ~ 50% RH	0.67°C
25	THERMAL-TEMPERATURE	Thermocouple/ Thermistor Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temp. Indicator & Dry Block Furnaces By Comparison Method	>50 °C to 600 °C	0.29°C



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26	THERMAL-TEMPERATURE	Thermocouple/ Thermistor Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temp. Indicator & Dry Block Furnaces By Comparison Method	>600 °C to 1100 °C	2.51°C
27	THERMAL-TEMPERATURE	Thermocouple/ Thermistor Sensor with Temperature Indicator and RTD	Using Reference RTD with Low Temperature Block Furnaces By Comparison Method	-25 °C to 100 °C	0.60°C



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Site Facility					
1	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval / Elapsed Time Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Bench Timer By Comparison Method	1 hr. to 8 hr.	0.25 s to 2.90 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval / Elapsed Time / Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Timer By Comparison Method	>30 min. to 59 min.	0.25s
3	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval / Elapsed Time/ Time Totalizer (Digital or Analog)/ Digital Timer/Programmable Timer Stop Watch	Using Digital Timer by comparison method	30 sec to 30 min.	0.08 s to 0.18 s
4	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / PM10 & 2.5 Sampler / Combo Sampler / Dichotomous Sampler / Gas Sampler	Using Digital Laminar Gas Flow Calibrator By Comparison Method	>0.2 lpm to 50 lpm	0.60%





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5	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Using Orifice Transfer Standard (Top Loading calibrator) By Comparison Method	0.6 m <sup>3</sup> /min to 1.4 m <sup>3</sup> /min	1.09%
6	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator By Direct Method	94 dB & 114 dB at 1kHz	0.21dB
7	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure (Absolute) Barometric Pressure Meter/ Indicator (Digital/ Analog)	Using Digital Barometer Pressure Monitor By Comparison Method Method as per DKDR-6-1	400 mbar to 1050 mbar	1.61mbar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Vacuum) Pressure Gauges (Digital/Analog), Pressure Transmitter, Manometer	Using Digital/Precision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-2	(-)0.8 bar to 0	0.0017bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure (Vacuum) Pressure Gauges (Digital/Analog), Pressure Transmitter, Manometer	Using Digital/Precision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-2	(-)82 kPa to 0	0.26kPa



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14	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Fluke Portable Pressure Calibrator By Comparison Method Method as per DKDR-6-1&2	0 to 1994 kPa	0.38kPa
15	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	0 to 2 bar	0.001bar

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