



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ECOTECH INSTRUMENTS CENTRE FOR CALIBRATION SERVICES, K127, UPSIDC INDUSTRIAL AREA, SITE- V, KASNA, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 15/09/2022 to 14/09/2024 **Last Amended on** -

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 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.	0.45 s to 3.41 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.	0.28s
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 s to 30 min.	0.08 s to 0.28 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	Medium Air Near Ambient Conditions Using Mass Flow Controller by comparison method	>50 lpm to 96 lpm	0.46%



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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	Medium Air Near Ambient conditions Using Mol Block With RFM By Comparison Method	10 ccm to 750 ccm	0.51%
6	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / PM10 & 2.5 Sampler / Combo Sampler / Dichotomous Sampler / Gas Sampler	Medium Air Near Ambient Conditions Using Mol Block With RFM By Comparison Method	1000 ccm to 50000 ccm	0.46%
7	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter/ Rotameter/ Dry Gas Meter/ Flow Calibrator/PM2.5/IPm 10Sampler/Comboo Sampler/Dichotomous Sampler/Gas Sampler	Medium Air Near Ambient Conditions Using Orifice Flow Calibrator by Comparison Method	100 lpm to 500 lpm	1.65%



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8	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Digital RDS/ PUF Sampler	Medium Air Near Ambient Conditions Using Orifice Transfer Standard (Top Loading Calibrator) by Comparison Method	0.2 m ³ /min to 0.4 m ³ /min	2.78%
9	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Medium Air Near Ambient Conditions Using Orifice Transfer Standard (Top Loading calibrator) By Comparison Method	0.6 m ³ /min to 1.4 m ³ /min	0.82%
10	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Orifice Transfer Standard (Top Loading calibrator)	Medium Air Near Ambient Conditions Using Roots Meter (PD Meter) By Comparison Method	0.6 m ³ /min to 1.4 m ³ /min	0.6%
11	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Orifice Transfer standard (Top Loading Calibrator)	Medium Air Near Ambient Conditions Using Roots Meter (PD Meter) by Comparison Method	0.2 m ³ /min to 0.6 m ³ /min	2.78%
12	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Pitot Tube / Anemometer / Wind Speed	Medium Air Near Ambient Conditions Using `L` Type Pitot Tube, Thermal Anemometer & Wind Tunnel By Comparison Method	>0.2 to 1 m/s to >1 to 4 m/s	9.0 % to 3.5 %



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13	FLUID FLOW- FLOW MEASURING DEVICES	Velocity - Pitot Tube / Anemometer / Wind Speed	Medium Air Near Ambient Conditions Using `L` Type Pitot Tube & Wind Tunnel By Comparison Method	>4 m/s to 50 m/s	1.33%
14	FLUID FLOW- FLOW MEASURING DEVICES	Volume Dry Gas Meter / Volume Totalizer (Digital / Mechanical)	Medium Air Near Ambient Conditions Using Roots Meter (PD Meter) By Comparison Method	0.01 m ³ to 0.6 m ³ At flow rate 0.6m ³ /hr to 3.6m ³ /hr	4.15%
15	MECHANICAL- ACOUSTICS	Sound Level Calibrator	Using Digital Sound Level Calibrator resolution 0.01dB. Calibration done in Hemi-Anechoic Acoustic Chamber equipped with Online Camera for taking displayed reading without opening Acoustic Chamber by comparison Method as per as per IEC 60942: 2017	94 dB & 114 dB at 1kHz	0.41dB



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16	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Calibrated Sound Level Calibrator . Calibration done in Hemi-Anechoic Acoustic Chamber equipped with Online Camera for taking displayed reading without opening Acoustic Chamber By Direct Method	94 dB & 114 dB at 1kHz	0.21dB
17	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	500 mbar(abs) to 1050 mbar(abs)	0.94mbar
18	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	(-)0.78 bar to 0	0.0017bar



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19	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	(-)80 kPa to 0	0.37kPa
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-6-1	2959.8 Pa to 9806.6 Pa	5.884Pa
21	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



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22	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
23	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
24	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
25	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



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26	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	1.79%rh
27	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/Analog Thermo Hygrometer, Hygrograph, Temperature Sensor with Indicator / Logger @50% RH	Using Temperature Humidity Meter with Sensor & Humidity Chamber By Comparison Method.	>10 °C to 50 °C	0.67°C
28	THERMAL-TEMPERATURE	Thermocouple 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
29	THERMAL-TEMPERATURE	Thermocouple Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temperature Indicator & Dry Block Furnaces By Comparison Method	>50 °C to 600 °C	0.29°C
30	THERMAL-TEMPERATURE	Thermocouple Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temperature Indicator & Dry Block Furnaces By Comparison Method	>600 °C to 1100 °C	2.57°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.	0.45 s to 3.41 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.	0.28s
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 s to 30 min.	0.08 s to 0.28 s
4	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter/Rotameter/Dry Gas Meter/ Flow Calibrator/ PM10 & PM2.5 Sampler/ Combo Sampler/Dichotomous Sampler/Gas Sampler	Medium Air Near Ambient Conditions Using Laminar Gas Flow Calibrator by Comparison Method	>50 LPM to 100 LPM	0.60%



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5	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	Medium Air Near Ambient Conditions Using Digital Laminar Gas Flow Calibrator By Comparison Method	>0.2 lpm to 50 lpm	0.69%
6	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Medium Air Near Ambient Conditions Using Orifice Transfer Standard (Top Loading Calibrator) by Comparison Method	0.6 m3/min to 1.4 m3/min	1.15%
7	MECHANICAL- ACOUSTICS	Sound Level Meter	Using Calibrated Sound Level Calibrator . Calibration done in Hemi-Anechoic Acoustic Chamber equipped with Online Camera for taking displayed reading without opening Acoustic Chamber By Direct Method	94 dB & 114 dB at 1kHz	0.21dB



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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	(-)0.78 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	(-)80 kPa to 0	0.37kPa
10	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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11	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
12	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
13	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
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



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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.