National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EI CENTRE FOR CALIBRATION SERVICES (OPC) PRIVATE LIMITED, K127 UPSIDC IND. AREA SITE- 5 KASNA, GREATER NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4119 **Page No** 1 of 12

Validity 17/11/2024 to 14/09/2026 **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	Using Digital Time Totalizer By Comparison Method	>30 min. to 59 min.	0.05 s to 0.07 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer By Comparison Method	1 hr. to 8 hr.	0.07 s to 3.05 s
3	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by comparison method	30 s to 30 min.	0.015 s to 0.05 s
4	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator / Mass Flow meter / Gas Sampler / Particulate Sampler	Using Mass Flow Controller(Medium Air Near Ambient Conditions) by comparison method	>50 lpm to 100 lpm	0.51 %

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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 / Speciation Sampler	Using Mol Block With RFM (Medium Air Near Ambient Conditions)By Comparison Method	750 ccm to 50000 ccm	0.51 %
6	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter / Rotameter / Gas Sampler	Using Mol Block With RFM (Medium Air Near Ambient conditions)By Comparison Method	10 ccm to 750 ccm	0.81 %
7	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter/ Rotameter/ Dry Gas Meter/ Flow Calibrator/ Gas Sampler/ Particulate Sampler	Using Orifice Flow Calibrator (Medium Air Near Ambient Conditions)by Comparison Method	>100 lpm to 500 lpm	2.15 %
8	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Digital RDS/ PUF Sampler/ Gas Sampler/ Particulate Sampler	Using Orifice Transfer Standard (Top Loading Calibrator)(Medium Air Near Ambient Conditions) by Comparison Method	0.2 m3/min to 0.6 m3/min	4.44 %

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9	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Using Orifice Transfer Standard (Top Loading calibrator) (Medium Air Near Ambient Conditions)By Comparison Method	0.6 m3/min to 1.4 m3/min	1.17 %
10	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Orifice Transfer standard (Top Loading Calibrator)	Using Roots Meter (PD Meter) (Medium Air Near Ambient Conditions)by Comparison Method	0.2 m3/min to 0.6 m3/min	1.92 %
11	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Orifice Transfer Standard (Top Loading calibrator)	Using Roots Meter (PD Meter) (Medium Air Near Ambient Conditions)By Comparison Method	0.6 m3/min to 1.4 m3/min	0.6 %
12	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Anemometer / Wind Speed	Using Thermal Anemometer & Wind Tunnel (Medium Air Near Ambient Conditions)By Comparison Method	>1 m/s to 4 m/s	3.5 %
13	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Anemometer / Wind Speed	Using Thermal Anemometer & Wind Tunnel (Medium Air Near Ambient Conditions)By Comparison Method	0.2 m/s to 1 m/s	8.44 %

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14	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Pitot Tube / Anemometer / Wind Speed	Using `L` Type Pitot Tube & Wind Tunnel (Medium Air Near Ambient Conditions)By Comparison Method	>4 m/s to 50 m/s	1.33 %
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 direct Method as per IEC 60942: 2017	94 dB & 114 dB at 1kHz	0.27 dB

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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	0.45 dB
17	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure (Absolute) Barometric Pressure Meter/ Indicator (Digital/ Analog)	Using Digital Barometer Pressure Monitor and bidirectional positive & negative pressure chamber By Comparison Method Method as per DKDR-6-1	600 mbar(abs) to 1050 mbar(abs)	2.11 mbar
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-6-1	(-)0.78 bar to 0 bar	0.0017 bar

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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-6-1	(-)80 kPa to 0 kPa	0.38 kPa
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	4903.30 Pa to 13729.24 Pa	15.0 Pa
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 Pa to 4903.30 Pa	4 Pa

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22	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Digital Manometer	Using Digital/Précision Pressure Gauge/ Portable Pressure Calibrator By Comparison Method as per Method as per DKDR-6-1	0 to 2 bar	0.005 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Portable Pressure Calibrator with inbuilt pump for pressure and vacuum By Comparison Method Method as per DKDR-6-1&2	0 to 1994 kPa	0.40 kPa
24	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	2.63 % rh
25	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.	>10 °C to 50 °C @50% rh	0.71 °C

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26	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	2.52 °C
27	THERMAL-TEMPERATURE	Thermocouple Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temperature Indicator & Dry Block Furnaces By Comparison Method	>200 °C to 600 °C	3.31 °C
28	THERMAL-TEMPERATURE	Thermocouple Sensor with Temperature Indicator	Using 'R' Type Thermocouple with digital Temperature Indicator & Dry Block Furnaces By Comparison Method	50 °C to 200 °C	0.57 °C
29	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	0.22 °C

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Site Facility					
1	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by comparison method	>30 min. to 59 min.	0.28 s to 0.60 s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by comparison method	1 hr. to 8 hr.	0.60 s to 3.41 s
3	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	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/ Gas Sampler/ Particulate Sampler	Using Laminar Gas Flow Calibrator (Medium Air Near Ambient Conditions)by Comparison Method	>50 LPM to 100 LPM	0.60 %
5	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate Digital RDS/ PUF Sampler/ Gas Sampler/ Particulate Sampler	Using Orifice Transfer Standard (Top Loading Calibrator)(Medium Air Near Ambient Conditions) by Comparison Method	0.2 m3/min to 0.6 m3/min	4.44 %

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7	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate High Volume Sampler / Respirable Dust Sampler / PM10 Sampler	Using Orifice Transfer Standard (Top Loading Calibrator)(Medium Air Near Ambient Conditions) by Comparison Method	0.6 m3/min to 1.4 m3/min	1.09 %
8	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Calibrated Sound Level Calibrator by Direct method	94 dB & 114 dB at 1 kHz	0.45 dB
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-6-1	(-)0.78 bar to 0 bar	0.0017 bar

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14	MECHANICAL-PRESSURE INDICATING DEVICES	Positive Pressure Pneumatic Pressure Gauges Digital/Analog, Pressure Transmitter, Manometer	Using Portable Pressure Calibrator with inbuilt pump for pressure and vacuum By Comparison Method Method as per DKDR-6-1&2	0 to 1994 kPa	0.40 kPa

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