



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

MAHABAL ENVIRO ENGINEERS PRIVATE LIMITED, 704, GYANKRIPA ESTATE, BYPASS ROAD, WARD NO.35, IMLIKHEDA, CHHINDWARA, MADHYA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3422

Page No

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Validity

28/06/2022 to 27/06/2024

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 /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)	Timer, Time Totalizer, Stop watch	Using Digital Time Calibrator(Interval Meter), by Comparison Method	300 s to 3600 s	1.46s
2	FLUID FLOW-FLOW MEASURING DEVICES	Orifice meter (Medium -Air)	Using Top Loading Calibrator by Comparison method,	0.73 m ³ /min to 1.4 m ³ /min	2.66%
3	FLUID FLOW-FLOW MEASURING DEVICES	Pitot Tubes (Medium -Air)	Using 'L' Type Pitot Tube in Wind Tunnel by Comparison method	15 m/s to 25 m/s	3%
4	FLUID FLOW-FLOW MEASURING DEVICES	Rotameter, Diaphragm Gas Meter (Medium -Air)	Using Laminar Flow Calibrator(LFE), By Comparison Method	0.5 LPM to 3 LPM	1.53% of reading
5	FLUID FLOW-FLOW MEASURING DEVICES	Rotameter, Diaphragm Gas Meter (Medium -Air)	Using Laminar Flow Calibrator (LFE), By Comparison Method	3 LPM to 30 LPM	1.55% of reading
6	FLUID FLOW-FLOW MEASURING DEVICES	Rotameter, Diaphragm Gas Meter (Medium -Air)	Using Laminar Flow Calibrator(LFE), By Comparison Method	30 LPM to 60 LPM	0.99%
7	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator , By Comparison method	114 dB	0.82dB



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8	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator, by Comparison Method	94 dB	0.82dB
9	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Analog/Digital Pressure Gauges	Using Digital Process Calibrator with pneumatic hand pump, By Comparison Method based on DKD-R-6.1	0 to 2.5 bar	0.012bar
10	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - (Analog/Digital Gauges)	Using Digital Process Calibrator with pneumatic hand pump, By Comparison Method based on DKD-R-6-2	-0.80 bar to 0	0.028bar
11	THERMAL-TEMPERATURE	RTD with or without Indicator	Using Digital Indicator and RTD with Dry Block Furnace, , Digital thermometer by Comparison Method	-15 °C to 400 °C	0.42°C
12	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using R type thermocouple with Indicator using Dry Block Furnace, Digital Thermometer by Comparison Method	300 °C to 1200 °C	2.65°C



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