



# Mahabal Enviro Engineers Pvt. Ltd.

## Calibration Laboratory

### About Us

We take immense pleasure to introduce Mahabal Enviro Engineers Pvt. Ltd. (MEEPL) as one of the leading company in India that provides diversified services in the domain of environmental consultancy, monitoring, testing and environmental law.

MEEPL has set up a laboratory for calibration of instruments used in air quality monitoring equipment at Chhindwara in Madhya Pradesh. Chhindwara is located 125 kms from Nagpur and is well connected by railways to Nagpur, Bhopal, Delhi, Indore and Jabalpur. I is also connected to major cities via five national highways which pass through it.

The laboratory is located very close to Imlikheda Industrial Area near the crossroad of NH 547 and NH 347.

The calibration laboratory has been accredited to ISO 17025:2017 by the National Accreditation Board for Laboratories (NABL) in 2022 (Certificate No.: CC-3422).

At present the scope of accreditation includes four disciplines, namely Mechanical, Electro-Technical, Fluid Flow and Thermal. Our Accredited Scope document is available on NABL's website. ([Click here](#)).

#### **Our Mission**

The central points of our mission are

- To retain confidence of stakeholders by generating necessary contribution and offering value for money to customers and proactively comply with applicable legal and regulatory requirements.
- To develop capabilities and infrastructure to offer comprehensive calibration service with valid results delivered on time.

#### **Infrastructure:**

MEEPL-CL has invested in a spacious building facility which has 247 square meters of floor area and is equipped with a 62.5 kVA Diesel Generator set and a 20kVA UPS system for uninterrupted power supply.

MEEPL-CL is aiming to rapidly expand its scope of accreditation so as to meet the demand for calibration services of clients in Central and other parts of India.

With the strong backing of the experience and reputation of Mahabal Group, we look forward to a successful working relationship with your esteemed company also in the future.

Best Regards

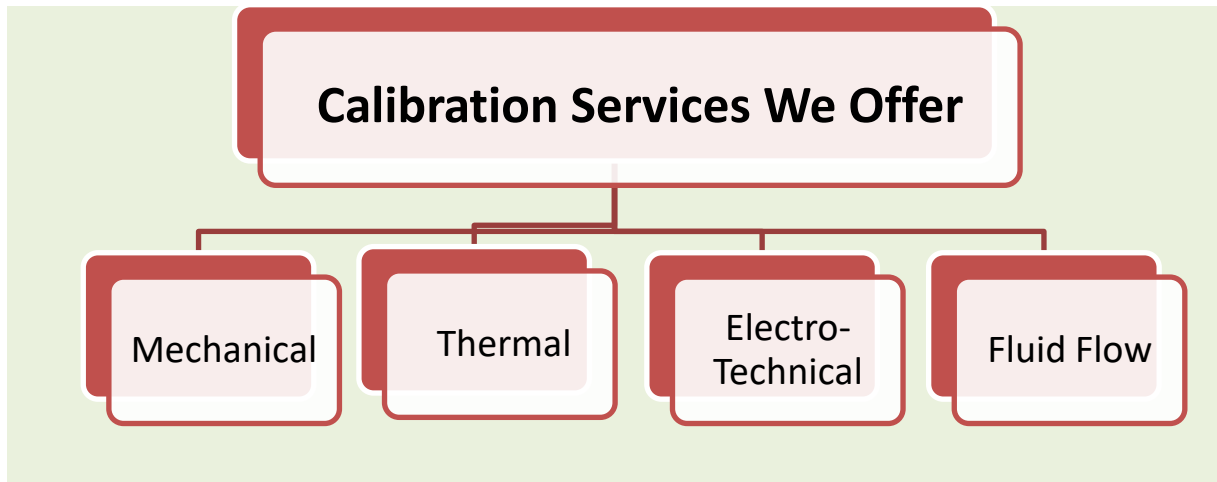
#### **Team**

**Mahabal Enviro Engineers Pvt. Ltd.-Calibration Laboratory  
Chhindwara MP**



# Mahabal Enviro Engineers Pvt. Ltd.

## Calibration Laboratory



### A. Calibration Services

Mechanical	Thermal	Electro-Technical	Fluid Flow
<p><b>Pressure &amp; Vacuum</b></p> <ul style="list-style-type: none"> <li>■ Pneumatic Pressure: Analog/Digital Pressure Gauges 0-2.5 bar</li> <li>■ Vacuum - (Analog/Digital Gauges) -0.8 to 0 bar</li> </ul> <p>Noise Level</p> <ul style="list-style-type: none"> <li>■ Sound Level Meters 94 and 114 dB</li> </ul>	<p><b>Temperature measuring devices</b></p> <ul style="list-style-type: none"> <li>■ RTD with or without Indicators, range -15 to 400 °C</li> <li>■ Thermocouple with or without indicator Range: 300 to 1,200 °C</li> </ul>	<p><b>Time measurement</b></p> <ul style="list-style-type: none"> <li>■ Timer, Time Totalizer, Stop watch Range: 300 to 3,600 Sec.</li> </ul>	<p><b>Air Flow</b></p> <ul style="list-style-type: none"> <li>■ Rotameter, Diaphragm Gas Meter (Medium -Air), Range: 0.5 LPM to 3 LPM, 3 to 30 LPM and 30 to 60 LPM</li> <li>■ Orifice meter (Medium -Air) Range: 0.73 m<sup>3</sup>/min to 1.4 m<sup>3</sup>/min</li> <li>■ Pitot Tubes* (Medium -Air) Range: 15-25 m/sec</li> </ul>

\*Pitot Tube can be calibrated in our permanent facility using a Wind Tunnel. All other parameters can be calibrated at customer site as well as in our permanent facility at Chhindwara.



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## Calibration Laboratory

### CALIBRATION LABORATORY INSTRUMENTS



#### Timer & Stopwatch calibration

**Application:** Used as the reference standard for calibration of Timers and Stopwatches



#### Dry Block Furnace

Model: (CALsys1200) and (CALsys650)  
**Application:** Used as a thermo-well (temperature source) for Thermocouple & RTD calibration.



#### Sound Level Meter Calibration

**Application:** Used as standard noise source for the calibration of Noise Meters.



#### 1.Tempmet 08

**Application:** Temperature Indicator Device (best result with RTD Sensors)

#### 2.Tempmet-09

**Application:** Used as a Temperature Indicator Device (best result with Thermocouple Sensors).



#### Thermocouple

##### 1.Type- R

**Application:** Reference (Nobel Metal) Thermocouple Sensor for Temperature calibration



#### Four Wire Reference Resistance Detector (RTD)

**Application:** Used as a Master RTD Sensor for Temperature calibration in conjunction with Tempmet-08



#### Process Calibrator

**Model:** WIKA-CPH6000  
**Range-** 0 to 8000 Bar  
**Accuracy-** 0.025% FS  
**Application:** Digital Pressure /vacuum Indicator device. Used for the calibration of pressure and vacuum gauges that indicate absolute as well as differential pressure/vacuum



#### Hand Pressure Pump

**Model:** WIKA-CPP7 H  
**Range-** -0.85 to 7 Bar.  
**Application:** Digital Pressure /vacuum Indicator device. Used for the calibration of pressure and vacuum gauges that indicate absolute as



#### Pitot Tube (L-Type)

**Range-** 3 to 30 m/s  
**Application:** Accuracy- 1.1%  
 Used as a reference standard in a Wind Tunnel for the calibration of S-type pitot tubes typically used in Stack Monitoring Kits.

**Head Office:** Plot No. F-7, Road No.21, MIDC Wagle Estate, Thane west-400604, India

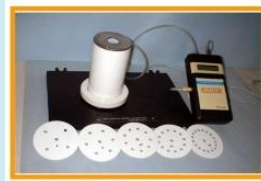
**Calibration Lab:** 704, Gyankripa Estate, Imlikheda Bypass Road, Ward no. 35, Imlikheda, Chhindwara MP 480001

well as differential pressure/vacuum.



### LFE Gas Flow Calibrator

**Application:** Used as a reference standard for calibration of Rotameter as well as Diaphragm Gas Meter for airflow.



### Top Loading Orifice Calibrator

**Application:** Used as a reference standard for the calibration of Orifice flow Meters in RDS.



### Positive Pressure Sensor

**Model: WIKA-CPT6000**

Range- .05 to 2.5 Bar.  
Accuracy- 0.025% FS

**Application:** Digital Pressure /vacuum Indicator device. Used for the calibration of pressure and vacuum gauges that indicate absolute as well as differential pressure/vacuum



### Negative Pressure Sensor

**Model: WIKA CPT6000**

Range- -1 to 2.5 Bar  
Accuracy- 0.025% FS

**Application:** Digital Pressure /vacuum Indicator device. Used for the calibration of pressure and vacuum gauges that indicate absolute as well as differential pressure/vacuum



Wind Tunnel

**For the calibration of S type Pitot Tubes, designed as per ASTM D 3796 standards. Accredited range 15-25 m/sec.**