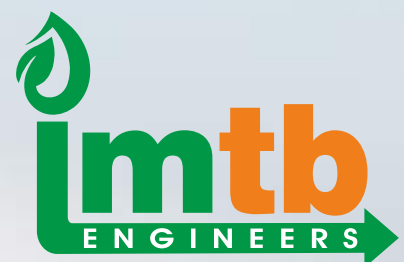


# WE ARE HERE FOR SERVE SOLUTION TO CONTROL POLLUTION



[www.imtbengineers.com](http://www.imtbengineers.com)



## WHY IMTB DESERVES YOU ?



Mr. Suraj (P) Chawla, Is Leading the IMTB With His 23 Years of Vast Experience in The Field of Instrumentation Solutions, Analytical Solutions & Electrical Panels. He Executed Many Turnkey Projects Successfully in Various Segments with His Existing Experienced Team.

IMTB Is Growing With an Experienced Team to Provide the Best Solutions for Fresh and Waste Water, Process and Stack Emission, Ambient Environment, Laboratory Analysis, and Any Type of Automation.

IMTB (Engineers) Pvt Ltd Believes in Serve the Best Education About the Solutions to All Industrialists and PSU's. This Ensures the Acculturation of Their Community and Monitoring to Protect the Environment Through Innovative Ideas and Customized Turnkey Solutions.

OUR DREAM-Focused Area Is to Provide Revolutionary Solutions to the Industries for Pollution Monitoring and Controlling. We Are Eager to Provide the Best Solutions to Minimize the Recurring & Maintenance Cost in Your Industrial Process Along with Critical Application Areas. It Will Helps to All the Industries to Reduce the Downtime & Shutdown of The Process.

Managing Director



# ANALYTICAL PORTFOLIO FOR WATER ANALYSIS & MEASUREMENTS

## pH Sensors and Transmitters



pH measurement is the most important quality-relevant parameter in industrial processes.

## Conductivity Sensors and Transmitters



Conductivity measurement is crucial for process control, product and water monitoring, or leakage detection.

## Oxygen Sensors and Transmitters



Discover our oxygen sensors and transmitters for quality assurance and process control in water, wastewater, chemicals, power plants, life sciences, pharma, food & beverage and fish farming.

## Turbidity Sensors and Transmitters



Discover our turbidity sensors, total solids sensors, suspended solids sensors and turbidity transmitters for

## Disinfection and Chlorine Sensors and Transmitters



Discover our wide range of free chlorine, chlorine dioxide, total chlorine and bromine sensors and transmitters for disinfection of drinking water, reused

## Process Photometers



Process photometers enable accurate and reproducible concentration measurement by determining UV absorption, NIR & VIS.





### **Analyzers for Hardness, Iron, Aluminum, Chromate & Sodium**



Our metal Analyzers for water, wastewater and power plants help supply clean water and achieve safe processes. Discover our range of water hardness, iron, aluminum, chromate and sodium analysers.

### **Nutrient Analyzers and Sensors**



Our nutrient analyzers and sensors help you optimize wastewater treatment processes and keep discharge fees under control. Discover our portfolio for ammonium, nitrate and phosphate analysis and more!

### **BOD, TSS, TOC, COD and SAC Analyzers**



Browse through our wide range of BOD, TSS, TOC, COD & SAC analyzers for municipal and industrial wastewater. They measure total organic carbon, chemical oxygen demand and spectral absorption coefficient.

### **Automatic Water samplers**



Discover our automatic water samplers for monitoring and sampling wastewater, sewer systems, surface waters, rivers, stormwater and more!



## Flow Measurement for Liquids, Gases and Steam

Consistent product quality, safety, process optimization and environmental protection – these are only a few reasons why industrial flow measurement is becoming more important all the time. Water, natural gas, steam, mineral oil, chemicals are some of the fluids that have to be measured day in, day out.

- Coriolis mass flowmeters
- Electromagnetic flowmeters
- Ultrasonic flowmeters
- Vortex flowmeters
- Differential Pressure Measurement
- Thermal Mass flowmeters



## Hydraulic Piezometer with Telemetry

The Hydraulic Piezometer is used for accurately measuring pore water pressures in fully or partially saturated soil and rock. The system comprises a porous ceramic piezometer tip sealed into the measuring horizon and connected to a remote measuring position via twin nylon hydraulically filled tubes.



## Level measurement

Levels in liquids, pastes, bulk solids or liquefied gases are often measured in tanks, silos or movable containers. For continuous, interface and density measurement as well as for point level detection a broad range of measuring principles is available.

Multi Parameter Water Quality Checker

### **U-50 series**

pH / Dissolved oxygen / Electrical conductivity / Turbidity / Oxidation-reduction potential / Salt content / Specific gravity of seawater / Total dissolved solid quantity / Water temperature / Water depth / GPS

Many items can be measured simultaneously with one probe. This portable checker is best for outdoor use, such as measurements of river water, lake water, well water, and ground water.





# UV DISINFECTION SYSTEM FOR DRINKING WATER & WASTEWATER TREATMENT

**IMTB Engineers Pvt Ltd with Arklite has pioneered manufacturing of diversified range of UV lamp applications. We are the leading manufacturer of specialty lamps, based on quartz glass technology in South and East Asia. A perfect solution for UV disinfection systems for STP, ETP, Waste, and Drinking water applications, IMTB Arklite provides Closed and Open Channel solutions for the disinfection of water without usage of any harm Full Chemical Dosing**



## ADVANTAGES OF UV TECHNOLOGY OVER CHEMICAL DOSING

- **Effective at inactivating most viruses**
- **Eliminates the need to generate, handle, transport, or store toxic/hazardous or corrosive chemicals.**
- **No residual effect**
- **user-friendly for operators.**
- **Shorter contact time**
- **Less space**



Waste Water Treatment



Breweries



Drinking Water



Dairies



Food & Beverage



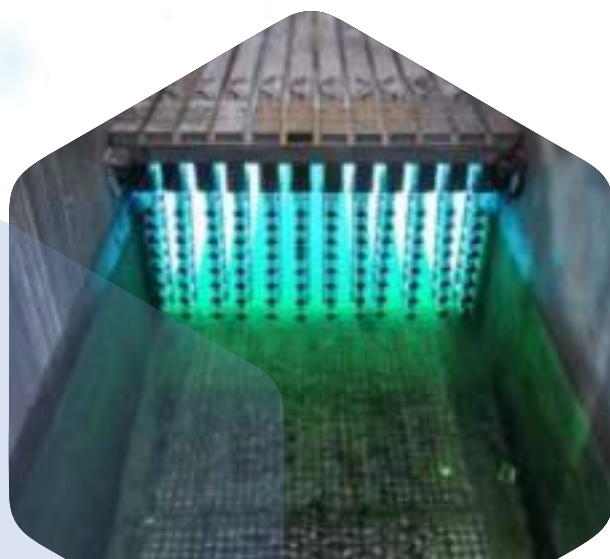
Poultry & Fish Farming



Pharmaceuticals & Cosmetics.



Spa & Swimming Pools





# SUSPENDED PARTICULATE MATTER: MAKE-IMTB & LKS

## Light Back scattering Technical Principle

Series of LKS dust monitors consists of optical section, circuit and control section, calibrator, and purge system. The laser beam (650 nm) comes across the detection area and produces scattered light after effect with dust particles. The back-scattered light crosses the lens converges into photosensitive detector. Analyzer circuit and control section converts light signal into signal output, which is proportional to the dust concentration, and obtains dust particles emission concentration of pollution



## Opacity Light Pass Type

- Innovative Dynamic Detection Principle (DDP) measurement technique
- Immune to gradual reductions in absolute intensity of the light signal so less susceptible to drift
- Measurement reading as  $\text{mg/m}^3$  (when calibrated against standard reference measurements)
- Internal electronic calibration check capability
- Choice of interface options enabling easy integration
- Optional Operator Interface with different mounting configurations
- ease of access for installation and maintenance

## Dust & Opacity Analyzer (Single Pass) D10.3

### Features

- Combination of transmittance and scattered light measurement
- For very low to high dust concentrations
- Automatic check of zero and reference point
- Contamination monitoring and compensation on both sides
- Automatic self-alignment
- For medium to large dust diameter

### Benefits

- Suitable for highly fluctuating dust concentrations
- Reliable application due to redundant measurement
- Low maintenance due to self-monitoring function
- Future-proof for decreasing limit values



# HORIBA CEMS

## Continuous Emission Monitoring System

**EXCLUSIVE PARTNER**

CEMS & OTHERS  
HORIBA

### **ENDA-5000 series**

NO <sub>x</sub> , SO <sub>2</sub> , CO <sub>2</sub> , CO, O <sub>2</sub>	CO: 0-200 TO 5000PPM
NO <sub>x</sub> : 0-200 TO 5000PPM	O <sub>2</sub> : 0-10 TO 25VOL%
SO <sub>2</sub> : 0-200 TO 5000PPM	CO <sub>2</sub> : 0-5 TO 25VOL%

- Cross Flow Modulation type NDIR stabilizes operation with no optical adjustment and zero drift to give longer life time.
- Integrated analyzer with promised performance sampling unit established from more than 50 years experience in this field.
- Special magneto-pneumatic O<sub>2</sub> detector providing non carrier gas and non direct contact with sample gas provides less running cost and longer life time.

**CE, TÜV, US EPA, FCC, KC, JAPAN etc**



**BRAHMASTRA** for Energy  
Auditors, Compliance Auditing  
CPCB's and SPCB's etc .



### **PG-300 Series**

**NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, CH<sub>4</sub>**

NO<sub>x</sub>: 0-25/50/100/250/500/1000/2500ppm  
SO<sub>2</sub>: 0-200/500/1000ppm  
CO: 0-200/500/1000/2000/5000ppm  
CO<sub>2</sub>: 0-5/10/20vol%  
O<sub>2</sub>: 0-5/10/25vol% (Zirconia or Galvanic),  
0-10/25 vol% (Paramagnetic)  
CH<sub>4</sub>: 0-2000/5000ppm or 0-50/100%

- Capable of up to 5 component measurement simultaneously with built-in sampling unit.
- Max 5 days continuous measurement is available and necessary data and trend graph can be stored in an integrated data logging function.
- User-friendly functions such as an integrated instruction manual can be accessed from the LCD display

**CE, TÜV, FCC, MCERTS, GOST, CPA, KC, JAPAN etc**



# HORIBA AQMS

## Air Quality Monitoring

*Air Pollution Analyzer*

### **AP-370 series**

**NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>3</sub>, H<sub>2</sub>S, NH<sub>3</sub>,  
THC, NMTHC, CH<sub>4</sub>, NMVOC**



**NO<sub>x</sub>: 0-0.1/0.2/0.5/1.0 ppm**

**SO<sub>2</sub>: 0-0.05/0.1/0.2/0.5 ppm**

**CO: 0-5/10/20/50 ppm**

**CO<sub>2</sub>: 0-500/1000 ppm**

**O<sub>3</sub>: 0-0.1/0.2/0.5/1.0 ppm**

**H<sub>2</sub>S: 0-0.05/0.1/0.2/0.5 ppm**

**NH<sub>3</sub>: 0-0.1/0.2/0.5/1.0 ppm**

**THC, NMTHC, CH<sub>4</sub>: 0-5/10/20/50 ppmC**

**NMVOC: 0-2000ppm**

- Long term stable drift by Cross Flow Modulation technology.
- Automatic calibration function enables setting of start time and the interval to reduce operation.
- Multi-range function automatically switches the range to the best suited, depending on measured gas concentration.

CE, TÜV, FCC, MCERTs, GOST, KC, JAPAN etc

*Beta-Ray Attenuation type Dust Analyzer*

### **APDA-371**

**PM2.5, PM10, TSP | Standard: 0-1000g/m**

- Long term unattended remote operation of up to 60 days between site visits.
- Hourly filter advances minimize effects of volatile compounds.
- Integrated data logger allows the connection of up to six additional meteorological sensors.

CE, TÜV, US EPA etc



*Continuous Particulate Monitor with X-ray Fluorescence*

### **PX-375**

**Particulate Matter (PM10/PM2.5/TSP)**

**Particulate mass concentration and element concentration**

**0-200/500/1000 µg/m<sup>3</sup>**

- Continuous hourly analysis of PM mass and the elemental concentration by a single unit directly in the field.
- Adoption of world proven technologies: X-ray fluorescence & Beta-ray attenuation, advanced analysis for prevention of air pollution.
- Remote Operation via internet connection enables user to check status and acquire data without going on site.



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# SOLUTION FOR CONDITIONING MONITORING

## MONITOR VARIETY OF ASSETS AND SPECIFIC FAULTS LIBRARY



### Equipment Faults diagnostics Library

- CIMCON DIGITAL - REALTIME 24 Hrs.:- PREDICTIVE & PRESCRIPTIVE MAINTENANCE Solution.
- FOCUS on Reducing Downtime, MTBF, Reduction in the Human Interface Touch .
- Using Smart Diagnostic on premises "Vibit" to capture Tri-axial Vibration Data , Temperature, Noise & RPM.
- Misalignment
- Excessive Load
- Rue or False Brinelling
- Overheating
- Reverse loading
- Normal fatigue failure
- Loose or tight fits
- Gear box friction
- Gear box impacting
- Fan blade rubbing
- Shaft and casing misalignment
- Shaft and fan blade imbalance
- Particulate build-up or erosion of blades
- Rotor/Stator eccentricity
- Structural issues
- Electrical issues
- Defective belts
- Very high vibrations
- Loose connections
- Cavitation
- Resonance
- Vane pass frequency
- Blade pass frequency



EXCLUSIVE PARTNER



### NON-INVASIVE ULTRASONIC FLOW MEASUREMENT

**FLEXIM is the leader in the field of non-invasive ultrasonic flow measurement with respect to various Industries & Applications. FLEXIM products sets standards when measurement matters. We proudly serve our non-invasive solutions for Flow density and concentration measurement to various customers for their safe & hazardous area (Zone-1 & Zone-2) applications of Liquids, Gases and Steam.**

- No need of pipe cutting and other pipe work
- No pressure loss
- No fear of leakages
- Drift free and Maintenance free performance
- No requirement of special high pressure rated flanges/mounting accessories
- No requirement of Hydrotest, Radiography, NACE test and any other special pressure/material related test.
- No process shut down required during installation
- Easy, Safe and Fast Installation



# ELECTRIC PANELS & AUTOMATION

VCB Panels / MCC Panels/ PCC Panels/Automation/VFD-Inverter Panels / PLC  
HT Panel

Voltage	11kV & 33kV
Frequency	50Hz
STR	18.4kA to 40kA
Current Rating	630A-2000A
Bus Bar	Al. / Cu.
VCB	Schneider Make VCB & VCB Kit
Relay	Schneider
Meters	Schneider
Protection	Indoor/Outdoor
Type	Draw out/Fix Type VCB
NO Contacts	6 NO + 6 NC
PT	FIX / Draw out



## LT Panel

Voltage	415V
Frequency	50Hz
STR	upto 100kA
Current Rating	upto 6300A
Bus Bar	Al. / Cu.
Breaker	ACB/MCCB/MCB
Relay	Schneider
Meters	Schneider
Protection	Indoor/Outdoor
Type	Drawout/Fix Type
Construction	Single / Double Front
Type	Main LT/PCC/MCC/Stator/DBs/Capacitor



## Online Data Acquisition System



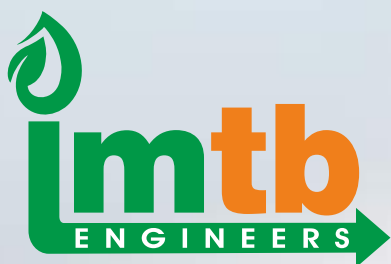


## OUR VALUABLE CLIENTS



## BRANCHES

**CHANDIGARH / LUCKNOW / MUMBAI / INDORE / GUJARAT**



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