

## **AMBIENT AIR QUALITY MONITORING STATIONS [AAQMS]**

**Environment Monitoring and Management is critical.  
Ambient Air Pollution should never be the price of Development.**



**Ambient Air Quality Monitoring Stations  
Reliable Monitoring for a sustainable living**

One of the great threats facing human life today is the constant exposure to **Air Pollution**, a price that we needn't pay for our quest for industrialization. Unfortunately, the environmental protection efforts continue to lag behind economic growth, and pollution has become even more rampant.

The Central Pollution Control Boards (CPCB) under the MoEF have an arduous task to ensure clean and pollution-free ambience and realized early that tackling pollution effectively needs laws, not just voluntary agreements. Hence the Gazette document, which states the acceptable limits. The risk of health effects of air pollution, can imperil human lives, if it goes unchecked.

Fortunately, there are methods and technologies today that are available and which monitor various ambient air pollutant components, which can ensure clean and uncontaminated ambient air in industrial parks, plants, heavy emission-choked industries and vehicle-flooded cities. With over a decade of proven installations that Measure, Monitor and Control, **Chemtrols** offer turnkey solutions in the field of **Environment Monitoring & Process Analysis**.

### **Key Features & Benefits**

- ④ *Leading solutions provider for Environmental Monitoring & Process Analysis, specializing in design, engineering, supply, maintenance and operation of Integrated Systems for Process, Environment and Emission monitoring.*
- ④ *Engineering ingenuity and impeccable services, with reputed clientele like NTPC, IOCL, Tata Steel, JSPL, LANCO, Ultratech Cements, ACC just to name a few amongst an installed base of over 300 systems.*
- ④ *Single point responsibility to provide reliable, high quality air pollution and metrological data, designed to suit the ever-changing ambient conditions with due consideration for minimizing maintenance and maximizing uptime.*
- ④ *Sensitive & Reliable US EPA approved analyzers to give precise, reliable and repetitive measurements, with every instrument and associated components in the system, meeting rigorous quality and performance standards.*
- ④ *Turnkey Solutions for integration of Data from one or multiple plant locations, to a central station through various communication systems; wired communication like LAN, Telephone, or through wireless communication using RF, GSM, GPRS. Transferring the data to large Outdoor Displays, local displays or to regulatory authorities like State & Central pollution control boards.*

## Ambient Air Quality Monitoring Stations [AAQMS]

**Chemtrols** with over 3 decades of expertise in Environment & Emission Monitoring, provides systems & solutions that help industries measure and reduce the impact of flue emissions on the environment. We offer proven technology which are as per guidelines provided by MOEF / CPCB & SPCBs and our Analyzers have International approvals from agencies such as USEPA, TÜV etc.

Ambient Air Quality Monitoring Systems measures the level of pollutants. From a single analyzer to complete turnkey systems (Both Mobile and Fixed) with shelters, and data transfer to the pollution boards, Chemtrols provides a wide range of solutions to meet much of the Ambient Air Quality Monitoring demands.



**Chemtrols** designs and manufactures system for continuous monitoring of Ambient Air Quality for use either as a

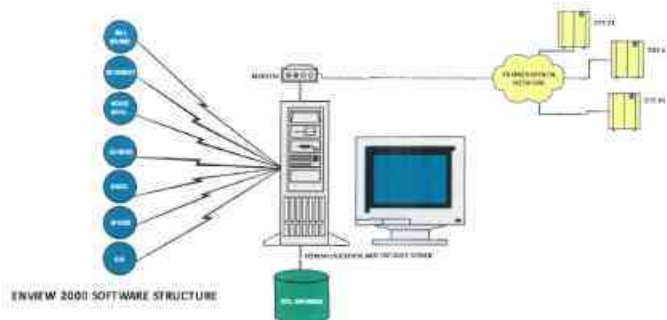
- Fixed Rack mounted Stations in Conditioned Shelters, or as stand alone racks.
- Mobile Vans

### System Highlights

- Analyzers designated according to U.S.E.P.A reference or equivalent methods
- Conventional Analyzers – SO<sub>2</sub>, H<sub>2</sub>S, NO<sub>x</sub>, NH<sub>3</sub>, CO, CO<sub>2</sub>, O<sub>3</sub>, Hg, HC, BTX Analyzers – (Benzene, Toluene, and Xylene)
- Particulate Monitoring -TSP, PM10, PM2.5
- Meteorological Sensors
- On-line Calibration Systems
- Data Acquisition and Management Systems.
- Ethernet connectivity for efficient remote access User-friendly interface with single button programming and large display screen
- Well thought out of layout design for easy accessibility to components Report generation on an hourly/ daily/weekly/ monthly/ yearly basis.

### Data Collection and Transfer.

- Designed for unattended operations.
- Data management, Monitoring and Acquisition in a dedicated Data Acquisition System (DAS)
- Data collected by the DAS from various analyzers and meteorological sensors through an RS232 multi-drop serial link/ Ethernet
- Data loggers with internal storage capacity.
- Data from one or multiple locations can be transferred to a central station through various communication systems; wired communication mode like LAN, Telephone or through wireless communication using RF, GSM, GPRS.
- The Central Station Software is capable of transferring the data for display or to regulatory authorities, like pollution control boards through internet or intranet using TCP/IP protocol.



## Ambient Air Quality Monitoring Stations [AAQMS]



### Ambient Air Monitoring Stations

- Rack mounted engineered solutions
- Large Displays for distance viewing
- Rack and Shelter based Solutions
- Modular Design

### Metrological Sensors

- Corrosion resistant probes for the use in aggressive environment
- Accurate Sensors
- Long Life



### Gas Analysers

- Multiple gases like SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, O<sub>3</sub>, Hg etc.
- State of art features and USEPA approved
- Advanced color display, touch screen
- Ease of Maintenance
- Low drift level

### SPM Monitors PM10 & PM2.5

- Analyzers approved by USEPA
- Automatic Span check
- Dedicated Analysers for PM10 & PM2.5



### Data Acquisition and Handling System (DAHS) for data storage and online transfer/connectivity to SPCB's / CPCB

- Data logging & Trending
- Report generation as per SPCB's / CPCB formats
- Hourly, Daily, weekly, Monthly, Yearly reports
- Trends & bar graphs

### Services

- Design, Engineering and Commissioning Support
- Operational and Calibration services
- Annual Maintenance Contracts
- On call service
- Training to Plant Personnel on CEMS/ AAQMS



**Chemtrols** is a reckoned supplier of totally integrated systems & solutions in the field of Process Control Instrumentation, for Measurement devices, such as Dust Measurement, Oxygen Measurements, Flow Meters, Metal Tube Rotameters, Natural Gas Regulators, Displacer Level Transmitters, Gauges, Flow Metering Skids, both for Gases & Liquids & Terminal Automation etc., with in-house competence & expertise earned through decades of experience. We have today a sizeable base of successfully designed, engineered, installed, and commissioned Oxygen Monitoring Systems all over the country.

### **Trustworthy Support and Services**

Chemtrols is committed to meet or exceed customers' expectations by providing quality products and services. Service support is a vital aspect of Chemtrols' Philosophy. We continue to keep our focus on rendering prompt and efficient after sales services, for all products and solutions, and also offer training on products, operations and services.

We further engage in rendering end-to-end Annual Comprehensive Maintenance Contracts, Sales & Services of all items to our clients on contractual basis. We are backed by a team of experienced Process and Instrumentation trained professionals, who have profound expertise in this domain.



**System  
Integration**



**24 x 7 Support**



**AMC & CAMC**



**Training**

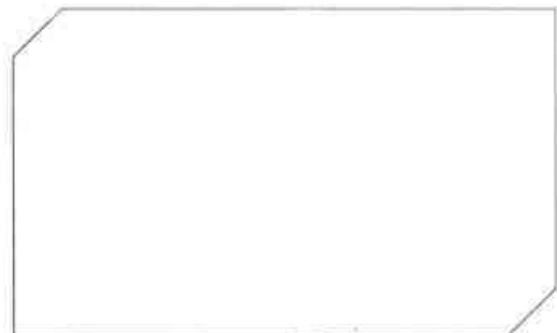
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