



**Case Study:**  
**Implementation of EnviroConnect**  
**For Forbes Marshall Pvt. Ltd.**

**Note: PlantConnect-AQMS has since been renamed as EnviroConnect**

## 1. Background

Forbes Marshall Codel is a leading manufacturer, of various pollution measuring sensors and devices. It has large no. of installations across India in various types of industries like cement power textile mills etc. As per Central Pollution Control Board (CPCB) guidelines Forbes Marshall Codel is required to set up a dedicated server in CPCB premises and later in each of the SPCB premises where the data from various installations will be made available. AIPL's solution, **EnviroConnect** offers an ideal platform for Forbes Marshall Codel to meet above requirements.

FM has installed a server at Central Pollution Control Board (CPCB) office at New Delhi. FM has selected EnviroConnect software for all their requirements like collecting real time data of all industries and display at the server, public portal so general public can view the data, reports, alarms etc.

## 2. Project Objectives

1. To install and operate a central portal under control of CPCB which will be the aggregator for pollution data from all installations
2. To upload data in real time from all installations.
3. To store and archive all such data for analysis and reporting
4. To generate relevant alarms/ alerts and warnings based on real time data
5. To provide additional functionality for authorized users for data management and analysis as well as for generating reports
6. Report generation and distribution as per configuration
7. Availability of real time data and other information to citizens through a public portal

## 3. Solution

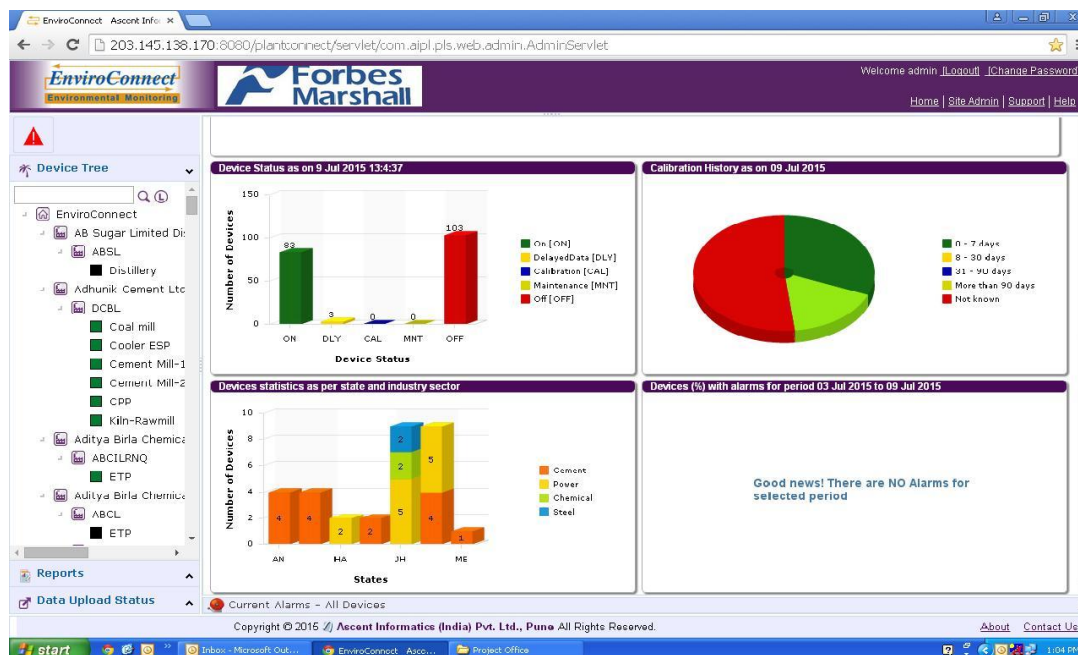
EnviroConnect is a ready to deploy solution with full and advanced functionality, dash board based viewing, evolved alarms and alerts management and powerful reporting. The solution is proven in the field and is currently deployed in various industries. The solution is designed based on global standards of ambient monitoring requirements of various pollution boards and further tuned to the requirements as laid down by CPCB for Indian standards.

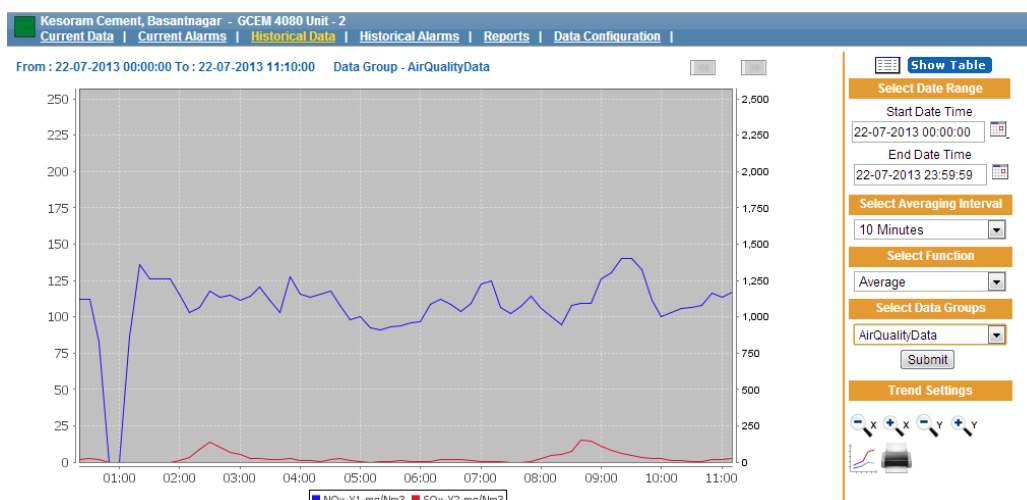
## 4. Selection of System by Forbes Marshall Code

Based on the project objectives and technical requirements put up by Central Pollution Control Board (CPCB) office, Forbes Marshall Pvt. Ltd. evaluated and selected EnviroConnect as the most appropriate solution for the project. Main reasons for this selection were:

- EnviroConnect was a ready solution with all required functionality
- EnviroConnect has strong analytical and reporting features as required by CPCB
- EnviroConnect has strong server component to handle large data load

## 5. Solution sample screen shots and sample report





## 6. Technical details of project and installation

Hardware installed and connected:

- Insitu Multi Gas Analyser - FM CODEL GCEM4000
  - Analyzers capable of measuring gases as follows
    - CO
    - CO2
    - NO
    - NO2
    - SO2
    - HCL
    - H2O
- Opacity / Dust Monitor - FM CODEL DCEM2100
  - Measures opacity and dust
- Airpointer
  - Measures ambient gases

Device drivers implemented in the project

|    | Equipment                                      | Driver                                       |
|----|--|--|
| 1. | Insitu Multi Gas Analyser - FM CODEL GCEM4000  | Serial communication using ModbusRTU driver  |
| 2. | Met Opacity / Dust Monitor - FM CODEL DCEM2100 | Serial communication using Modbus RTU driver |

|    |            |                          |
|----|------------|--------------------------|
| 3. | Airpointer | File based communication |
|----|------------|--------------------------|

## 7. Current status of the project

AIPL has successfully completed 300 plus installations. The system is in operation successfully. We are in the process of rolling out huge number of installation in next two years. FM officials are happy with system performance and features as well as support. We have also demonstrated this system at CPCB recently and all the officials were satisfied with the performance. They confirmed that PlantConnect is meeting the system requirements laid down by them.

The system can be accessed at: <http://203.145.138.170:8080/plantconnect/aqms>

### About Ascent Intellimation

[www.enviroconnect.in](http://www.enviroconnect.in)

[www.plantconnect.net](http://www.plantconnect.net)

Ascent Intellimation Pvt. Ltd. (AIPL) specializes in IT solutions for Industrial Automation. PlantConnect® is the web-based monitoring platform of AIPL. We provide several PlantConnect® based solutions for Remote Asset Management, Manufacturing Intelligence, and Real-time Reporting etc.

Ascent Intellimation has been working in the domain of environment quality monitoring since 2005 and has implemented multiple projects in India and abroad. AIPL has leveraged this experience to build EQMS solution. AIPL has implemented EQMS solution at Central Pollution Control Board of India for many analyzer manufacturing and implementation companies. This includes 5 year support and operations contract also. In addition to this AIPL offers same solution on SaaS/ ASP model for smaller companies.

AIPL is process driven company with ISO certification for quality. Please contact us for further details and queries:

#### **Ascent Intellimation Pvt. Ltd.**

Dnyanmayi, 1 Shreeniketan Society, Off Karve Road, Kothrud, Pune - 411038

Tel.: +91 20 6500 4608

E-mail: [sales@aiplindia.com](mailto:sales@aiplindia.com)