

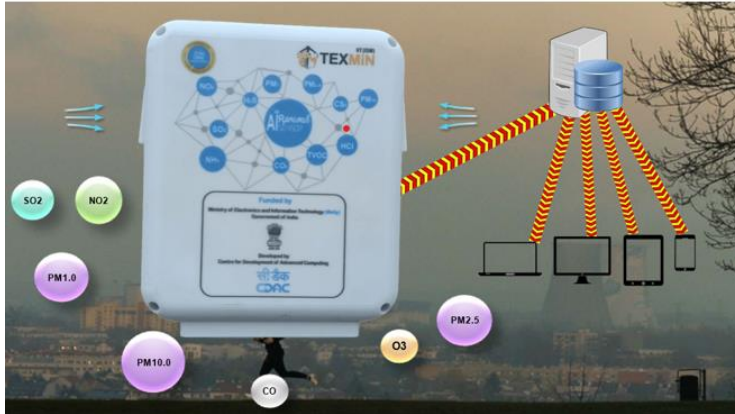


Ai Based Air Quality Monitoring System (AQ-AIMS)



Objective

- ❑ An Outdoor Air Quality Monitoring Station to monitor environmental pollutants PM1, PM2.5, PM 10, SO2, NO2, CO, O3, ambient temperature, and relative humidity.
- ❑ An AI based decision making algorithm to predict the Air Quality Index as per CPCB Standards.

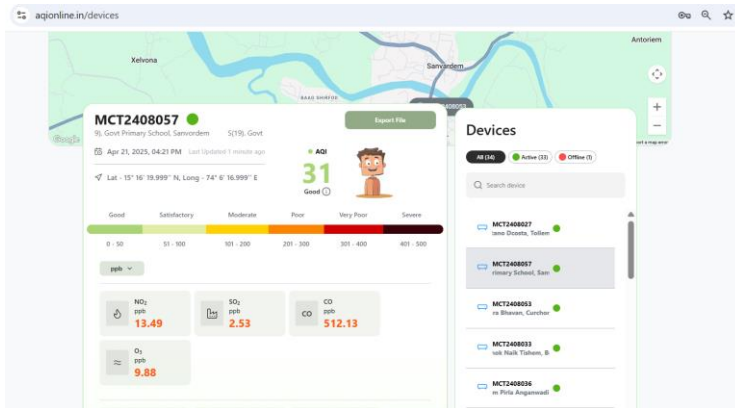


System Architecture

Unique Features:

- Monitors particle concentration of ambient air in PM1, PM2.5, PM5, PM10
- Pre-calibrated gas sensor modules for different gases including O3, SO2, CO, NO2
- Integrated web server for visualization, configuration, data logging and remote maintenance
- Compact size for deployment, installation, and operation in minimal time
- Enabled with GSM communication for seamless data transmission
- Water Resistant Enclosure for outdoor deployment

Data Visualization:



Prospective End Users:

- Cement Industries
- Mine Industries
- Thermal Power Plants
- Other Government Agencies
- Educational Institutions etc

Transfer of Technology



Industry Partner: J.M. EnviroLab Pvt Ltd



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