

# Empowering Hospital Administrators with Real-time Ambient Air quality monitoring system

## *Our Client*

Jay Prabha Medanta (JPM) Super Specialty Hospital is a multi-speciality medical institute based in Patna, India. It offers some of the best facilities for providing healthcare in the country with its state-of-the-art infrastructure and cutting edge technology. They have an impressive capacity of up to 500 beds, 112 critical care beds, and 12 super specialities that serve patients across the world. Around more than 20,000 patients across the world are treated every year in this Multi-speciality hospital.



## *The Challenge*

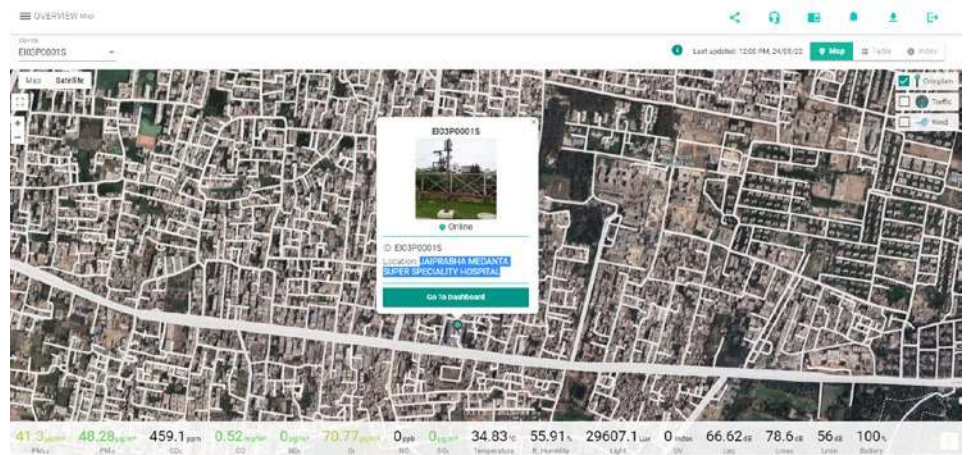
The Multi-speciality hospital is situated in one of the busiest areas of the city of Patna. The air quality of the city can at times deteriorate depending on the season, vehicular pollution and other reasons. With many of the Hospital's patients falling under critical health conditions, it was important to take all the precautionary measures in case such pollution levels exceed safety levels. To provide a healthy & pollution free environment for their patients, they required an Air Quality Monitoring system that can detect  $PM_{2.5}$ ,  $PM_{10}$ ,  $SO_2$ ,  $CO$ , weather conditions, and other various gaseous levels.

## The Solution

Oizom with Envirotech offered the JPM hospital to install Polludrone Smart to monitor the air quality on a real-time basis. Polludrone is capable of reading  $PM_{2.5}$ ,  $PM_{10}$ ,  $SO_2$ ,  $NO$ ,  $NO_2$ ,  $O_3$ ,  $CO_2$ ,  $CO$ , and other various gases on a real-time basis. Since the patients can also be sensitive to other environmental conditions like temperature, UV light, and even noise are important to monitor. Polludrone can effectively monitor such parameters as well and ensure the optimum health provisions for their patients. With the help of its Data Analytics and Visualisation Software, it can showcase the data with timestamps and display it on the JPM's LED Displays

## Installation Details

Polludrone Smart has been installed in the Jay Prabha Medanta Super Specialty Hospital in Patna, Bihar, India.



## The Result

The JPM Hospital is now able to monitor the air quality on a real-time basis. Oizom's smart, robust and accurate Air Quality Monitoring system has assisted the hospital in assuring their patients of clean air. Oizom's Data Analysing & Visualisation Software has further made it convenient for the authorities to understand the various parameter levels in the environment and make appropriate decisions that best serve their patients' health.

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“Oizom's Air Quality Monitoring Device is running smoothly. There have been no cases of malfunction. Its Robust body has kept it durable throughout the time.” - Virendra ji, Hardware Engineer, Envirotech.

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Oizom is an environmental IoT company offering data-driven environmental solutions for better decision making. With our sensor-based hardware, we monitor various environmental parameters like air quality, noise, odour, radiation, weather conditions, etc. Our data analytics platform derives many actionable insights for authorities, communities, and industries. Oizom strives to play an essential role in a sustainable future through smart environmental solutions and data science.