

Monitoring Air Quality in Alkem Laboratories to Maintain the Quality and Safety of Products

Our Client

Alkem Laboratories, a pioneer in India's pharmaceutical sector, has been setting benchmarks for over 50 years. With a presence in 40 countries, 19 manufacturing units, and more than 800 brands, Alkem is renowned for its dedication to innovation and quality. As a leading player in the generic and specialty pharmaceutical space, the company continuously strives to ensure that its products meet the highest safety and efficacy standards. Part of this commitment involves maintaining strict control over the environmental conditions within their manufacturing facilities.



The Challenge

One of the major challenges Alkem faced was managing air quality within its manufacturing environment. The production of pharmaceuticals requires strict control of air quality, so the company was looking for a reliable air quality monitor to ensure that air quality was maintained. They also wanted to prevent contamination of their products that could affect the quality and safety of their products by detecting particulates (PM_{1} , $PM_{2.5}$, PM_{10} , PM_{100}) as well as hazardous gases like CO , CO_2 , SO_2 , NO_2 , and O_3 . Alkem needed a scalable, cost-effective air quality monitoring solution to ensure a contaminant-free environment, meet regulatory standards, and safeguard employee health, all while integrating seamlessly into their existing systems to maintain smooth manufacturing processes.

The Solution

To address and solve the issues, we offered them our Polludrone system to install at the periphery of the manufacturing setup. The device monitors a comprehensive set of environmental parameters essential for maintaining regulatory compliance and optimal manufacturing conditions. The system monitors particulate matter (PM₁, PM_{2.5}, PM₁₀, PM₁₀₀) and various gases (CO, CO₂, SO₂, NO₂, O₃), along with environmental factors such as temperature, humidity, pressure, and noise. Polludrone is an ideal device for simultaneously monitoring multiple pollutants and delivering real-time data. It integrates seamlessly with existing industrial systems, ensuring uninterrupted manufacturing operations while maintaining regulatory compliance and protecting employee health and safety.



The Result

Installing Polludrone in the periphery of the manufacturing setup helps Alkem ensure product quality and regulatory compliance. The real-time data on particulate matter and harmful gases has enabled the company to maintain strict control over air quality, effectively reducing the risk of contamination in pharmaceutical production. This has been crucial in safeguarding product integrity and maintaining high production standards.

Additionally, the system's ability to monitor environmental conditions ensures that Alkem meets regulatory requirements, avoiding potential penalties while providing a safer working environment for its employees. The integration of Envizom has further enhanced operational efficiency by allowing for proactive maintenance. With real-time alerts and remote monitoring, the company can identify potential issues early, preventing costly production delays or equipment malfunctions due to poor environmental conditions.

Oizom is a company specializing in environmental monitoring solutions. They offer products to monitor air quality, weather conditions, and other environmental factors. Utilizing advanced sensor technology and data analytics, Oizom aims to provide actionable insights for construction, industrial compliance, and community awareness. Their solutions can be applied in various sectors including government, industries, and community initiatives.