

Monitoring Air Quality for the Arunachal Pradesh State Pollution Control Board

Our Client

The Arunachal Pradesh State Pollution Control Board (APSPCB) is a governmental body of the Indian State, Arunachal Pradesh, established in the year 1993. Its main function is to oversee the programmes for prevention, control and abatement of air pollution in the state. It also acts as an advisory body to the State Government on any matter concerning the prevention of pollution levels. Arunachal Pradesh is home to 1.7 million people (Projected population of 2021) and various flora and fauna. It hosts a number of industries which are subjugated to scrutiny by the Arunachal Pradesh State Pollution Control Board.



Arunachal Pradesh State Pollution
Control Board

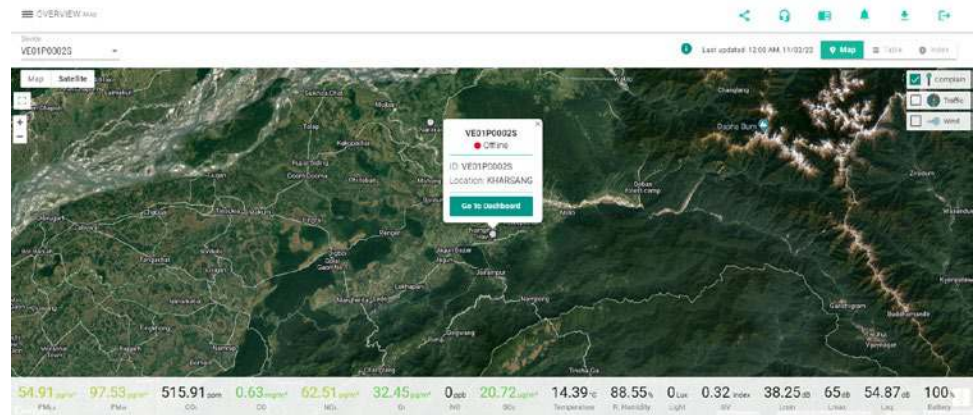


The Challenge

The APSPCB wanted to keep track of the air quality in two places, Namsai and Kharsang. They also wanted to display the acquired data on an LED display for the public to view. However, they did not have an Air Quality Monitoring system that could detect the various Ambient Air pollutants and be capable of sending data to a third party displaying device. The APSPCB needed a compact, robust and accurate Air Quality Monitoring system that could detect the parameter levels of $PM_{2.5}$, PM_{10} , SO_2 , NO , NO_2 , O_3 , CO , CO_2 , noise, UV, light, temperature, humidity and the air pressure in these two areas. Additionally, it was important that such a system was independent in its energy requirements and a data back option, in case a network shut-down occurs.

The Solution

Oizom with Volta Engineering Solutions offered Polludrone Smart to the APSPCB for real-time monitoring of the various parameters of Air pollution as mentioned previously. Polludrone comes equipped with a robust body composition capable of enduring harsh weather conditions. It can also run independently on Solar power. Oizom's Patented 'e-breathing' technology enables the sensors for gathering accurate data on the various parameter levels. The data collected by the monitor can be transferred via GSM and other various modes to the APSPCB. Furthermore, Polludrone comes equipped with the Data-Analysing software that makes it easier for the authorities to get historical data on the various levels of air pollutants and can investigate accordingly for the causes.



The Result

The APSPCB is now capable of monitoring the various parameter levels of air pollution on a real-time basis. The Data Analytics and Visualisation software have made it easier for them to understand the historical trends of the various emissions. The data accumulated by Polludrone is currently being projected in the LED display to assure the citizens of safe breathing air. Additionally, the authorities are now empowered to adopt appropriate measures that best suit the needs of the citizens and the environment.

Installation Details

Polludrone Smart was installed in the District of Namsai, Arunachal Pradesh
Polludrone Smart was installed in the District of Kharsang, Arunachal Pradesh



“We are pleased with Oizom's support and service provided. Oizom has made a mark in the state with its break-through technology of low-cost sensors, while at the same time maintaining its accuracy in reading the various parameter levels.” - Mr. Pankaj, Owner, Volta Engineering Solutions.

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.