

Client



ESS Enviro

Location

Kanjur Marg, Maharashtra (India)

Application

Odour Monitoring in Dumpyard

Problem

Kanjurmarg dumping yard processes 80% of Mumbai city's waste, with around 3000 tonnes of solid waste collected daily. Not only the stench from the landfill is painstakingly foul and difficult to bear, but it has also started creating health problems to the residents. People residing near Vikhroli and Bhandup have been reported to suffer nausea and vomiting due to the smell.

Recently, the government has started paying attention to this problem and had started pressurizing the Municipal Corporation to continuously monitor the air quality in the vicinity and follow the pollution standards. Thus, Brihanmumbai Municipal Corporation (BMC) needed to install Continuous Air Quality Monitoring Station in the periphery of the dumping site.

Oizom Solution

After a detailed site survey, Oizom proposed to install Polludrone and Odosense units - an Air Quality Solution combined with Odour Monitoring to monitor both the particulate matter and odorful emissions from the dumpyard.

Oizom installed Polludrone Smart at the dump yard to measure PM2.5, PM10, Temperature and Humidity. Oizom Odosense is the most advanced e-nose developed to monitor CO, NO2, NH3, H2S, SO2, VOC, CH2O, and CH4. These units were installed strategically such that the whole dumpyard is covered for monitoring.

Oizom Terminal was set up for the admins to view and analyze the data. This cloud-based application helps visualize AQI data hourly/monthly in a comprehensible manner. The admins can define intervals for the automatic report generation and get real-time alerts.



Impact

Peripheral monitoring within 5-kilometer range of Kanjurmarg dumpyard site helped the officials to identify the exact sources of odour emissions. Data accumulated from Oizom devices has enabled them to take data-driven actions to control and mitigate the issue of odours by taking steps like spraying odor neutralizers, activating bioreactors and odor suppressants.

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