

Detecting Hydrogen Chloride Fumes in Godrej Manufacturing Unit

Our Client

Godrej & Boyce Mfg. Co. Ltd. is the flagship company of the Godrej Group. It was established in the year 1897 in Mumbai, India. They have a significant presence across Europe, the U.S., the Middle East, Africa and South-East Asia, and are worth over US\$1.5 Billion (2019-2020) in revenue. They are revered for their premium quality in manufacturing wardrobes, locks, and other security solutions. They have a well-established manufacturing unit for wardrobes and lockers in the outskirts of Mumbai, which also happens to be the prime business vertical of Godrej.



GODREJ & BOYCE



The Challenge

Godrej & Boyce Mfg. Co. uses Mild Steel (MS) products in manufacturing their wardrobes and lockers. The manufacturing unit in Mumbai is surrounded by multiple industries, one of which is a chemical industry adjacent to it. It was found the MS sheets used for making Godrej products were facing damage because of the toxic fumes emitting from the adjacent Chemical industries. One of such toxic fumes was Hydrogen Chloride (HCl) which causes the corrosion of the MS sheets. It was a challenge to detect or figure out the exact time of the HCl emission so that appropriate measures can be adopted to secure Godrej's products.

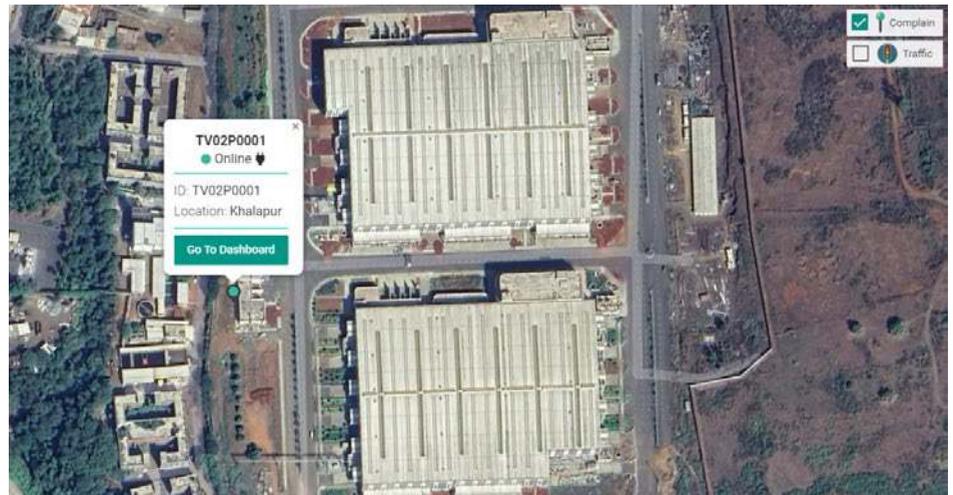
Installation Details

1 unit of Polludrone was installed in the Godrej & Boyce's Wardrobe and Locker Manufacturing Unit, Mumbai.



The Solution

Oizom with TechnoValue Solutions Pvt. Ltd. offered Polludrone as a solution for detecting the HCl and other industrial emissions that might cause damage to Godrej's products. Polludrone is capable of a real-time monitoring reading of HCl and other air pollutants. Data collected from Polludrone can be Integrated through Oizom's cloud computing APIs to Godrej & Boyce's platform for an accurate reading, analysing of data statistics, and further understanding the origins of the HCl emissions via historical trends. Polludrone also comes inbuilt with a notifying mechanism where it can warn the authorities of an increase in the HCl emission levels.



The Result

The authorities of the manufacturing unit have detected and established origins, patterns and timings as to when such HCl fumes are emitted. The SMS and email notifying mechanism have helped the authorities to be notified on a real-time basis if and when there is an influx in the HCl emissions. This has empowered Godrej & Boyce's manufacturing unit to adopt appropriate measures to safeguard their products. The MS sheets' quality is now maintained in its pristine conditions without the impending threat of corrosion due to the HCl fumes.

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“Happy with the facilities provided by Oizom like SMS and automatic report mailing. Polludrone is user friendly and has helped monitor the air quality effectively.”

*Ajinkya Jiwane
Head of Sales -
TechnoValue Solutions
Pvt Ltd*

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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.