

# Monitoring chlorine gas at a common effluent treatment plant in Jetpur

## *Our Client*

Jetpur Dyeing and Printing Association has set up a CETP (Common Effluent Treatment Plant) in order to meet the requirement of nearby areas' small industries. The Textile printing units located in the Jetpur area are doing washing activities of printed sarees, dress materials, and other cotton fabrics through washing ghat located in the surrounding area. These all washing ghat are scattered and creating Environmental Issues. The CETP accounts for 30 MLD of polluted water.



## *The Challenge*

One of the key issues for the coloured effluent discharge before treatment is decolourization. The CETP design is meant to decolourize the treated effluent. This is done by dosing chlorine gas into the outlet. Currently, the operators had no control of the dosing and this process was done without any data supervision. Therefore, it often resulted in overdosage leading to chlorine gas exposure in the surrounding. This not only affected the treatment process but also created an unhealthy environment for the CETP operators due to the chlorine odour. The need for CETP chlorine gas monitoring was evident and a real-time solution was requested.

### Installation Details

1 AQBot Cl<sub>2</sub> installed at the CETP

### The Solution

Oizom with Nature's Enviro Care offered AQBot Cl<sub>2</sub> for installation at the CETP. The industrial grade single parameter monitor can detect real-time chlorine gas. AQBot also comes inbuilt with a notifying mechanism where it can warn the authorities of an increase in the Cl<sub>2</sub> levels. Its robust built and compact design allows easy installation in the industries. Also, the display on the AQBot Cl<sub>2</sub> helped the operators to check the data on the go when they are on the field. The report module in the Envizom software helped the CETP manager to validate the efforts.



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*"AQBot's performance has been satisfactory. To date, there has been no need for any maintenance"*

*- Hardik Asodariya,  
Nature's Enviro Care*

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### The Result

Oizom's industrial grade single parameter air quality monitor, AQBot helped notify the parameters levels of Cl<sub>2</sub> to the authorities of the Jetpur CETP. This allowed the operators to control the chlorine dosage and ensure optimized treatment. Additionally, the odour was reduced and operators could breathe in a safe atmosphere. With low maintenance and ease of use, AQBot turned out to be an ideal solution for CETP chlorine gas monitoring.

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.