

BiOWiSH® Odor

BiOWiSH® Reduces Odor at Sugar Refinery Processing Plant - Indonesia

Background

A sugar refinery processing plant in Banten Province, Indonesia produces about 2000 tons of refined sugar every day.

The refining process generates 100m³ of wastewater daily. Wastewater is collected in a lagoon with an estimate 7500m² surface and a 4m average depth. The untreated effluent stored in this lagoon produces strong odors resulting in complaints from nearby residential areas.

CV Abatemen Karya Bersama, authorized distributor of BiOWiSH Technologies in Indonesia, started implementing BiOWiSH® Odor in December 2015 in an effort to solve the odor issue.



Satellite image of the lagoon



Lagoon

Objectives

The main objective of the study was to reduce the strong odor generated from the untreated effluent stored in the lagoon.

Implementation Program

The dosing was performed twice a week with 7kg of BiOWiSH® Odor mixed with water in a clean 8000L water tank. The BiOWiSH® Odor active solution was then directly pumped through a pressurized hose into the lagoon. To ensure complete coverage of the lagoon area, the operators on site used a boat for spraying BiOWiSH® Odor active solution.



Water tank connected to a hose for dosing



Spraying BiOWiSH® Odor on lagoon

BiOWiSH® Odor



- Removes rather than masks odors
- Fast acting
- Effective on a wide range of volatile organic compounds (VOC)
- Cost effective
- Operative at low dosage rates
- Long residual effective period
- Natural and non-toxic

Available Sizes

- 100g/3.5oz
- 1kg/2.2lbs
- 5kg/11lbs
- 10kg/22lbs

Results

Within just 2 weeks of dosing BiOWiSH® Odor, a measurable reduction in odor was reported. Not only was the strong odor reduced significantly, the implementation of BiOWiSH® Odor also helped to reduce the scum from the lagoon's surface.



Before BiOWiSH® Odor application



After BiOWiSH® Odor application

Conclusion

The application of BiOWiSH® Odor to the sugar refinery processing plant effluent lagoon proved to be highly effective. Significant reduction in odor was observed quickly resulting in fewer complaints from nearby residents.

The application of BiOWiSH® Odor proved to be so successful that they have continued dosing BiOWiSH® Odor into the effluent pond for more than two years.



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