CASE STUDY





Executive Summary

Synopsis: The presence of H2S gas at the Sewage Treatment Plant has always resulted with odor complaints from the community and curtailing the high numbers of H2S is a compliance and regulatory requirements. Possibility of running distant lines from the community has its logical challenges which at time results with the community being in close proximity of a Sewage Treatment Plant. The usage of process equipment and capital expenditure is a challenge that every operator faces while trying to tackle the Odor challenges of the plant. The usage of Bio Organic Catalyst provides the operator a distint advantage in tackling the odor in a cost effective manner by eliminating the presence os toxic gases from the sewage water itself

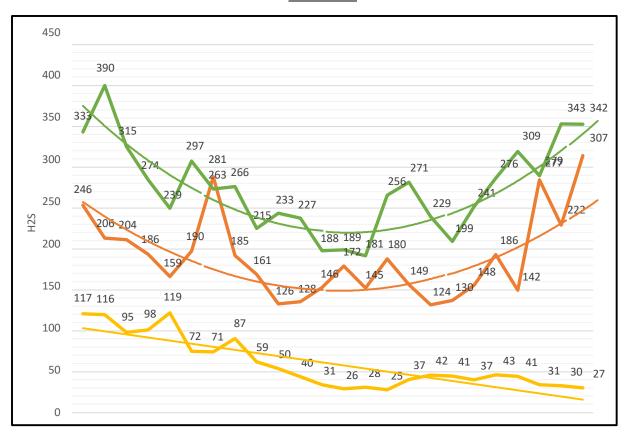
Methodology: Bio organic Catalyst (BOC) is a new technology that provides a platform for Aerobic reaction which ensure higher Oxygen transfer rates thus enusring that Anerobic Stages for the influent is negated while continuing the process. BOC being a protein in nature also provides a unique advantage wherein the application of the product is completely independent from Ambient Temeratures. By improving the Oxygen transfer the scaving properties of various chemicals are also negated thus ensuring a sustainable approach

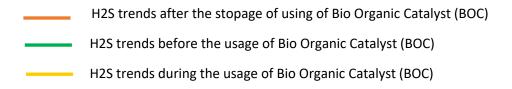
Dosing Plan: To Quantify the impact by the usage of Bio Organic Catalyst it was devised that the operator would review the trend of the H2S generated at the plant and compare it with the trends during the usage of BOC. The usage of BOC was also curbed after its sussessful implementation to confirm if the H2S would again resurface with no usage of BOC. The dosing was done at 1ppm of the BOD load during the pilot after a 2ppm of shock dosage for 2 weeks. Post 2 months of successful completion the BOC dosage was stopped and the data was collected to ascertain the H2S presence.

Results:

- ✓ There has been reduction of over 85% of H2S at the STP inlet after continous usage of BOC
- ✓ The H2S had again resurfaced after the stopage of BOC within 2 weeks.

H2S Trends





*The Cyclic Nature of H2S in line with incoming sewage can be observed without BOC while downtrend with BOC

Case Study Completed By Bio Catalyst Middle East





