

## BiOWiSH® Aqua FOG

### BiOWiSH® Aqua FOG at Haldirams, Akshardham, New Delhi - India

#### Background

Haldiram operates a multi-cuisine QSR (quick service restaurants) and sweet shop in Akshardham (AkD), New Delhi. The restaurant operates from 8:30 am-11:00 pm daily and offers a wide range of food and beverages. Delhi Metro is the water supplier for the AkD location.

#### Problem

The wastewater from the kitchen contains fat and oil which flows into an existing grease trap and ETP. This resulted in the choking of pipelines, excess FOG (fat, oil, and grease) in grease traps, high loading in ETP, and foul odor.

#### Solution

BiOWiSH's local partner in India, InNow India Pvt Ltd, proposed BiOWiSH® Aqua FOG for the treatment of FOG in drains, sumps, and grease traps. BiOWiSH® Aqua FOG uses live cultures to generate the required enzyme chemistry in situ, resulting in rapid FOG degradation and preventing downstream solidification of fats, oil, and grease.

#### Implementation Program

BiOWiSH® Aqua FOG was dosed in pipelines, drains, and sumps for two weeks. Treatment methodology was comprised of the InNow India team and kitchen staff dosing BiOWiSH® Aqua FOG daily in all sinks and drains in the kitchen. Dosing was done around 1 am after the kitchen was cleaned, which reduced the possibility of water in the kitchen pipelines, drains, and sumps.

Daily treatment areas were monitored for following performance parameters:

1. Frequency of choking of pipelines and drains compared to frequency before the treatment.
2. Reduction and elimination of foul odor in sinks and drains. Odor perception and judgment of kitchen team was used to monitor the result.
3. Grease trap was analyzed on daily basis for incoming load and quality of sludge.

#### Results

After implementation of BiOWiSH® Aqua FOG, the following improvements were observed:

- No choking of drains during the period of treatment
- Elimination of odor from sink and drains
- Increased load on grease traps during initial period of 8 days because the pipelines and drains were cleaned of accumulated sludge
- Stabilized sludge load to grease trap. The quality of sludge is soft with low odor and easy to remove

### BiOWiSH® Aqua FOG



- Rapidly reduces fats, oils, and grease
- Reduces sludge production and handling
- Increases plant capacity
- Reduces odors
- Reduces aeration requirements
- Reduces need for chemical additives
- Improves plant stability
- Reduces hydrogen sulfide, ammonia, and nitrates
- Pre-treats influent in collection systems
- Natural and non-toxic

#### Available Sizes

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



*Before Treatment*



*After 10 Days of BiOWiSH® Aqua FOG Treatment*

## Conclusion

During the 16-day period, BiOWiSH® Aqua FOG treatment was successful in cleaning pipelines, reducing frequency of choking of drains, and eliminating odor. Routine feedback of the store employees, maintenance and operations, and kitchen staff validates achievement of the performance results.

Though the pipelines and drains are cleaned, continuation of routine dosing is recommended.



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