

## BiOWiSH® Aqua FOG

### BiOWiSH® Aqua FOG Delivers Rapid 100% Natural Solutions for Barbeque Nation's Drains, Sumps, and Grease Traps in Saket, Delhi

#### Executive Summary

Barbeque Nation operates casual dining restaurants across India, offering live grill, barbeque, and DIY options for vegetarians and non-vegetarians alike. The restaurants serve lunch and dinner offering a variety of food and beverages.

Barbeque Nation uses approximately 3 m<sup>3</sup>/day water in the kitchen, dishwashing area, and bar, the majority of which is drained after use.

#### Background

Wastewater from the kitchen (cooking area and dishwashing area) contains fats and oils which flow from the sink into an existing manhole. Water from this manhole then flows downstream towards the treatment plant. Water is also used in the bar for mixing beverages and is then drained into the sink. A foul odor engulfed the bar area due to the accumulation of juices and syrups containing high sugar and organic waste beneath sink and drainpipe.

The main issues were choking of pipelines, accumulation of excess FOG in drainpipes, and foul odor.

#### Objectives

The objective was to eliminate existing problems and prevent future issues of FOG accumulation and odor using BiOWiSH® Aqua FOG technology.

#### Solution

A 3-week trial was conducted at this location by BiOWiSH's local partner, InNow India Pvt Ltd. The initial dosing was based on the daily water consumption and was estimated as 50 g/day of BiOWiSH® Aqua FOG but, due to heavy accumulation in drainpipes, it was increased to 200 g/day (shock dose) for first few days.

Treatment methodology comprised of daily dosing of BiOWiSH® Aqua FOG in all sinks and drains in the kitchen area. Dosing was done every night after the kitchen was closed. This reduced the possibility of water flowing into kitchen pipelines, drains, and sumps.

#### Monitoring

Monitoring was performed on daily basis and included the following performance parameters:

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

### 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

## Results

The following feedback was received after 3 weeks of dosing BiOWiSH® Aqua FOG at Barbeque Nation, Saket:

- Cleaner under-sink pipe and drainpipe in the bar area
- Total elimination of odor from beverage sink, drainpipe, and manhole in the bar area
- Significantly reduced odor in the kitchen and dishwashing area
- Softening and progressive removal of old accumulated FOG



*Flow of accumulated FOG through kitchen pipe*



*Clean drainpipe after 21 days of BiOWiSH® Aqua FOG treatment*

## Conclusion

During the 3-week treatment period, BiOWiSH® Aqua FOG successfully cleaned the under-sink pipe and drain pipe. Additionally, it eliminated odor in the bar area. Loosening of accumulation in the grease trap was observed, which indicates that BiOWiSH® was able to clear the pipe blockages. Routine feedback of maintenance and operations team validates achievement of above stated performance results. Though the pipelines and drains are cleaned, routine dosing of BiOWiSH® Aqua FOG is recommended.



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**Contact us:**  
wastewater@biowishtech.com  
+1 312 572 6700  
biowishtech.com

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