



• SWIMMING

## Swimming Pool Case Study Thane, India

HydroFLOW® reduced chlorine dosing and backwashing frequency while maintaining pool water clarity and colour.

**55%**

Chemical Cost Savings

**60%**

Water Savings

**50%**

Backwash Reduction



Clear Water Quality

### ⇒ BEFORE & AFTER

**● BEFORE**

- ✗ Backwashing required every 48 hrs
- ✗ High chlorine dosing required
- ✗ Strong chlorine odour present

**● AFTER**

- ✓ Backwashing reduced to weekly
- ✓ Chemical dosing greatly reduced
- ✓ Water clarity remained excellent

### OVERVIEW

Lodha Amara is a residential development in Thane, India with multiple swimming pools serving the complex. A HydroFLOW® P-160 unit was installed at the clubhouse pool system, managing two pools with capacities of 445,000 litres and 110,000 litres. The site required a solution to reduce water losses from frequent backwashing and minimise chlorine dosing while maintaining pool water clarity and quality standards.

### CHALLENGE

Frequent backwashing and heavy chlorine dosing created high operating costs and strong chlorine odours.

- 5kg bleaching powder added every alternate day
- 1kg TCCA dosed every alternate day
- 5000 litres lost during each backwash
- Algae growth affected water clarity



## SOLUTION

A *HydroFLOW*® P-160 unit was installed before the pump to reduce chemical dosing and backwashing frequency while maintaining pool water quality.

### UNIT INSTALLED

1x *HydroFLOW*® P-160

### PIPE SIZE

130mm GI Pipe

### INSTALLATION POINT

Before Pump

### INSTALLATION DATE

18 August 2019



### SITE

*Lodha Amara Site*



### SYSTEM

*Pool filtration system*



### INSTALLATION

*HydroFLOW*® P-160 unit



## RESULTS

### 💧 60% Water Savings

Reduced backwashing frequency lowered water consumption significantly.

### 💰 55% Chemical Savings

Chemical dosing costs were reduced during the trial period.

### 📦 Chlorine Dosing Lowered

Bleaching powder and TCCA dosing frequencies were reduced.

### 🕒 Backwashing Reduced

From every 2 days to weekly.

### 🌊 Clear Water Maintained

Water clarity and colour remained high.

### 👃 Odour Reduced

Chlorine odour in the water was reduced.

### KEY TAKEAWAY

## Summary

*HydroFLOW*® helped Lodha Amara reduce water loss, chlorine dosing and backwashing frequency while maintaining clear pool water across the swimming pool system.

**55%**

CHEMICAL COST SAVINGS

**60%**

WATER SAVINGS

**50%**

BACKWASH REDUCTION

**HYDROPATH**

## Ready to reduce pool chemical usage?

Get a free consultation for your swimming pool facility.

✉ sales@hydropath.com

☎ +44 (0)115 986 9966

🌐 [hydropath.com](http://hydropath.com)

✓ ISO 14001:2015

✓ ISO 9001:2015

✓ GREENPRO

✓ SOLAR IMPULSE