WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



# SAROVAR PORTICO HARIDWAR

AMBROSIA SAROVAR PORTICO
Haridwar - NH 334
A SAROVAR HOTEL

## FAUCET FLOW ASSESSMENT

Jalsenx conducted an on-site faucet flow assessment to evaluate water-saving potential using different aerator solutions without compromising user experience.

Savings projection
**100 UNITS**
BASEMENT WASHROOM

MEASURED FLOW REDUCTION
**50% – 75%**
Depending on Solution

ESTIMATED ANNUAL SAVINGS
**₹63,072 – ₹94,608**
Depending on Solution

ESTIMATED PAYBACK
**1 MONTH**
Depending on Solution

## 1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
**9.6**
**LPM**
Existing Flow Rate

→

WITH 4 LPM FOAM AERATOR
**4.8**
**LPM**
Flow Rate After Installation (50% Reduction)

→

WITH 2 LPM SPRAY AERATOR
**2.4**
**LPM**
Flow Rate After Installation (75% Reduction)

WATER REDUCTION COMPARISON




With 4 LPM Foam Aerator
With 2 LPM Spray Aerator

## 2. ANNUAL SAVINGS POTENTIAL (BASED ON 100 AERATORS)

OPTION 1 — 4 LPM FOAM AERATOR



| Water Reduction | Water Saved | Annual Cost Savings | Estimated Payback |
|---|---|---|---|
| 50% | 3,504 KL / YEAR | ₹63,072 | 2 MONTH |

*Ideal for maintaining a comfortable flow while achieving significant water savings.*

OPTION 2 — 2 LPM SPRAY AERATOR



| Water Reduction | Water Saved | Annual Cost Savings | Estimated Payback |
|---|---|---|---|
| 75% | 5,256 KL / YEAR | ₹94,608 | 1 MONTH |

*Ideal for areas where maximum water conservation is the priority.*

## 3. COMPARISON AT A GLANCE

| PARAMETER | EXISTING (WITHOUT AERATOR) | 4 LPM FOAM AERATOR | 2 LPM SPRAY AERATOR |
|---|---|---|---|
| Flow Rate (LPM) | 9.6 | 4.8 | 2.4 |
| Water Reduction | - | 50% | 75% |
| Water Saved (KL / Year) | - | 3,504 | 5,256 |
| Annual Cost Savings (₹) | - | ₹63,072 | ₹94,608 |
| Estimated Payback Period | - | 1 MONTH | 1 MONTH |

** Calculations based on: 100 aerators, 20 minutes/day usage per fixture, 365 days/year, water cost @ ₹18 per KL.*

## 4. DEMONSTRATION DETAILS

PRODUCTS DEMONSTRATED
4 LPM Foam Faucet Aerator, 2 LPM Spray Faucet Aerator

UNITS DEMONSTRATED
100 Pieces

FLOW RATE BEFORE DEMONSTRATION
9.6 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)
4.8 LPM

FLOW RATE AFTER DEMONSTRATION (2 LPM)
2.4 LPM

OBSERVED FLOW REDUCTION
50% (4 LPM) | 75% (2 LPM)

## 5. SAVINGS CALCULATION (100 AERATORS)

### 4 LPM Foam Aerator

- Flow Reduction per Aerator: 9.6 − 4.8 = 4.8 LPM
- Daily Water Saved per Aerator: 4.8 × 20 = 96 L/day
- Daily Water Saved (100 Aerators): 96 × 100 = 9,600 L/day
- Annual Water Saved: 9,600 × 365 / 1000 = 3,504 KL/year
- Annual Cost Savings: 3,504 × ₹18 = ₹63,072

### 2 LPM Spray Aerator

- Flow Reduction per Aerator: 9.6 − 2.4 = 7.2 LPM
- Daily Water Saved per Aerator: 7.2 × 20 = 144 L/day
- Daily Water Saved (100 Aerators): 144 × 100 = 14,400 L/day
- Annual Water Saved: 14,400 × 365 / 1000 = 5,256 KL/year
- Annual Cost Savings: 5,256 × ₹18 = ₹94,608

## 6. RECOMMENDATION

✓ RECOMMENDED SOLUTION FOR GENERAL APPLICATIONS

**4 LPM FOAM AERATOR**

- Significant water savings with comfortable flow
- Ideal for washrooms, basements & general use areas
- Faster adoption with excellent user satisfaction

✓ MAXIMUM SAVINGS OPTION

**2 LPM SPRAY AERATOR**

- Higher water and cost savings
- Suitable for areas where lower flow is operationally acceptable
- Recommended for selective installation

For optimal results, use 4 LPM in guest-facing areas and 2 LPM in back-

## ABOUT JALSENX

Jalsenx provides high-performance, retrofit water-saving aerators and flow regulators for hotels, hospitals, commercial buildings and institutions across India.

## Want to know how mach con your property save

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*Disclaimer: Measured results are based on the assessed fixtures and operating conditions. Actual water savings may vary depending on usage patterns and operating conditions.*