

AMRITA HOSPITAL
FARIDABAD

FAUCET FLOW ASSESSMENT

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



AREA ASSESSED

1

BASEMENT WASHROOM



MEASURED FLOW REDUCTION

67% – 83%

Depending on Solution



ESTIMATED ANNUAL SAVINGS

₹1,26,144 – ₹1,57,680

Depending on Solution



ESTIMATED PAYBACK

1 MONTH

Depending on Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)

14.4
LPM

Existing Flow Rate



WITH 4 LPM FOAM AERATOR

4.8
LPM

Flow Rate After Installation (67% Reduction)

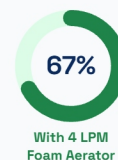
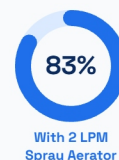


WITH 2 LPM SPRAY AERATOR

2.4
LPM

Flow Rate After Installation (83% Reduction)

WATER REDUCTION COMPARISON

With 4 LPM
Foam AeratorWith 2 LPM
Spray Aerator

2. ANNUAL SAVINGS POTENTIAL (BASED ON 100 AERATORS)

OPTION 1

4 LPM FOAM AERATOR

Water
Reduction
67%Water
Saved
7,008
KL / YEARAnnual Cost
Savings
₹1,26,144Estimated
Payback
1
MONTH

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

OPTION 2

2 LPM SPRAY AERATOR

Water
Reduction
83%Water
Saved
8,760
KL / YEARAnnual Cost
Savings
₹1,57,680Estimated
Payback
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)	14.4	4.8	2.4
Water Reduction	–	67%	83%
Water Saved (KL / Year)	–	7,008	8,760
Annual Cost Savings (₹)	–	₹1,26,144	₹1,57,680
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

14.4 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)

4.8 LPM

FLOW RATE AFTER DEMONSTRATION (2 LPM)

2.4 LPM

OBSERVED FLOW REDUCTION

67% (4 LPM) | 83% (2 LPM)

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator: 14.4 – 4.8 = 9.6 LPM
- Daily Water Saved per Aerator: 9.6 × 20 = 192 L/day
- Daily Water Saved (100 Aerators): 192 × 100 = 19,200 L/day
- Annual Water Saved: 19,200 × 365 / 1000 = 7,008 KL/year
- Annual Cost Savings: 7,008 × ₹18 = ₹1,26,144

2 LPM Spray Aerator

- Flow Reduction per Aerator: 14.4 – 2.4 = 12 LPM
- Daily Water Saved per Aerator: 12 × 20 = 240 L/day
- Daily Water Saved (100 Aerators): 240 × 100 = 24,000 L/day
- Annual Water Saved: 24,000 × 365 / 1000 = 8,760 KL/year
- Annual Cost Savings: 8,760 × ₹18 = ₹1,57,680

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-of-house / low-flow applications.



ABOUT JALSENX

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

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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.