WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



HOTEL FAIRFIELD LUCKNOW

Fairfield BY MARRIOTT

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	MEASURED FLOW REDUCTION	ESTIMATED ANNUAL SAVINGS	ESTIMATED PAYBACK
100 UNITS	30% – 60%	₹23,652 – ₹47,304	3 MONTH
BASEMENT WASHROOM	Depending on Solution	Depending on Solution	Depending on Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
6 LPM
Existing Flow Rate

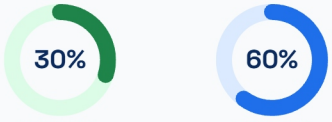
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WITH 4 LPM FOAM AERATOR
4.2 LPM
Flow Rate After Installation (30% Reduction)

→

WITH 2 LPM SPRAY AERATOR
2.4 LPM
Flow Rate After Installation (60% 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
30%	1,314 KL / YEAR	₹23,652	5 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
60%	2,628 KL / YEAR	₹47,304	3 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)	6	4.2	2.4
Water Reduction	-	30%	60%
Water Saved (KL / Year)	-	1,314	2,628
Annual Cost Savings (₹)	-	₹23,652	₹47,304
Estimated Payback Period	-	5 MONTH	3 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
6 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)
4.2 LPM

FLOW RATE AFTER DEMONSTRATION (2 LPM)
2.4 LPM

OBSERVED FLOW REDUCTION
30% (4 LPM) | 60% (2 LPM)

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator: 6 − 4.2 = 1.8 LPM
- Daily Water Saved per Aerator: 1.8 × 20 = 36 L/day
- Daily Water Saved (100 Aerators): 36 × 100 = 3,600 L/day
- Annual Water Saved: 3,600 × 365 / 1000 = 1,314 KL/year
- Annual Cost Savings: 1,314 × ₹18 = ₹23,652

2 LPM Spray Aerator

- Flow Reduction per Aerator: 6 − 2.4 = 3.6 LPM
- Daily Water Saved per Aerator: 3.6 × 20 = 72 L/day
- Daily Water Saved (100 Aerators): 72 × 100 = 7,200 L/day
- Annual Water Saved: 7,200 × 365 / 1000 = 2,628 KL/year
- Annual Cost Savings: 2,628 × ₹18 = ₹47,304

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.

Want to know how much can 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.