WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



TAJ LANDS END, BANDRA MUMBAI

TAJ LANDS END MUMBAI

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
53% – 60%
Depending on Solution

ESTIMATED ANNUAL SAVINGS
₹63,072 – ₹70,956
Depending on Solution

ESTIMATED PAYBACK
1 MONTH
Depending on Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
9
LPM
Existing Flow Rate

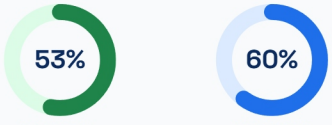
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WITH 4 LPM FOAM AERATOR
4.2
LPM
Flow Rate After Installation (53% Reduction)

→

WITH 2 LPM SPRAY AERATOR
3.6
LPM
Flow Rate After Installation (60% Reduction)

WATER REDUCTION COMPARISON



2. ANNUAL SAVINGS POTENTIAL (BASED ON 100 AERATORS)

OPTION 1 — **4 LPM FOAM AERATOR**



Water Reduction	Water Saved	Annual Cost Savings	Estimated Payback
53%	3,504 KL / YEAR	₹63,072	2 MONTH

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

OPTION 2 — **3 LPM SPRAY AERATOR**



Water Reduction	Water Saved	Annual Cost Savings	Estimated Payback
60%	3,942 KL / YEAR	₹70,956	2 MONTH

Ideal for areas where maximum water conservation is the priority.

3. COMPARISON AT A GLANCE

PARAMETER	EXISTING (WITHOUT AERATOR)	4 LPM FOAM AERATOR	3 LPM SPRAY AERATOR
Flow Rate (LPM)	9	4.2	3.6
Water Reduction	-	53%	60%
Water Saved (KL / Year)	-	3,504	3,942
Annual Cost Savings (₹)	-	₹63,072	₹70,956
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, 3 LPM Spray Faucet Aerator

UNITS DEMONSTRATED
100 Pieces

FLOW RATE BEFORE DEMONSTRATION
9 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)
4.2 LPM

FLOW RATE AFTER DEMONSTRATION (3 LPM)
3.6 LPM

OBSERVED FLOW REDUCTION
53% (4 LPM) | 60% (3 LPM)

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator: 9 − 4.2 = 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

3 LPM Spray Aerator

- Flow Reduction per Aerator: 9 − 3.6 = 5.4 LPM
- Daily Water Saved per Aerator: 5.4 × 20 = 108 L/day
- Daily Water Saved (100 Aerators): 108 × 100 = 10,800 L/day
- Annual Water Saved: 10,800 × 365 / 1000 = 3,942 KL/year
- Annual Cost Savings: 3,942 × ₹18 = ₹70,956

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

3 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 3 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.