WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



MUKESH PATEL SCHOOL OF TECHNOLOGY, MUMBAI

NMIMS
MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

FAUCET FLOW ASSESSMENT

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

Savings projection	MEASURED FLOW REDUCTION	ESTIMATED ANNUAL SAVINGS	ESTIMATED PAYBACK TIME
100 UNITS	64%	₹1,10,376	1 MONTH
BASEMENT WASHROOM	4 LPM Foam Aerator	Selected Solution	Selected Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
13.
LPM
Existing Flow Rate

→

WITH 4 LPM FOAM AERATOR
4.8
LPM
Flow Rate After Installation (64% Reduction)

WATER FLOW REDUCTION
64%
With 4 LPM Foam Aerator

2. ANNUAL SAVINGS POTENTIAL (BASED ON 100 AERATORS)

SELECTED

4 LPM FOAM AERATOR



Water Reduction	Water Saved	Annual Cost Savings	Estimated Payback Time
64%	6,132 KL / YEAR	₹1,10,376	1 MONTH

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

3. COMPARISON AT A GLANCE

PARAMETER	EXISTING (WITHOUT AERATOR)	SELECTED SOLUTION
Flow Rate (LPM)	13.2	4.8
Water Reduction	-	64%
Water Saved (KL / Year)	-	6,132
Annual Cost Savings (₹)	-	₹1,10,376
Estimated Payback Period	-	1 MONTH

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

4. DEMONSTRATION DETAILS

PRODUCT DEMONSTRATED
4 LPM Foam Faucet Aerator

SAVINGS PROJECTION
100 Pieces

FLOW RATE BEFORE DEMONSTRATION
13.2 LPM

FLOW RATE AFTER DEMONSTRATION
4.8 LPM

OBSERVED FLOW REDUCTION
64%

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator:
13.2 − 4.8 = 8.4 LPM
- Daily Water Saved per Aerator:
8.4 × 20 = 168 L/day
- Daily Water Saved (100 Aerators):
168 × 100 = 16,800 L/day
- Annual Water Saved:
16,800 × 365 / 1000 = 6,132 KL/year
- Annual Cost Savings:
6,132 × ₹18 = ₹1,10,376

6. RECOMMENDATION

✓ **RECOMMENDED SOLUTION**

4 LPM FOAM AERATOR

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

For optimal results, install the selected 4 LPM Foam Aerator across all applicable faucet points

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.