WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



METRO HOSPITAL, NOIDA

MADHUBAN DEHRADUN

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	31% – 49%	₹28,908 – ₹44,676	1 MONTH
BASEMENT WASHROOM	Depending on Solution	Depending on Solution	Depending on Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
7 LPM
Existing Flow Rate

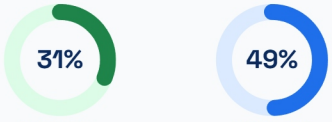
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WITH 4 LPM FOAM AERATOR
4.8 LPM
Flow Rate After Installation (31% Reduction)

→

WITH 3 LPM SPRAY AERATOR
3.6 LPM
Flow Rate After Installation (49% 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
31%	1,606 KL / YEAR	₹28,908	4 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
49%	2,482 KL / YEAR	₹44,676	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)	7	4.8	3.6
Water Reduction	-	31%	49%
Water Saved (KL / Year)	-	1,606	2,482
Annual Cost Savings (₹)	-	₹28,908	₹44,676
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
7 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)
4.8 LPM

FLOW RATE AFTER DEMONSTRATION (3 LPM)
3.6 LPM

OBSERVED FLOW REDUCTION
31% (4 LPM) | 49% (3 LPM)

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator: 7 – 4.8 = 2.2 LPM
- Daily Water Saved per Aerator: 2.2 × 20 = 44 L/day
- Daily Water Saved (100 Aerators): 44 × 100 = 4,400 L/day
- Annual Water Saved: 4,400 × 365 / 1000 = 1,606 KL/year
- Annual Cost Savings: 1,606 × ₹18 = ₹28,908

3LPM Spray Aerator

- Flow Reduction per Aerator: 7 – 3.6 = 3.4 LPM
- Daily Water Saved per Aerator: 3.4 × 20 = 68 L/day
- Daily Water Saved (100 Aerators): 68 × 100 = 6,800 L/day
- Annual Water Saved: 6,800 × 365 / 1000 = 2,482 KL/year
- Annual Cost Savings: 2,482 × ₹18 = ₹44,676

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.