WATER ASSESSMENT REPORT

Jalsenx
Intelligent Water Technologies



STARZ CLARK INN HOTEL MUSSOORIE

clarks inn

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	71% – 75%	₹1,34,028 – ₹1,41,912	1 MONTH
BASEMENT WASHROOM	Depending on Solution	Depending on Solution	Depending on Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)
14.4 LPM
Existing Flow Rate

→

WITH 4 LPM FOAM AERATOR
4.2 LPM
Flow Rate After Installation (71% Reduction)

→

WITH 3 LPM SPRAY AERATOR
3.6 LPM
Flow Rate After Installation (75% 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
71%	7,446 KL / YEAR	₹1,34,028	1 MONTH

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

OPTION 2 — 3LPM SPRAY AERATOR



Water Reduction	Water Saved	Annual Cost Savings	Estimated Payback
75%	7,884 KL / YEAR	₹1,41,912	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	3 LPM SPRAY AERATOR
Flow Rate (LPM)	14.4	4.2	3.6
Water Reduction	-	71%	75%
Water Saved (KL / Year)	-	7,446	7,884
Annual Cost Savings (₹)	-	₹1,34,028	₹1,41,912
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
14.4 LPM

FLOW RATE AFTER DEMONSTRATION (4 LPM)
4.2 LPM

FLOW RATE AFTER DEMONSTRATION (3LPM)
3.6 LPM

OBSERVED FLOW REDUCTION
71% (4 LPM) | 75% (3 LPM)

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Aerator: 14.4 – 4.2 = 10.2 LPM
- Daily Water Saved per Aerator: 10.2 × 20 = 204 L/day
- Daily Water Saved (100 Aerators): 204 × 100 = 20,400 L/day
- Annual Water Saved: 20,400 × 365 / 1000 = 7,446 KL/year
- Annual Cost Savings: 7,446 × ₹18 = ₹1,34,028

3 LPM Spray Aerator

- Flow Reduction per Aerator: 14.4 – 3.6 = 10.8 LPM
- Daily Water Saved per Aerator: 10.8 × 20 = 216 L/day
- Daily Water Saved (100 Aerators): 216 × 100 = 21,600 L/day
- Annual Water Saved: 21,600 × 365 / 1000 = 7,884 KL/year
- Annual Cost Savings: 7,884 × ₹18 = ₹1,41,912

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.