WATER ASSESSMENT REPORT



Jalsenx
Intelligent Water Technologies

RIVATAS HOTEL, VARANSI

RAMADA BY WYNDHAM VARANASI KATESAR

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	65%	₹1,02,492	1 MONTH
BASEMENT WASHROOM	4 LPM Foam Aerator	Selected Solution	Selected Solution

1. MEASURED RESULTS – FAUCET FLOW

EXISTING FLOW (BEFORE)

12 LPM

Existing Flow Rate

→

WITH 4 LPM FOAM AERATOR

4.2 LPM

Flow Rate After Installation (65% Reduction)

→

WATER FLOW REDUCTION

65%

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
65%	5,694 KL / YEAR	₹1,02,492	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)	12	4.2
Water Reduction	-	65%
Water Saved (KL / Year)	-	5,694
Annual Cost Savings (₹)	-	₹1,02,492
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
12 LPM

FLOW RATE AFTER DEMONSTRATION
4.2 LPM

OBSERVED FLOW REDUCTION
65%

5. SAVINGS CALCULATION (100 AERATORS)

4 LPM Foam Aerator

- Flow Reduction per Tap:
  12 − 4.2 = 7.8 LPM
- Daily Water Saved per Tap:
  7.8 × 20 = 156 L/day
- Daily Water Saved (100 Aerators):
  156 × 100 = 15,600 L/day
- Annual Water Saved:
  15,600 × 365 / 1000 = 5,694 KL/year
- Annual Cost Savings:
  5,694 × ₹18 = ₹1,02,492

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.