WATER ASSESSMENT REPORT



Jalsenx
Intelligent Water Technologies

HOTEL EFFOTEL
DEHRADUN

EFFOTEL by Sayaji

FAUCET & SHOWER FLOW ASSESSMENT

Jalsenx conducted an on-site flow assessment to evaluate water-saving potential using faucet aerators and a shower flow regulator without compromising user experience.

SAVINGS PROJECTION	ESTIMATED WATER SAVINGS	ESTIMATED ANNUAL SAVINGS	ESTIMATED PAYBACK TIME
100 UNITS	6,570KL / YEAR	₹ 1,18,260	1 MONTHS
(Based on projection)	(With selected combination)	(With selected combination)	(Based on total investment)

1. MEASURED RESULTS – FLOW RATES

FIXTURE / PRODUCT	BEFORE (LPM)	AFTER (LPM)	WATER SAVING (%)
4 LPM FOAM AERATOR (OPTION 1)	13	4.8	68%
2 LPM SPRAY AERATOR (OPTION 2)	13	2.4	83%
6 LPM FOAM AERATOR	8.4	6.6	50%

SELECTED SOLUTION FOR SAVINGS CALCULATION

OPTION 1
4 LPM FOAM AERATOR
Flow Reduction 68%

OR

OPTION 2
2 LPM SPRAY AERATOR
Flow Reduction 83%

+

6 LPM FOAM AERATOR
Flow Reduction 50%

One aerator (either Option 1 or Option 2) will be installed along with the shower flow regulator.

2. ANNUAL SAVINGS POTENTIAL (BASED ON 1 ROOMS)

CONFIGURATION	WATER SAVED (KL / YEAR)	ANNUAL COST SAVINGS (₹ / YEAR)	PAYBACK PERIOD
4 LPM Foam Aerator + Shower Regulator	6,570	₹ 1,18,260	1 MONTHS
2 LPM Spray Aerator + Shower Regulator	7,884	₹ 1,41,912	1 MONTHS

3. COMPARISON AT A GLANCE

PARAMETER	EXISTING (WITHOUT REGULATORS)	WITH 4 LPM + SHOWER REGULATOR	WITH 2 LPM + SHOWER REGULATOR
Tap Flow Rate (LPM)	13	4.8	2.4
Shower Flow Rate (LPM)	8.4	6.6	6.6
Overall Water Reduction	-	Approx. 68%	Approx. 83%
Water Saved (KL / Year)	-	6,570	7,884
Annual Cost Savings (₹)	-	₹ 1,18,260	₹ 1,41,912
Estimated Payback Period	-	1 MONTHS	1 MONTHS

** Calculations based on 1 rooms, 20 minutes/day usage per fixture, 365 days/year, water cost of ₹18*

4. CALCULATION BASIS

- 1 rooms with average tap and shower usage of 20 minutes per day
- Tap flow rate: 13 LPM (before)
- Shower flow rate: 8.4 LPM (before)
- Water cost: ₹18 per KL

5. RECOMMENDATION

- Use 2 LPM Spray Aerator for maximum water savings (recommended)
- Use 4 LPM Foam Aerator where higher flow is preferred
- Install shower flow regulator in all showers
- Quick payback with long-term savings

Save Water.
Create a Better Tomorrow.

Efficient Solutions for Sustainable Hospitality.

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.