WATER ASSESSMENT REPORT



Jalsenx
Intelligent Water Technologies

FAIRFIELD MARRIOTT
DEHRADUN

Fairfield BY MARRIOTT — DEHRADUN

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	5,694 KL / YEAR	₹ 1,02,492	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)	12	4.2	65%
2 LPM SPRAY AERATOR (OPTION 2)	12	1.8	85%
SHOWER FLOW REGULATOR	12	6.6	50%

SELECTED SOLUTION FOR SAVINGS CALCULATION

OPTION 1
4 LPM FOAM AERATOR
Flow Reduction 65%

OR

OPTION 2
2 LPM SPRAY AERATOR
Flow Reduction 85%

+

SHOWER FLOW REGULATOR
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 100 ROOMS)

CONFIGURATION	WATER SAVED (KL / YEAR)	ANNUAL COST SAVINGS (₹ / YEAR)	PAYBACK PERIOD
4 LPM Foam Aerator + Shower Regulator	5,694	₹ 1,02,492	1 MONTHS
2 LPM Spray Aerator + Shower Regulator	7,446	₹ 1,34,028	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)	12	4.2	1.8
Shower Flow Rate (LPM)	10.8	6.6	6.6
Overall Water Reduction	-	Approx. 65%	Approx. 85%
Water Saved (KL / Year)	-	5,694	7,446
Annual Cost Savings (₹)	-	₹ 1,02,492	₹ 1,34,028
Estimated Payback Period	-	2 MONTHS	1 MONTHS

** Calculations based on 100 rooms, 20 minutes/day usage per fixture, 365 days/year, water cost of ₹18*

4. CALCULATION BASIS

- 100 rooms with average tap and shower usage of 20 minutes per day
- Tap flow rate: 12 LPM (before)
- Shower flow rate: 10.8 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 ?

Book a Free Water Assessment →

WhatsApp Us

www.jalsenx.com

Disclaimer: Measured results are based on the assessed fixtures and operating conditions. Actual water savings may vary depending on usage patterns and operating conditions.