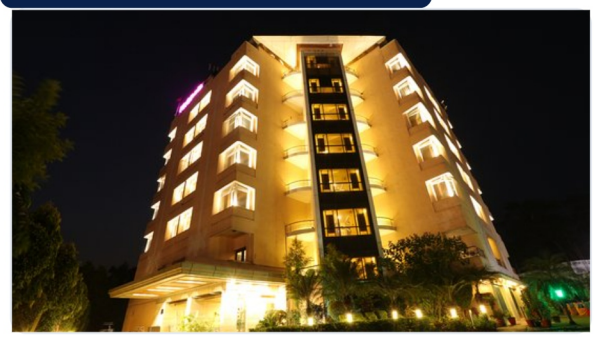
**WATER ASSESSMENT REPORT**



Jalsenx
Intelligent Water Technologies

# HOTEL RADISSON
## AGRA

RE:GEN:TA RESORT SAKLESHPUR
BY ROYAL ORCHID HOTELS LTD.

### 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 | 5,256 KL / YEAR | ₹94,608 | 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) (Washbasin) | 11.4 | 4.2 | 63% |
| 2 LPM SPRAY AERATOR (OPTION 2) (Washbasin) | 11.4 | 2.4 | 79% |
| 6 LPM FOAM AERATOR (Hand Shower) | 11.4 | 6.6 | 42% |

### SELECTED SOLUTION FOR SAVINGS CALCULATION

**OPTION 1**
4 LPM FOAM AERATOR
Flow Reduction 63%

OR

**OPTION 2**
2 LPM SPRAY AERATOR
Flow Reduction 79%

+

6 LPM FOAM AERATOR (Hand Shower)
Flow Reduction 42%

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 | 5,256 | ₹ 94,608 | 1 MONTHS |
| 2 LPM Spray Aerator + Shower Regulator | 6,570 | ₹ 1,18,260 | 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) | 11.4 | 4.2 | 2.4 |
| Shower Flow Rate (LPM) | 11.4 | 6.6 | 6.6 |
| Overall Water Reduction | - | Approx. 63% | Approx. 79% |
| Water Saved (KL / Year) | - | 5,256 | 6,570 |
| Annual Cost Savings (₹) | - | ₹ 94,608 | ₹52,542 |
| 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: 11.4 LPM (before)
- Shower flow rate: 11.4 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 ?

Book a Free Water Assessment →

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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.*