



Confederation of Indian Industry



CII-TRIVENI WATER INSTITUTE

HOSPITALITY SECTOR ENHANCING COMPETITIVENESS FROM WATER AUDITS



Buildings—both institutional, commercial such as hotels, restaurants etc. are important consumers of fresh water. Depending on the type, the water requirement in hotels is mostly found to lie between 150- 250 litres per capita per day (lpcd), averaging to around 200 lpcd . International benchmarks are much less. For the sector to meet the growing demands and attract customers, it remains essential to manage and conserve the resources that remain integral to its operations. Water here holds a key. To ensure efficient water use and wastewater management, it is imperative to quantify the usage at each step. This calls for a water audit.

Water Audits by CII-Triveni Water Institute for different buildings, largely hotels, with different consumption patterns shows that it makes immense economic sense to bring down the specific water use in the buildings.

What gets measured, Gets managed

Water audits provide effective solutions to Hotels to reduce their water consumption without compromising on the services being offered to the guests.

Water Requirements for Buildings (in lpcd)

Hospital	340
Factories	45
Hotel	180
Offices	45
Restaurants	70
Theatres	15
Schools	45

Source: Bureau of Indian Standards 1993

CII TWI's recommendations can result in huge economic benefits:

- 15-20% water savings possible by low cost strategies; payback 4 -5 months .
- 30-40 % water savings possible by medium-high cost strategies; payback 1.5-2 years
- Wastewater recycling can yield considerable benefits (40-50% potential saving)

Water audits by CII -TWI integrate triple - bottom line.

- Attractive pay back; to an extent of less than a few months
- Delivering on financial front
- Enhances opportunities for saving water & recycling wastewater thereby delivering both on resource & environmental front
- Gives a competitive advantage: businesses that manage water well are better businesses
- Enhances a hotel's reputation by being proactive in protecting the environment and the ecosystem.



Water Audit by CII-TWI in a leading chain of hotels in North India, demonstrated potential annual water savings of 150 million liters (low- medium cost strategies; pay back < 1.5 year)

- Reducing water use by clubbing processes together
- Recovery & Reuse of condensate from Air handling Units
- Improve Cycle of concentrations in the cooling towers
- Re-use of filter backwash water
- Reduce domestic water consumption by installing water saving devices



Water Audit Approach

Last Mile discipline

- Use of state-of-the-art tools, instruments and techniques
- Well-equipped team to handle ultrasonic potable flow meters, water quality analysis
- Use of softwares for deriving plant water balance, process flow charts, and integrating (wherever required) with sophisticated GIS based systems

Customized approach specific to units

- Covers both utilities and process side evaluations
- Develops water balance, baseline and benchmark



Get your Water Audit done Today

Contact:

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