



Confederation of Indian Industry



CII-TRIVENI
WATER INSTITUTE

PULP & PAPER SECTOR ENHANCING COMPETITIVENESS THROUGH WATER AUDITS



Pulp and Paper industry, one of the key industrial sectors contributing to the Indian Economy, is a highly capital, energy and water intensive sector. For the industry to meet the growing demands, it remains essential to manage and conserve the resources that remain integral to its operations. Water here holds a key.

The analysis based on Water audits by CII-Triveni Water Institute for pulp and paper mills with different capacities, processes (integrated pulp and paper to newsprint to specialty papers- Kraft paper, paper boards etc.) and spread across regions, show considerable opportunities:

- 20% water savings by low cost strategies; payback less than few months
- 30-40 % water savings by low -medium term strategies; payback less than a year

Findings reveal, depending on scale of operation and category, specific water use varies considerably, averaging around 60 – 70 cu.m./tonne of product (in case of larger mills, the use is even > 100 cu.m./tonne of product). International benchmarks however are lower.

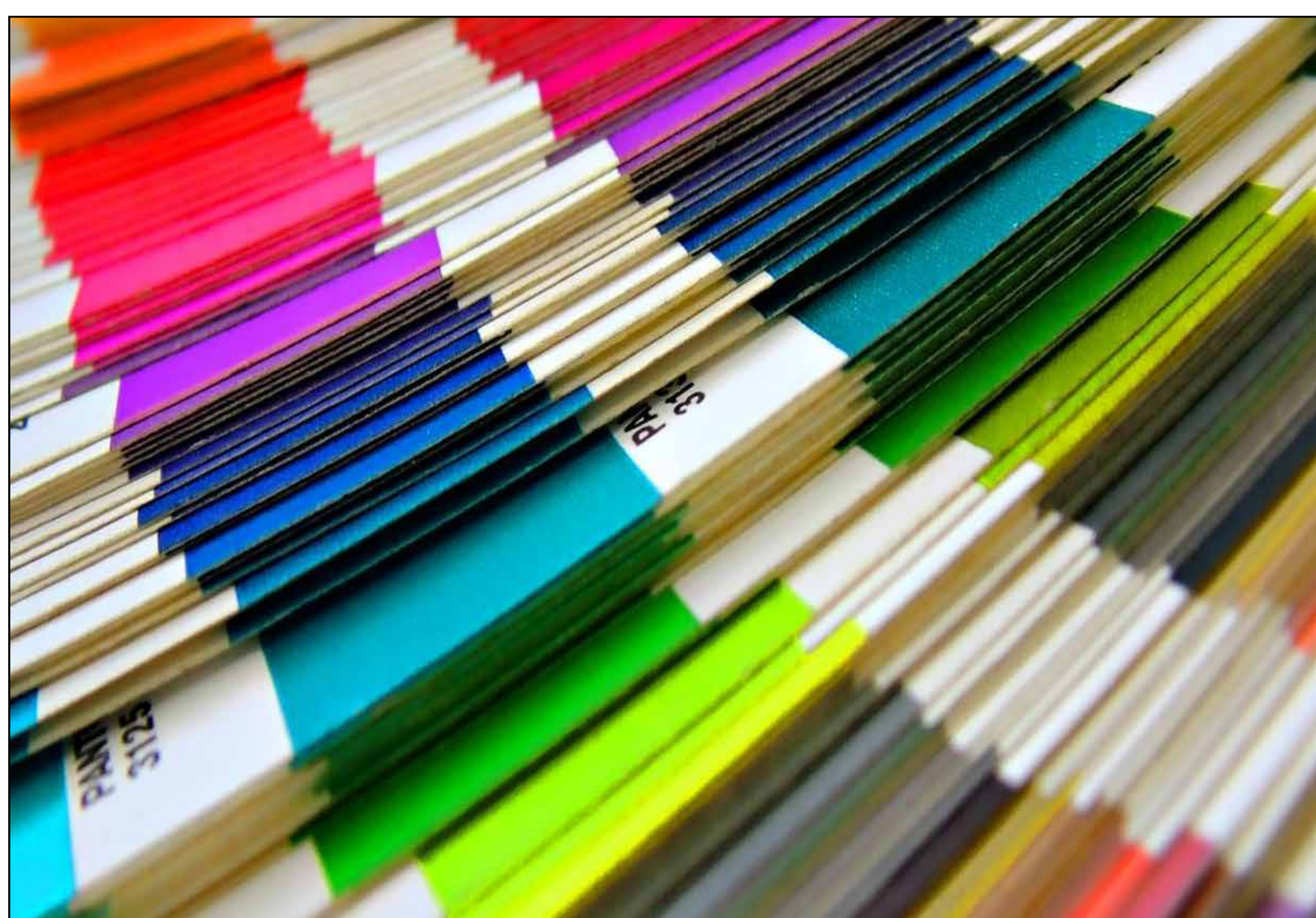


Water Audit Approach Last Mile discipline

- Use of state-of-the-art tools, instruments and techniques
 - Well-equipped team to handle ultrasonic potable flow meters, water quality analysis
 - Use of software 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.



Specific strategies for specific units: Water Audit findings of a pulp and paper mill in North India at the foothills of Shivaliks, showed high water saving opportunities available from water and waste heat recovery from Boiler Continuous Blowdown.



Integrating triple bottom line

- Attractive pay back of less than a few months
- Delivering on financial front
- Enhanced opportunities that lead to saving fresh water and recycling wastewater thereby delivering both on resource and environmental front



Get your Water Audit done Today

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