



Confederation of Indian Industry



CII-TRIVENI  
WATER INSTITUTE

# AUTOMOBILE SECTOR ENHANCING COMPETITIVENESS THROUGH WATER AUDITS LESS WATER PER VEHICLE



Producing a car uses 1.4 lakh litres of water\*

## Water consumption areas in Automobile Industry

- Surface Treatment And Coating
- Paint Spray Booths
- Washing
- Rinsing
- Cooling
- Air-Conditioning Systems
- Boilers

Depending on the scale of operation and category the specific water use varies from 0.30 – 0.50 m<sup>3</sup>/vehicle in two wheeler segment and 4.7 – 10.8 m<sup>3</sup>/vehicle in four wheeler segment. CII TWI's analysis and experience shows that it makes huge economic sense and financial case to bring down the specific water use in the Automobile Industry.

Water audits by CII-Triveni Water Institute for different automobile units, spread across regions show considerable water saving opportunities.

- 20% water savings possible by low-medium cost strategies; payback < 6-7 months
- 30-40 % water savings possible by high cost strategies; payback mostly 1.5 - 2 years



## 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's 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



## Strategies that can enable water savings include:

- Reducing water use by clubbing processes together
- Reuse of treated water using advanced technologies for high end applications
- Re-use of reject water for low end applications- flushing, gardening
- Improving Cycles of Concentration in cooling towers
- Reduce domestic water consumption by installing water saving devices

## Integrating triple bottom line

- Attractive pay back; 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



Source \*EPA United States Environmental Protection agency

Get your Water Audit done Today

### Contact:

CEO & ED CII-Triveni Water Institute 249-F, Sector 18, Udyog Vihar, Phase IV, Gurgaon-122015, Haryana, India  
T: 91-124-4309449 E: kapil.narula@cii.in ; wateradvisory@cii.in W: www.cii.in