



CII National Award

For Excellence in Water Management “ Within the Fence”

November 2014 : New Delhi

Objective

- Recognize and Award “Excellence” in Water Management in Industries
- To recognize the leadership role in implementing water and watershed management projects with the involvement of public / private agencies and community.

Eligibility

All private sector Industries are eligible for CII National Award: Excellence in water management “Within the fence”

Methodology

- Companies will be short-listed based on the questionnaire.
- Evaluation of the questionnaire will be based on :
 - ❖ Innovation in projects implemented
 - ❖ Consistent reduction in specific water consumption figures
 - ❖ Water saving projects implemented and savings achieved
 - ❖ Involvement of employees, Team work in water, Monitoring & Reporting systems, Environmental projects
 - ❖ Reduction in waste water discharge and efforts towards achieving zero discharge
 - ❖ Other water conservation measures including monitoring per capita water consumption etc
- Short-listed companies will be invited to make presentation at the competition in November **2014**.

Benefits

- Sharing of information by excellent water efficient companies
- Facilitate adoption of similar projects at your units, leading to enormous saving
- Infuse a sense of competition to motivate other plants to achieve excellence

NOTE:

Excellence award winners for 5 consecutive years will get listed in Hall of Fame

Last date for submission of filled-in questionnaire: 15.07.2014

QUESTIONNAIRE

A. Company Details:

Company Name:		Type of process:	
Address:		Plant Water Demand (Max)	m ³
City:		Production capacity of the plant:	
Pin code:		Contact Person:	
Phone:			
Fax:		Designation:	
Email:		Type of company:	
Water Cost as a % of Manufacturing cost		Annual Turn over of the company (2013 – 14)*:	

B. Water Consumption details:

Year	Annual Water consumption				Production in tons or any other unit of production	Specific Water Consumption	
	Quantity (m ³)		Source of Water			m ³ /MT	
(April - March)	Industrial	Drinking/Domestic use	Industrial	Domestic			
2009 – 10							
2010 – 11							
2011 – 2012							
2012 – 2013							
2013 – 2014							

NOTE:

1. Do not include water supply to nearby community and colony in Domestic
2. Specific water consumption should be calculated based on water consumption inside plant only.
3. If Specific Water Consumption figures are not applicable please specify with reasons

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NOTE FOR B (i)

- I. Source of water: Municipal supply, River water, Bore well water, Sea water, others.
- II. Industrial water consumption: Total water used in Process +Utility (boiler, cooling towers etc)
- III. Domestic water consumption (both within plant + domestic water consumption in Colony or nearby community)
4. The specific water consumption should include only industrial water consumption (Process, Utilities and Cooling inside the plant etc).
5. The specific water consumption units for select sectors are given below:

Cement	m ³ /Ton of Cement	Fertilizer	m ³ / Ton of Product
Automobile	m ³ / Vehicle (car, truck, bike etc)	Foundry	m ³ /MT of Product
Refinery	m ³ //Ton of product	Sugar	m ³ /Ton of Cane crushed
Paper	m ³ / MT of FNP	Paper	m ³ / MT of FNP
Caustic chlorine	m ³ / Ton of product	Power Plant	m ³ /MWh
Aluminium	m ³ / Ton	Pharmaceuticals	m ³ /Ton of Eq Product
Copper	m ³ / Ton of Product	Glass	m ³ /Ton of Product
Textile	m ³ / Ton of product	Engineering	m ³ /Ton of Eq Product
Ceramic	m ³ / Ton of Product	Buildings	m ³ /square feet

* Total production of product

B. (ii) Comparison with National and International Benchmarks on Water Use and Waste Water discharge:

1. Please mention the International and National Benchmarks for units similar to yours (if applicable).			
	National Benchmark ***	International Benchmark ***	CPCB Benchmark ***
Specific Water Consumption (m³/Ton)			
Waste Water Discharge (m³/Ton)			
Use this space to support your choice of benchmark			
*** Source of information / name of reference unit for Benchmarking also may be mentioned. Please attach a copy of reference document.			
2. Please describe (a) Ultimate Target/Objective, (b) Strategy to achieve and sustain World Benchmark.			

NOTE:

1. Include only fresh water consumption (drinking, washing, toilets, cooking, watering plants, cleaning etc). Do not include recycled water quantity.

C. Per capita water consumption:

Year	Domestic water consumption within plant			Colony water consumption		
	Consumption (m ³)	Average employees per day	Per capita consumption ltr/person/day	Consumption (m ³)	No of persons	Per capita consumption ltr/person/day
2009-10						
2010-11						
2011-12						
2012-13						
2013-14						

D (i). Wastewater generation and Discharge details (Industrial/Domestic)

Year (April-March)	Area	Quantity generated (m ³)	Quantity recycled		Quantity discharged		Waste Water Discharge/ Ton of Product
			(m ³)	%	(m ³)	%	
2009 – 2010	Industrial						
	Domestic						
2010 – 2011	Industrial						
	Domestic						
2011 – 2012	Industrial						
	Domestic						
2012 – 2013	Industrial						
	Domestic						
2013 – 2014	Industrial						
	Domestic						

Note:

1. Please attach any letter/ certification of commendation of civic/appropriate authority if any.
2. If Specific Waste Water discharge figures are not applicable please specify with reasons

D (ii) Is the industrial effluent of the unit treated before the final discharge?

D (iii) If yes, describe briefly the method of treatment of the Industrial effluent in your unit.

E. List of Water Conservation Projects implemented during April 2009 – March 2014

SI No	Title of Water Saving project implemented	Year of Implementation	Annual Water Savings		Invest. Made	Payback Period (Months)	Planned date of completion	Actual date of completion
			m3	Rs. Lakhs	Rs Lakhs			

F. Details about one innovative project implemented for saving water in the last year 2013-2014 (Please avoid projects mentioned in the questionnaire for the Awards held earlier)

Please also provide the following information

Cost benefit analysis for the innovative project implemented

Parameters	Cost incurred	Tangible Benefits	Intangible Benefits
Water			
Energy			
Others			

(Attach word document/pictures separately if required)

Please describe a typical implementation methodology adopted by industry & type of involvement of workmen, supervisors, middle management and top management.

G. Extent of Team work in Water Conservation

Note: Please attach all associated photographs/minutes of the meeting if any

H. Monitoring & Reporting Systems

Frequency of review of water consumption and water conservation projects: Daily / Weekly / Monthly etc.

Please also describe the monitoring & reporting system followed at your unit
Request you to attach a sample reporting format

Who Conducts Review meeting?

(Attach a copy of sample/specimen including agenda)

I. List of major environmental improvements made during April 2009– March 2014

J. List of activities carried out for awareness on water conservation in Plant, Residential Colony, Local Community etc. during 2013 – 2014

K. List of Certifications (ISO 9000/14000, OHSAS 18000, SA 8000 etc), and other Awards won in the areas of Environment, Quality, Productivity and Safety during the year 2013 – 2014

L. Cost of Water as applicable to your industry

Description	Source of Water*	Cost of Water (Rs/m ³)
Raw Water		
Final treated water		

NOTE:

1. * Applicable for raw water – Bore well, River water, Municipal water, sea water, others
2. Include water cess paid to respective State Pollution Control Board.

What is the vision towards Zero Liquid Discharge? Describe, if any.

Has your unit undertaken water audit regularly? When was this done last time?

Does your company voluntarily disclose the outcomes of a water audit in its sustainability report or any other report? Please state.

M. Vendor / associate involvement in conserving water:

(Efforts taken by companies in improving water efficiency of their vendors / suppliers, customers & other stake holders like awareness creation programs, internal competitions/ awards etc)

Your listing of these inputs will be essential to prove the replication of best practices carried out.

O. Briefly mention the anti pollution drives implemented by your unit for protecting the ground/surface water contamination (Please attach any letter/ certification of commendation of civic/appropriate authority if any)

Final treated water	Amount (m ³ /day)	Disposal practices of treated effluent

DECLARATION

To the best of my knowledge, the information furnished is correct			
Date:		Signature:	
		Name:	
		Designation:	
		Company seal:	
<p>Please note</p> <ul style="list-style-type: none">• In case, you need additional copies for your units, please send the soft questionnaire to them or else download the soft questionnaire from www.greenbusinesscentre.com• Last date for the submission of filled-in questionnaire: 15 July 2014.• The questionnaire should be completed in all respect and sent to waterawards@cii.in / anuradha.pathania@cii.in• Incomplete questionnaires will not be considered for competition / awards			