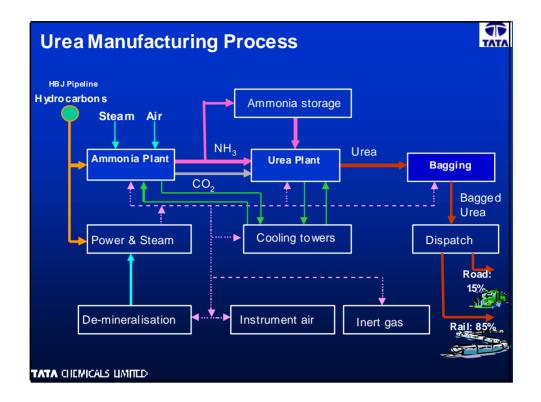




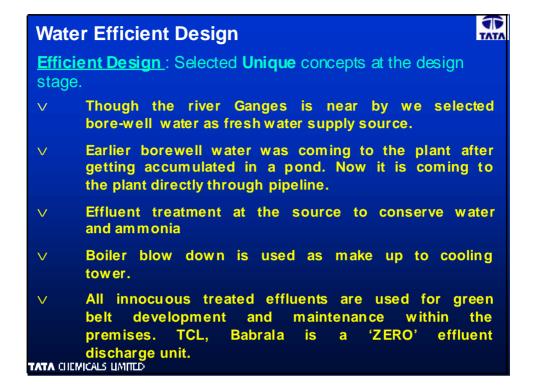
Tata Chemicals∨ Tata Chemicals Established in 1939 at Mithapur, Gujarat∨ Urea complex at Babrala commissioned in Dec, 1994











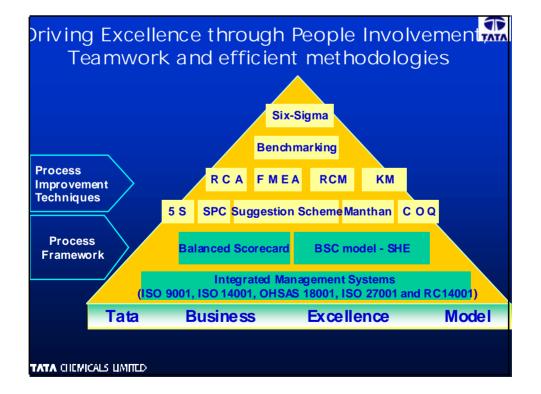
Water Efficient O	peration
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Efficient Operation : Our strategy is continuous monitoring and optimization of operation

TATA

- Continuous vigilance and monitoring at the source (i.e at the tube well discharge)
- Maximum possible recycling of process/steam condensate
- Cooling water treatment optimization to operate with high cycle of concentration.
- Boiler water treatment optimization to minimize blow down quantity.
- Controlled use and monitoring at all consumption points





MONITORING......Measure, Analyze & Improve

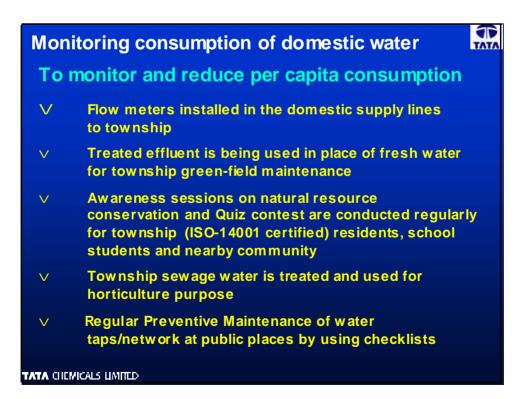
Measuring

Flow meters are provided at the discharge of tube wells to measure at source

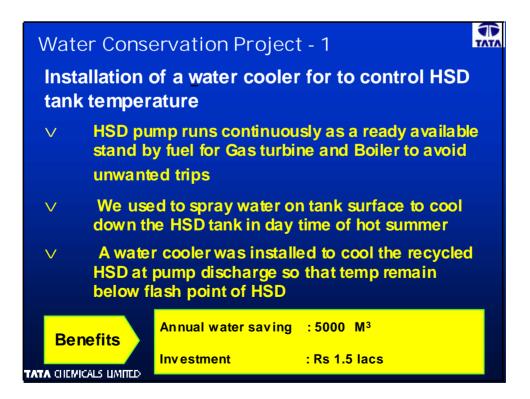
Major consumption points have separate flow meters Sum of production and sum of consumptions are balanced on daily basis. Variation (<2.0 %) ensures accuracy of measurement.

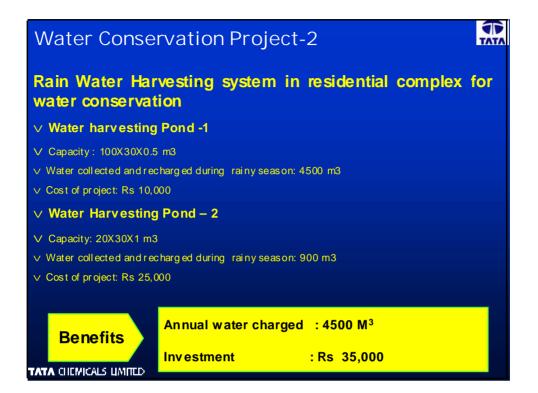
Daily Reporting Daily water consumption information is sent to Senior Management Daily Environment performance is reviewed by senior management

Every year reduction of specific water consumption target is taken and the same is mentioned in MD's Green Goal sheet Environment incident Reporting System

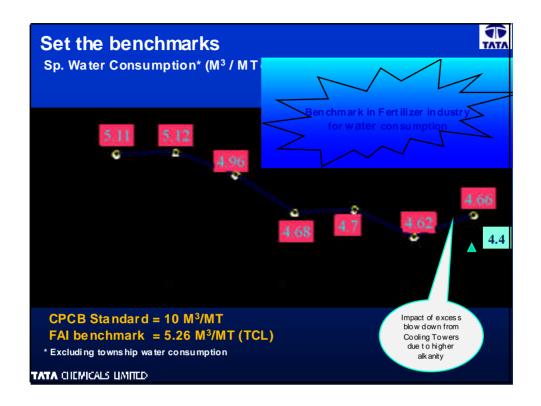


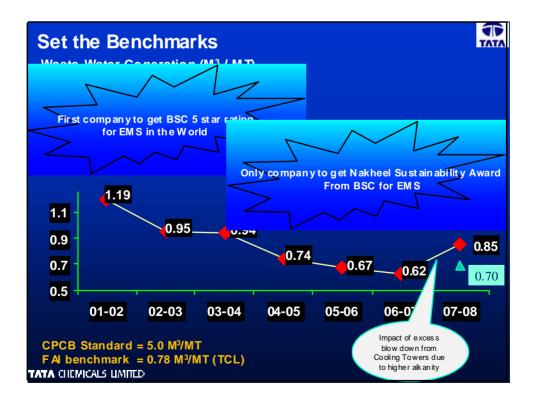
ir Io	Year of Imple men tati on	Description	nvestment RsLacs)	
1	2004-05	Jse of partially de-cationed water as am monia cooling tower make-up annual water saving: 284,000 m3)		
2	2004-05	To provide tapping points (5-6) at cooling tower Blow down header for norticulture purpose.	0.35	
3	2004-05	2" bypass line provided with I/V from ring header to fountain water pump discharge line	0.00	
4	2005-06	Recycling of DM plant analyse r effluents to FWST (annual water saving: 10000 m3)	0.85	
5	2005-06	To provide flow metres in tubewells at drinking water o/I line going to ownship	3.00	
6	2005-06	To provide water cooler in recycle line of HSD pump to control HSD emp in the day tank and thus eliminating use of water spray on the ank during summer (annual water saving: 5000 m3)	1.00	
7	2006-07	Recyling of CPS GP steam condensate to DMPlant (Annual wate r saving: 25000 m3)	4.00	
8	2006-07	Recycling of inter-stage condensate from compressors to cooling water etum he ader (annual water saving: 25000 m3)	4.50	
9	2006-07	nstallation of additional pH meter at the inlet lines to Guard pond-1	2.00	
10	2006-07	To provide horticulture water tapping near Fire and safet y lawn and GGP area	1.00	
11	2006-07	To prime the floor washing pumps using effluent wate r and eliminate he consumption of utility water.	0.30	
12	2007-08	To provide tappings at the 55-P-05A/B/C reciculation line for irrigation near NBS security guard cabin	0.25	

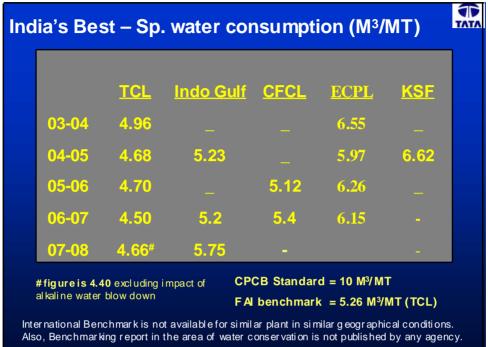




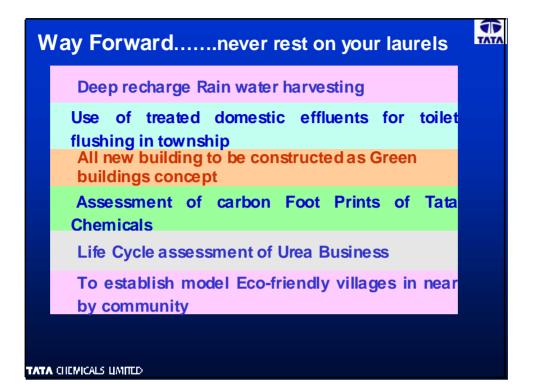








a's Best – Sp. Effluent generation (M³/MT)						
TCL	<u>Indo Gulf</u>	<u>CFCL</u>	<u>KSF</u>			
0.94						
0.74	_		0.82			
0.67	0.80					
0.62	0.71	1.0				
0.85#	0.73	-	—			
		CPCB Standard = 5.0 M³/MT FAI benchmark = 0.78 M³/MT (TCL)				
	0.94 0.74 0.67 0.62 0.85 [#]	0.94 0.74 0.67 0.80 0.62 0.71 0.85 [#] 0.73 excluding impact of CPCB State	0.94 _ 0.74 0.67 0.80 0.62 0.71 1.0 0.85 [#] 0.73 excluding impact of widown CPCB Standard = 5.0 M			





AWARDS & ACCOLADES

 $\vee~$ 5 Star rating for Environmental Sustainability from BSC, UK : 2004, 2005, 2006

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 \vee Sword of Honour from British safety council consecutively four times in a row. :2007-08

∨ ICMA, SHE Excellence Award : 2005

∨ Aditya Birla best Responsible Care Award : 2004

∨ Greentech Environment Excellence Platinum Award for year : 2003-04, 2004-05.

 $\vee~$ Golden Peacock Environment Management Award for the year : 2005

 \vee Award for "Excellence in Natural Gas Conservation" First Prize in Fertiliser Sector, instituted by GALL : 2004, 2005.

TATA CHEMICALS LIMITED

AWARDS & ACCOLADES

 \vee Environment protection award from Fertiliser Association of India : 2005-06

 \vee Aditya Birla award for the best Responsible Care company" and "Corporate Social Responsibility award" : 2005-06, 2007-08

 $\vee\,$ Aditya Birla award for "Corporate Social Responsibility" for the year : 2005-06

 \vee The Sarva Shreshtha Suraksha Puraskar (Golden Trophy and Certificate) from National Safety Council of India (NSCI) for year 2006-07.

 $\vee\,$ The best Technical Innovation Award (2006-07) from Fertilizer Association of India (FAI)

✓ Nakheel Sustaina bility award (Special Award) by British safety council in year 2007-08



