



**“ National Award for
Excellence in Water Management 2008 “
(Confederation of Indian Industry)**



Enriching Lives



Presentation by ,

**KIRLOSKAR BROTHERS LIMITED
Kirloskarvadi Plant**



Water is Life , We give life to water



Enriching Lives

MISSION

Kirloskar Brothers Limited shall be known globally as a reliable, innovative and cost effective solution provider in hydraulic machines & systems and in water business.

VISION

Kirloskar Brothers Limited shall be amongst the first five pump companies in the world by the year 2015 and become the preferred choice of customers as well as employees.

VALUES

- Developing and working with mutual trust.
- ? Building and nurturing teamwork.
- ? Assessing and enhancing employee satisfaction level.
- ? Giving the best to customer and giving value for the money.
- ? Enhancing relation with stakeholders.
- ? Maintaining fairness in dealing with customers and suppliers.





Products – Pumps for Various Applications



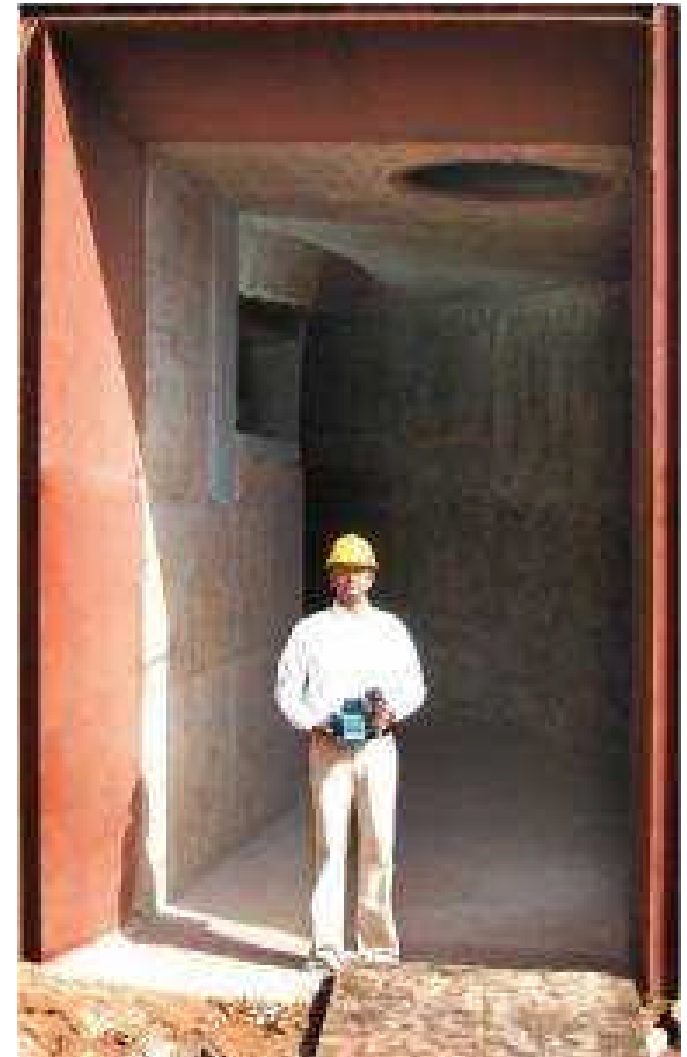
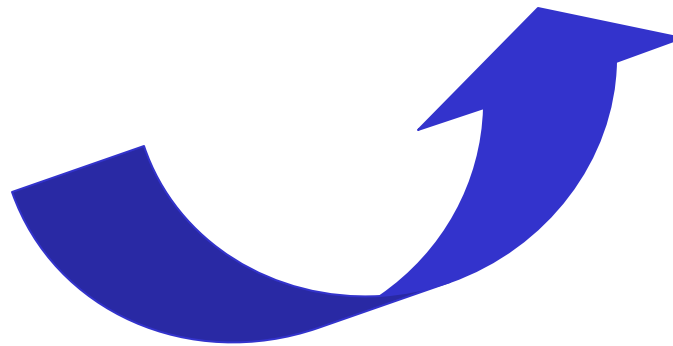
Enriching Lives

Pumps range from $1/10$ kW to 12,000 kW

A man standing at the discharge pipe of a Concrete Volute Pump, KBL's biggest pump (126000 m³/hr), holding KBL's smallest pump (0.28 m³/hr.)



Monobloc Domestic Pumps
Capacity up to 0.28 m³/hr.



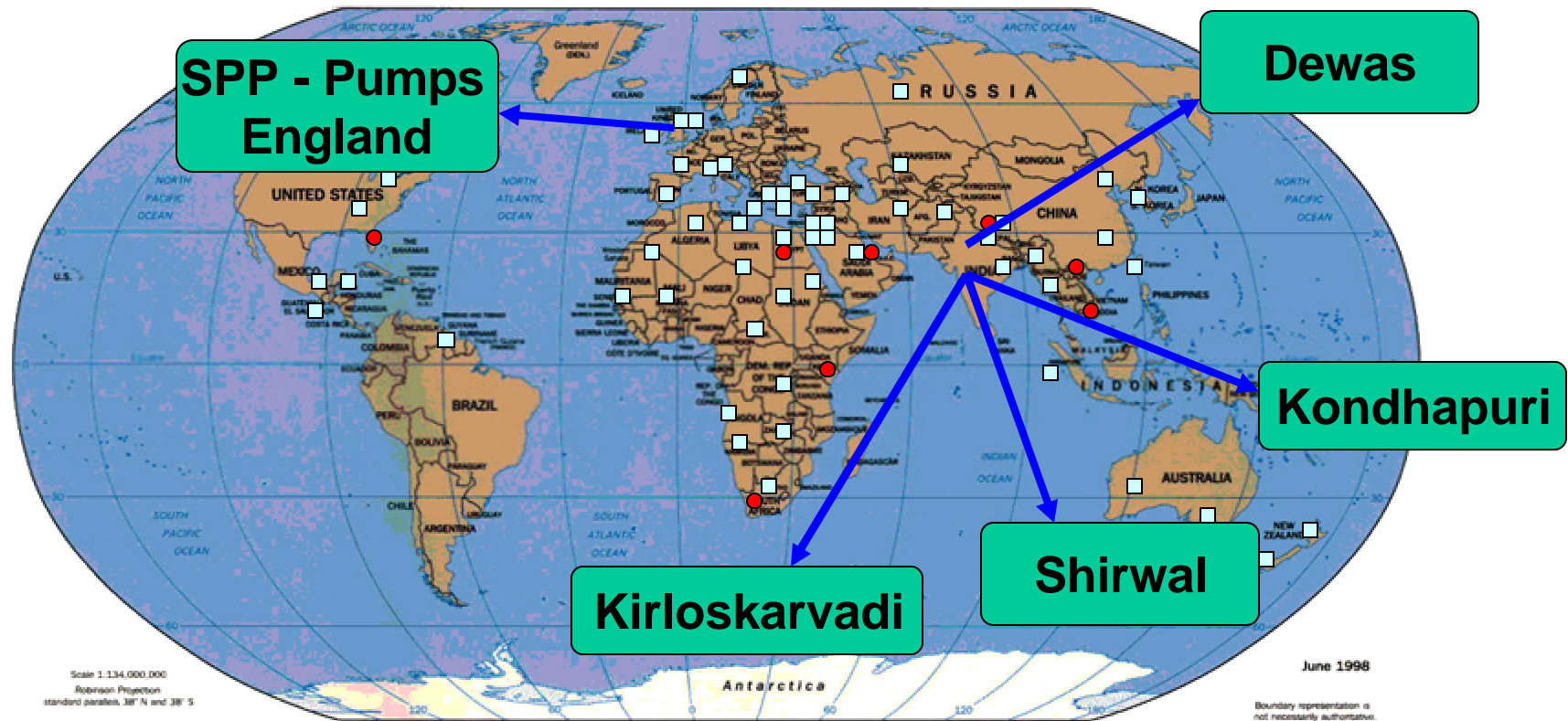


Manufacturing Plants



Enriching Lives

Global Presence Over 70 Countries Worldwide



□ Overseas Customers

● Overseas Offices



Integrated Plant (Processes)



Enriching Lives

- ✍ Research and Engineering
- ✍ System Engineering
- ✍ Procurement
- ✍ Manufacturing – Pattern Shop, Foundries , Machining
- ✍ Testing - Asia's biggest Pump Testing Lab
- ✍ Quality Assurance
- ✍ Project management
- ✍ Erection and Commissioning
- ✍ Operation and Maintenance
- ✍ After Sales & Product Support



Need for Water Saving



Enriching Lives

Scarcity



Global Warming

- Impact of water cost on Product cost
- Stiff competition in Market

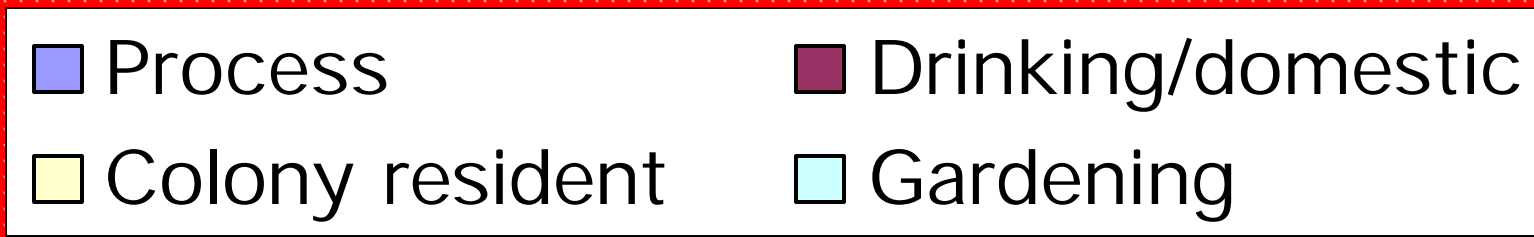
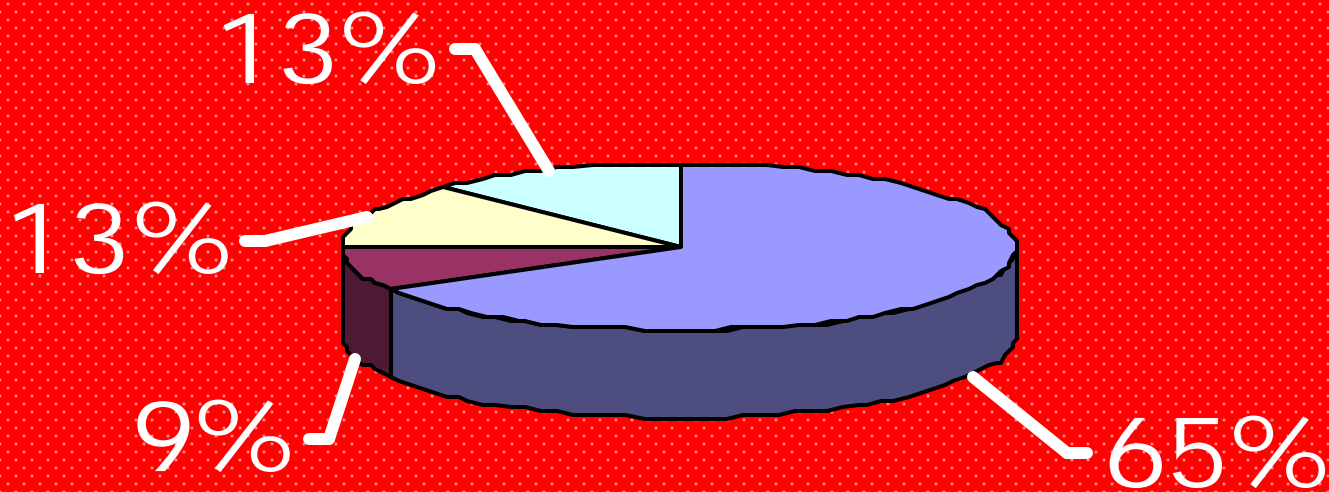


Water Consumption Distribution



Enriching Lives

Water consumption

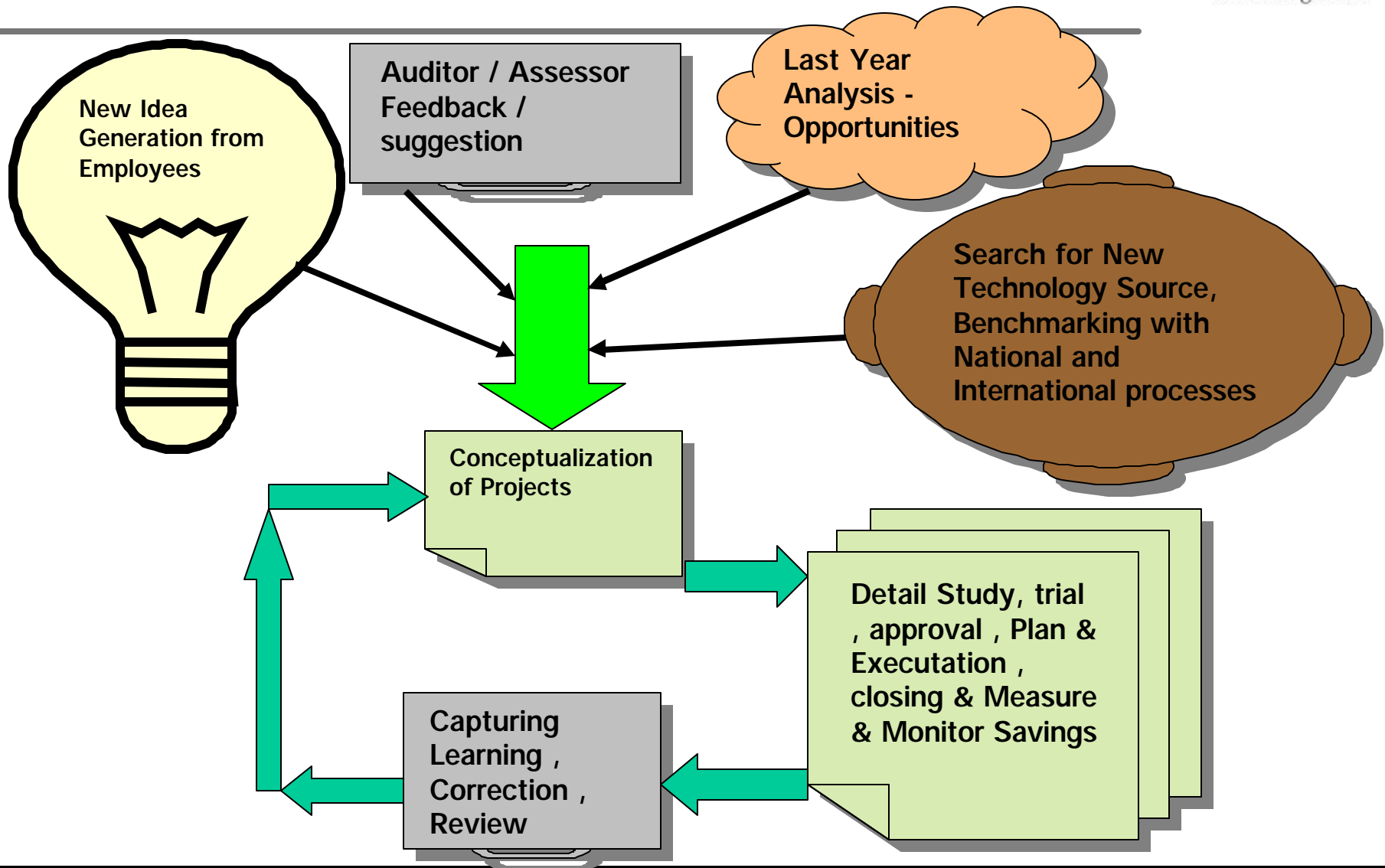




Water Saving - Approach



Enriching Lives

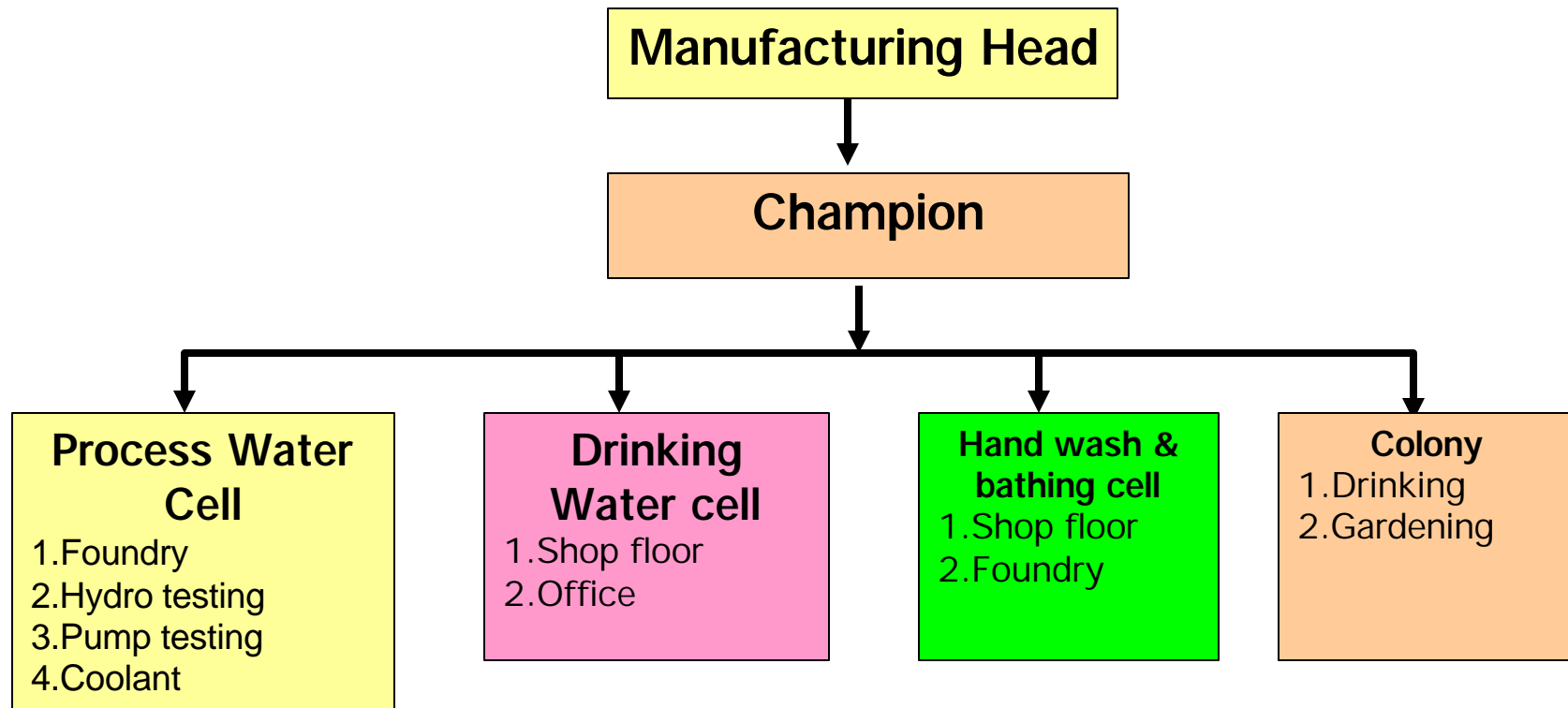




Water Saving - Team



Enriching Lives





Certification



Enriching Lives

-
- **ISO 9001 :2000**
 - **ISO 14001:2004**
 - **ISO 18001 :2007 (Audit Completed , Certificate awaited)**



Water Saving - Awareness



Enriching Lives

Daily Sun Rise Meeting



Colony Meeting



Contractor Training



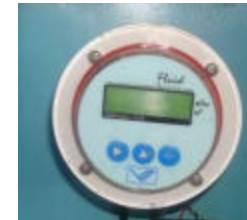


Water Saving – Monitoring & Reporting



Enriching Lives

- Daily reading of incoming water meter
- Daily reading of water consumption for Factory
- Daily reading of water consumption for Colony
- Monthly reading of process water – 18 Meters



**Monthly Review of Water consumption and
Water Saving Projects**



Enriching Lives



Water Saving Projects

11/25/2008

This is a proprietary document of Kirloskar Brothers Ltd.

13



1.Sensors for Hand Wash & Urinals



Enriching Lives



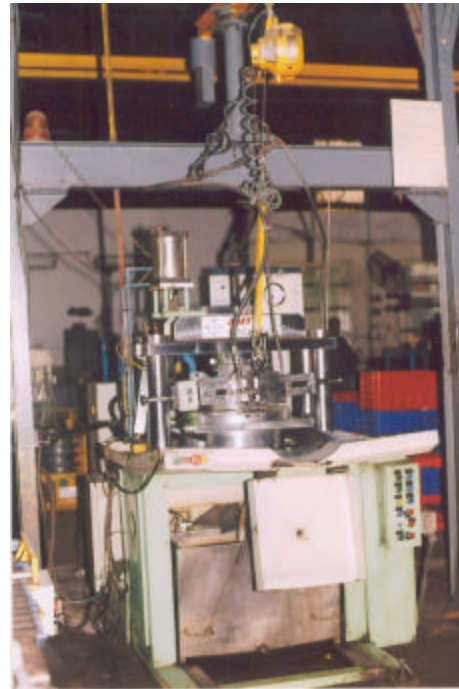
REPLACED – 20 NOS



2. Close Loop Hydro Testing



Enriching Lives



SAVINGS – 6 Lac Litres /Month



3.Drip for Garden



Enriching Lives



800 Sq. M



4.Sprinklers for Lawn



Enriching Lives



Area – 27000 Sq.M



5. Push type tap



Enriching Lives



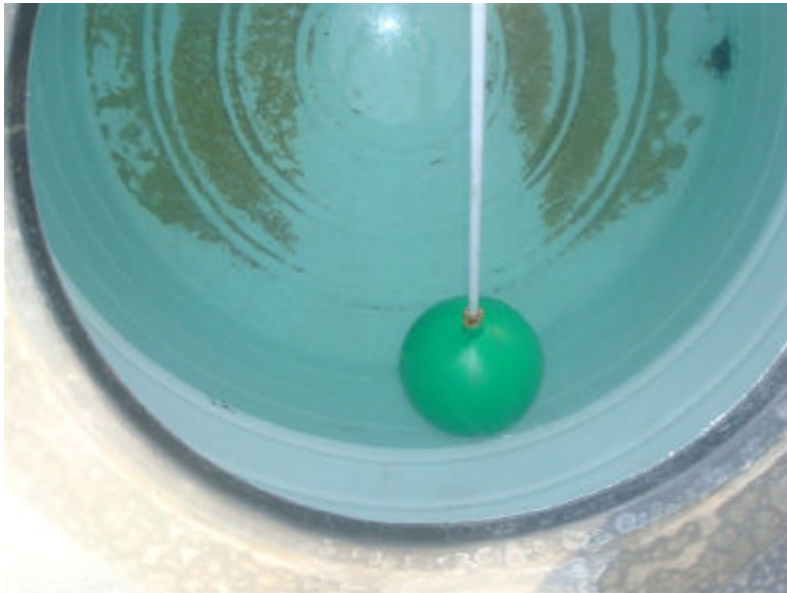
Total tap- 200



6.Float Valves for old Overhead tank



Enriching Lives



Adopted – 225 Nos



7. Use of percolated rain water for process



Enriching Lives

Saving 4 Lac Litre / Year



8. Use of A.C. condensed water



Enriching Lives

Saving 10,000 Litre / Year



9. Replacement of water cooled compressor by air cooled



Enriching Lives

Saving - 18 Lac Litre / Year



Waste Water Treatment



Enriching Lives



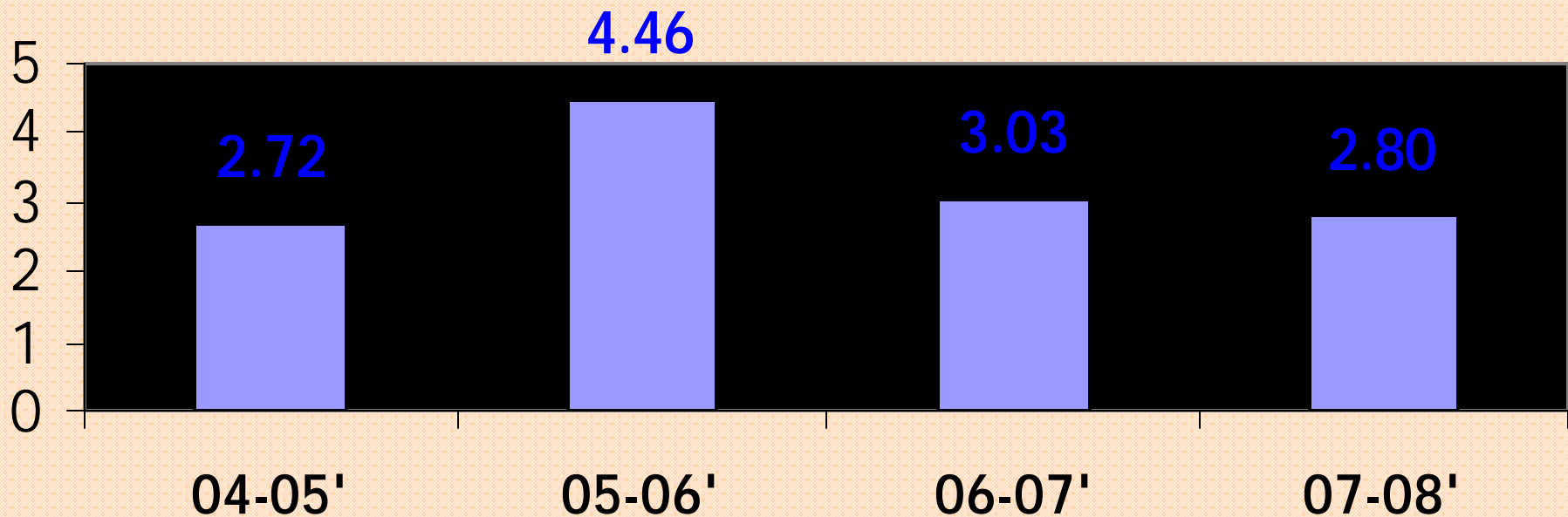


Waste Water



Enriching Lives

Waste water Discharge Cum / Pump (used for Gardening)



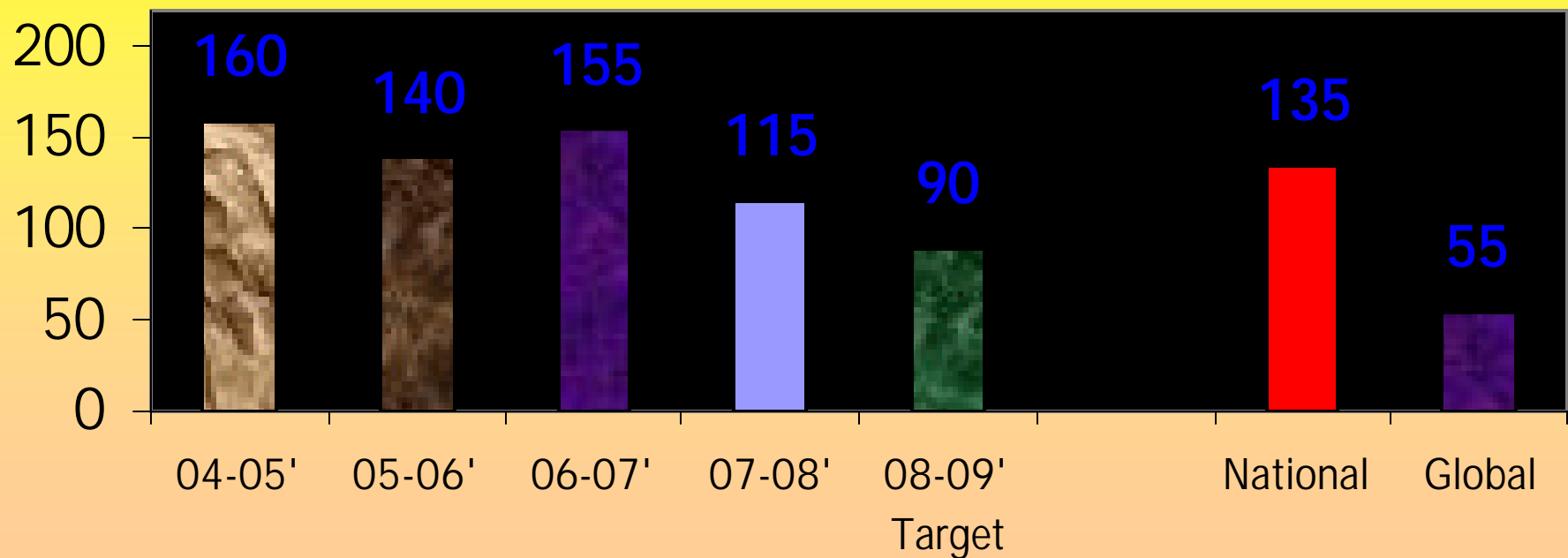


Per Capita Consumption



Enriching Lives

Colony per capita (Litres/Day)



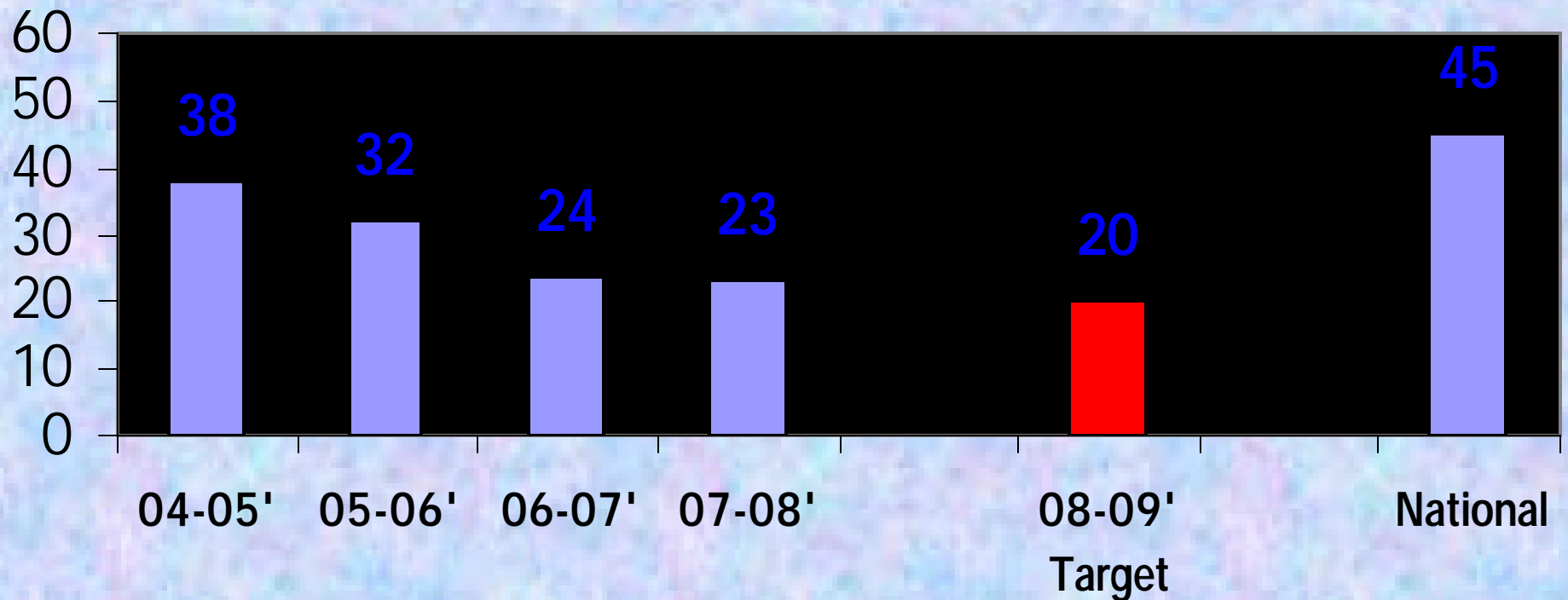


Per Capita Consumption



Enriching Lives

Industry per capita (Litres/day)



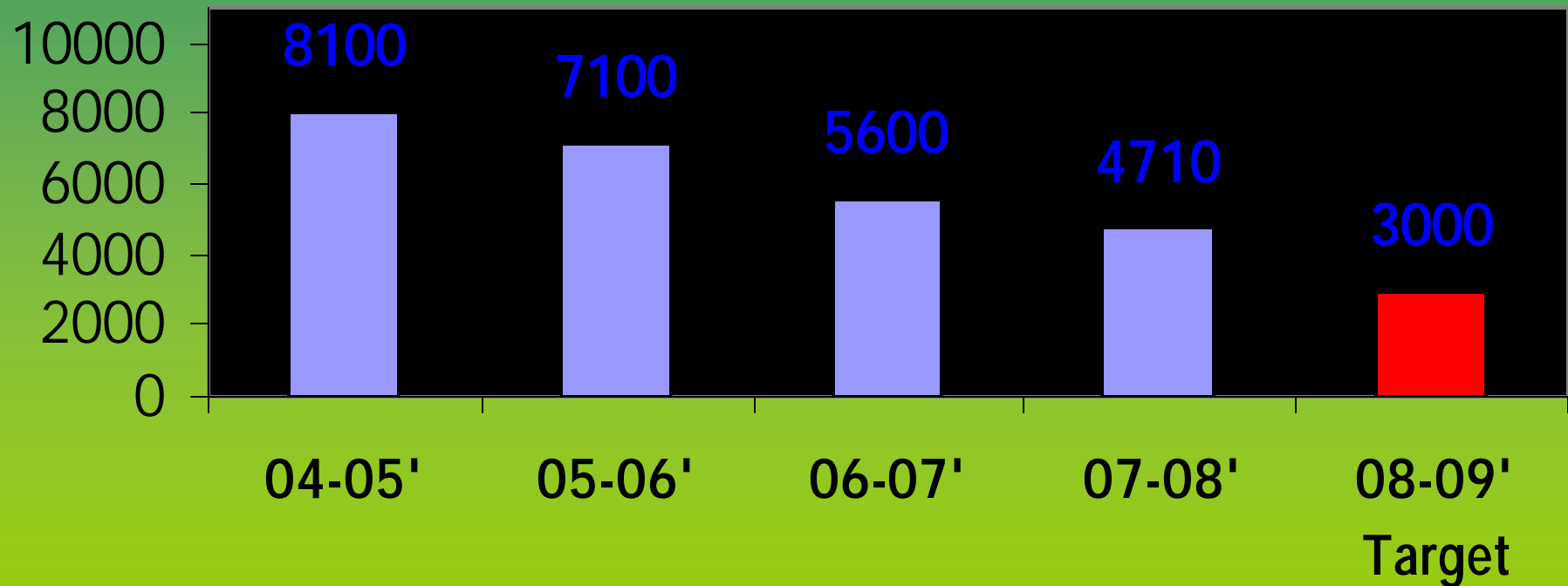


Specific Water Consumption



Enriching Lives

Process Water per Pump (Litres)

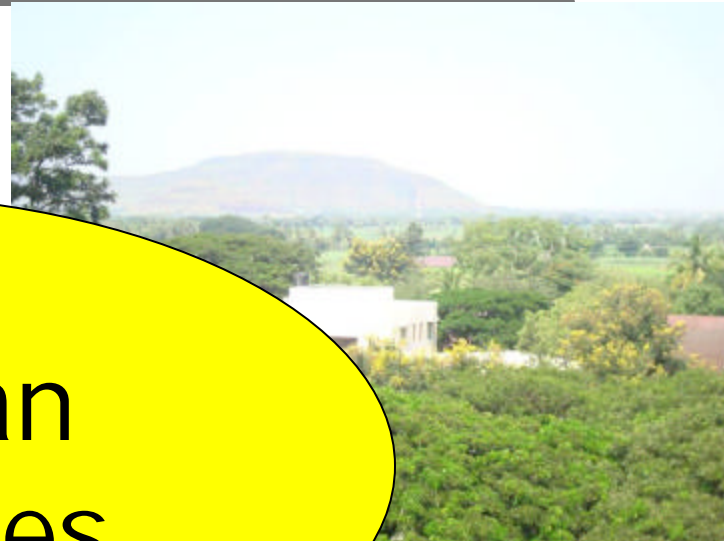




Environment



Enriching Lives



More than
3000 Trees





Water Saving Project 08-09



Enriching Lives

- **100% Rain water harvesting**
- **Replacement of old pipeline by new APVC piping**
- **Adoption of close loop tanks for pump testing**
- **Cooling tower for Cupola wet scrubber water**
- **Separate Piping for Factory gardening & toilet flushing**



Enriching Lives

THANK YOU