

## INDIAN RAYON INDUSTRIES LTD

A one day seminar in Indrayon School, Veraval was conducted on 23<sup>rd</sup> July 2005 regarding awareness of Energy Saving and procedure of saving that how adopt to difference energy saving method in daily use. Around 120 students of 10<sup>th</sup> Std attended the programme and took advantage of the same.









## **GLAXOSMITHKLINE PHARMACEUTICALS,LTD**

A workshop on Energy Auditing and Monitoring was organised by GlaxoSmithKline Pharmaceuticals Ltd., Nashik on 20<sup>th</sup> July 2005. Following were the contents of the said workshop.

### ❖ Classification of Energy / Resources in Use at the Site

#### ❑ Electrical Energy

- Power received from external agency
- In house generation through D.G. Sets.

#### ❑ Thermal Energy

- Steam Generated through Boilers run with F.O. as fuel.
- L.P.G. Used for heating application
- Solar Water heating system for canteen application.

#### ❑ Raw Water

- Water supplied by MIDC.
- Water from Bore wells

#### ❑ What is Energy Auditing & Monitoring ?

- Energy Auditing is a systematic approach towards knowing & recording the facts towards :-

- Actual Energy Consumptions vs. standard expected consumption of all the equipment at site.
- Evaluating the energy efficiency of energy intensive equipment.
- Exploring & proposing ways of doing things in a better way.

- Energy Monitoring :-

- Recording of consumption pattern of various forms of energy.
- Evaluating the consumption pattern trend.
- Recording & trending of critical billing parameters of energy supplied & charged by external agency.

#### ❑ Why there is a need for Energy Auditing & Monitoring ?

- There is a say "We believe in God, rest data brings"
- To know where we are - Through Base lining.
- To identify & eliminate the wastes in energy supply & distribution system.
- To evaluate the energy efficiency of energy intensive equipment in use at site.
- To explore the ways of doing things in a better ways.
- To Target where we want to be in a planned manner in near future.
- To cope up with continuous challenging business needs of reducing op-ex.
- On utilities to be in the business.

- ❑ How to go about Energy Auditing & Monitoring at site ?
- Energy Auditing :-
  - ✓ Identifying the expertise required for energy auditing of systems at site.
  - ✓ To start with Exploring the possibility of getting the systems energy audited internally.
  - ✓ Identify the limitation with respect to resources required for energy auditing.
  - ✓ Arrange the minimum required resources.
  - ✓ Plan & execute the internal energy auditing at site.
  - ✓ Record & summarize the findings.
  - ✓ Evaluate & implement the feasible proposals.
  - ✓ Explore the need for energy audit by external accredited energy auditing agency.
  - ✓ Plan & execute the energy auditing by external agency at site.
  - ✓ Evaluate & implement the feasible proposals.
- Energy Monitoring :-
  - ✓ Identify the critical energy monitoring parameters & methods of monitoring of these parameters.
  - ✓ Segregate & identify the energy supply & distribution network with respect to various products manufactured at site.
  - ✓ Identify the point of monitoring of various parameters.
  - ✓ Design, procure & install energy monitoring devices to support trending.
  - ✓ Trending of energy consumption, specific energy consumption on weekly basis.
  - ✓ Reporting the trend as against expected target on monthly basis at Site Management Committee Meeting to ensure effective utilization of resources at site.
  - ✓ Record the Specific Energy Consumption as one of the KPI'S of site on monthly basis.



