

## Unit profile

**INDIAN ACRYLICS LIMITED** flagship company of Steel Strips Group is an acknowledged leader of acrylics fiber industry. It is the single largest producer acrylic fiber in India having the plant situated at Harkishanpura, Bhawanigarh in Sangrur district of Punjab. Moreover, IAL is also the largest exporter of the Acrylic fiber/Tow with export to countries like Iran, China, Hongkong, Syria, Taiwan and Bangladesh.

It was established in 1986 in joint venture with Punjab state industrial development corporation/s E.I. Dupont De Neumors, USA was selected as technology suppliers for producing Acrylic fiber @ 12,500 TPA using Dry Spun Technology. Despite an untoward incident of killing of engineers in March 1992, it was made possible to commence production in January 1993. development of an enviable reputation in terms of operating efficiency made it possible to enhance production capacity up to 45000 TPA. Total fixed capital investment of the plant is about 300 crores. The unit became recipient of ISO 9001: 2000 in years 2001-02

The products ACRYLIC FIBRE, ACRYLIC TOW AND ACRYLIC TOPS (BOTH GREY AND DYED), from an economic replacement of wool and provides affordable winter clothing to less affluent section of the society.

A team of highly motivated and dedicated work force has been able to achieve success in commercializing products like MICRO-ENIER fibers, semi – dull fiber and acrylic dry spun toe for the first time in India. These products are well accepted not only in India but also internationally.

## Energy consumption

Total consumption for the year 2006-07 is 2,21,080 Mkal which includes 45350 Mkal (20.5%) of electrical energy and 175730Mkal (79.5%) of thermal energy. All the efforts are during the recent past years has been on reducing the use of non-renewable fossil fuels. In an attempt to save the nation from a rising burden of importing fossils fuel and save foreign exchange for its purchase from international market, the company had done following

- Reduction in fossil fuel usage (HSD)
- Increase in use of renewable fuel for steam generation for process as well as power
- Increase in own power generation

## **Energy conservation commitment, policy and set up**

Since the commissioning of the plant in 1993, IAL engineers are committed to strive and make it most energy sufficient plant of its type by inputting their continuous and dedicated efforts. Awareness sessions are conducted with the fresher to imbibe the importance of energy conservation right from the beginning.

The approach consists of identifying potential areas for energy saving, exploring various possibility of problem solving; their analytical and financial evaluation and implementing have finalized solution. Later, it is ensured that monitoring of achieved benefits is done regularly.

In pursuit the excellence in energy saving, IAL has an energy conservation cell constituted by a team of experienced executives drawn from different disciplines and working areas. We feel proud to state that our company has already fulfill the statutory requirement of designating energy manager under the energy conservation Act,2001.

### Energy conservation plan and targets

Provision of agro waste fuel based 8 MW turbines for captive use as well as power sale: now days this project is under commissioning stage

- Provision to install electrostatic precipitator on all the boilers
- Operation of 6.5 MW turbines by increasing steam pressure from existing 19.0 kg/cm<sup>2</sup> to 65 kg/cm<sup>2</sup>.

### Environment and safety

Since the inception of the plant, the company places a high priority on health and safety of its employs had given due regards to the conservation of the environment. it has declared a well defined policy on heath and safety that has also been displayed at different locations within the plant.

A fixed investment of about 2.2 crores of liquid effluent treatment plant about 1.0 crore for provision of air pollution control and monitoring equipments, a recurring cost of about 50 lac per annum for maintaining these equipments /plants and installation of sand by bag filters of each rice husk fired boiler can very well indicate our conscious and strenuous efforts to clean environment an pollution abatement. Further, we would like to highlight now the plant is in the process of installing an ESP system (instead of bag filters) on all boilers. Complete plant safety audits and fire fighting system audits are being done regularly. Hot / cold work permits, on site/off site emergency plans, safety trainings, accident investigation, analysis etc.form a part of plant culture.