

Forbes Gokak Ltd, (Textile Division), Gokak Falls

(i) Unit profile:

Gokak mills is a leading spinning mill in India and one of the largest exporters of yarns, was established in the year 1885, is situated at Gokak falls in Belgaum district of Karnataka state. It is a sub unit of Forbes Gokak limited and comes under textile division and contributes for over 80% of turn over of the company and around 63% of the employment.

Although Gokak is a unit of Forbes Gokak limited for all practical purpose, it is an independent unit. We refer to corporate office for guidance in policy matters, Gokak is a manufacturer of textile yarns, canvas, belting ducts and terry towels, which has no relation to the activities of other division in the company.

A Gokak mill is an ISO 9002 certified company since July 1994. One of our export oriented unit has been awarded with environmental management system certification (ISO 14001) in September 2000. It has always stood as a leader in developing organization, culture and quality system. It has well defined machine, vision, goals guiding values, business policy etc. Hence Gokak could always stand as a leading exporter from India.

Gokak has specialized itself in coarse and medium cotton and PC blended yarn, double and multifold yarns and canvas fabrics. In the dyed yarns Gokak is in picture for last 10 years and now has earned a name as quality dyers.

(ii) Energy Consumption.

Mills total power consumption is around 791 lakhs kwh per year including all operations of our unit like manufacturing of grey yarn, multifold yarn and dyed yarn. Though the mills have taken several measures to conserve energy, the power consumption figures have gone up due to modernization process and increased connected load. Also increasing trend in energy savings as % age of annual sales turn over.

Description	Unit	2002-03	2003-04	2004-05
Annual production	MT	25418	27240	29116
Energy consumption	Lac. kwh	621.04	648.74	791.38
Annual sales turnover	Rs.Lakhs	23608	25418	27240
Energy savings	Rs. Lakhs	55.17	66.60	28.48
Savings as % age of annual turnover	%	0.14	0.22	0.10

(iii) Energy conservation policy and set up

Energy conservation policy:

“ We commit to save energy by means of systematic and scientific approach on identifying real opportunities, which are economically viable. Ultimate objective is to reduce cost/unit of production and also to save fuel, water and compressed air.”

Management and staff are highly energy conscious, efforts are being made on a continuous basis for energy conservation. Energy audits also been carried out by external consultants and recommendations have been implemented.

The unit is having a set of engineers headed by General Manager (Engineering) supported by energy conservation engineer with necessary equipments for testing and measuring. Motor

diagnostic laboratory is installed for testing the efficiency of the motors. Defective and less efficient old motors will be discarded after testing.

This team is conducting energy conservation meeting every 15 days to generate the ideas from individuals and to execute the same. The points discussed in the meeting will be evaluated by G.M (Engg.) and minutes of meeting will be sent to Director Operations Textiles(DOT) for any remarks. For implementing the energy saving measures a separate sanction note is prepared along with worked out cost and payback period will be sent to DOT for approval. After getting approved from director the team will chalk out the programme for implementation.

Energy, compressed air audit is done by energy conservation engineer regularly and any abnormalities found in the machines were informed to concern departmental heads to set right the machines.

Installed Energy meters for individual departments/sections. All the mills production heads are collecting and tabulating the daily power consumed.

(iv) Energy conservation achievements.

During last three years the mills have implemented 26 major energy conservation measures and achieved the savings of 35 lakhs kwh and Rs. 150.25 lakhs by energy savings with the investment of Rs.99.91 lakhs..

Following are the innovative approach of our mills in reducing the power and the cost during 2004-2005.

- 1) Installed Automatic Power Factor Cotrollers at load points
- 2) Humidification control
- 3) Installed energy meters for above 20 HP motors
- 4) Switched "off" distribution transformers during idle
- 5) Dyeing effluent pump 15 HP replaced with 12.5 HP
- 6) Installed 2500 KVA low loss distribution transformer

(v) Energy conservation plan and targets.

Following are the major projects considered in future for 2005-2006

Sl	Energy conservation measures planned	Savings in Lakhs kwh/Yr.	Savings in Rs. Lakhs	Investment in Lakhs
1	Installing inverters for winding machines	9.98	42.92	74.00
2	Stop motion control unit for speed frames without pneumafil fan	5.44	23.41	7.00
3	Installing automatic power factor controlling units at load point.	10.89	46.83	16.00
4	Humidification	3.63	15.61	0.00
5	Lighting	6.35	27.31	8.00
6	Air compressors	5.44	23.41	0.00
7	Distribution system	7.62	32.78	14.00
8	Ringframes (Optimising)	2.90	12.48	0.00
9	Transformers control	1.09	4.68	0.00
10	Carding (Optimising)	1.10	4.73	0.00
11	Energy meters with data logger	0.00	0.00	10.00
	Total	28.13	120.96	129.00