



BILT - ASHTI

Unit Profile

Ballarpur Industries Limited, a flagship of Thapar Group, is engaged in manufacturing of premium grade paper in the unit installed at Ashti in Dist. Gadchiroli, a backward area of Maharashtra. Initially KDB Industries started the Paper Mill but later on KDB Industries Limited was amalgamated. The project cost of extensible Kraft Paper was Rs. 7198 Lakhs and for Multiwall Paper sacks Rs. 939/- Lakhs.

The company possesses 294 Acres of land and the plant is constructed in 57 Acres. The remaining area is utilized for plantation and the colony. The company has its Head office at Gurgaon and caters to the need of customers through regional offices in all major metropolitan & cosmopolitan cities.

The commercial production started in August 1991, both for paper and paper sacks. The licensed capacity of the unit is 60000 Tonnes of paper and 900 lakhs of paper bags per annum. The company is continuously upgrading its technology to enhance the capacity of paper sacks.

The company is utilizing sophisticated machinery at the Ashti Unit and highly skilled employees have been trained to operate the machines.

Ballarpur Industries Limited rebuild its paper machine in Aug'2005 for manufacturing Copy Paper & S.S. Maplitho writing printing Paper by investing Rs. 6500 Lakhs. To manufacture online cut pack photo Copy paper a new A – 4 cut Pack line for 130 MT/day was also installed.

Copy Power is the main Photo Copy Paper, Super brand of Ballarpur Industries Limited. Manufactures SS Maplitho writing & printing papers for graphic industries.

ENERGY CONSUMPTION

There is a continuous decline in specific energy consumption due to regular improvement in energy conservation events in unit.

Description	Unit	2004-2005	2005-2006	2006-2007
Annual Production	MT	29742	28450	53050
Total Electrical energy Consumption/ annum	Lakhs kwh	294.27	211.75	368.36
Specific Energy Consumption - Electrical	kwh/MT	989	744	694
Total Thermal energy Consumption/ annum	MKCal	7811	8194	11510
Specific Energy Consumption - Thermal	MKCal/ MT	238.3	279.95	428.25
Total Paper Manufacturing Cost	Rs lacs	11556.54	7405.81	14425.74
Total Energy Cost	Rs lacs	1231.41	962.74	1926.01
Energy Cost as % Of Manufacturing Cost	%	10.65	13*	13.35*

* Impact of increased coal & purchased power prices

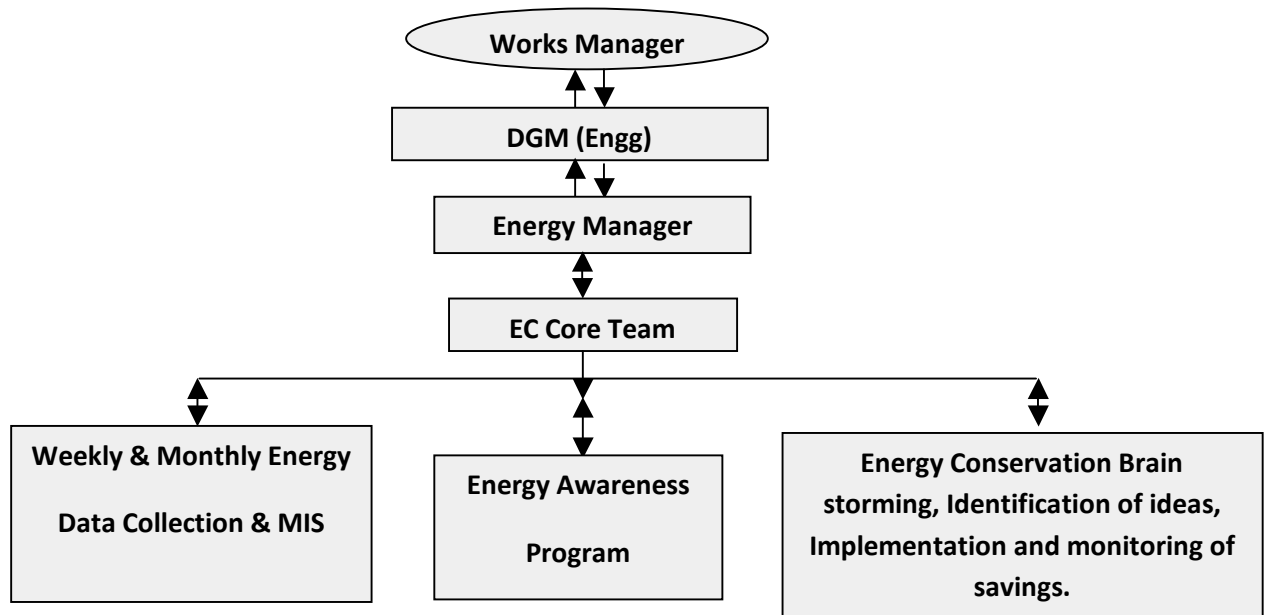
ENERGY CONSERVATION COMMITMENT,POLICY AND SET UP

We at BILT committed for energy conservation.

The unit is using entirely purchase power and utilizing a combination of Coal & Bamboo Dust for the generation of Steam in in-house consumption. Since the Energy Cost has almost doubled in the year 2006-07 as compared to previous two years in 2004-05 & 2005-06. This has put a lot of pressure on the economic viability of the plant operation. The energy bill of the unit is almost equivalent to its annual EBIDTA, thus in future we have planned for an investment of Rs.35 Corer for Power Plant as the factory is located on coal bed in adjusting districts of Chandrapur & Gadchiroli (M.S.).

On the other hand related to corresponding saving in the energy bill and also it has refocused our commitment towards the programme of energy conservation and management.

EC CELL SET UP



Following is our energy Policy:



ISO 9001:2000



ISO 14001:2004

ENERGY MANAGEMENT POLICY

BALLARPUR INDUSTRIES LIMITED, UNIT – ASHTI

Ballarpur Industries Limited, manufacturing Copier, Writing printing paper .

- Continual improvement to maximize resource utilization of purchased power, coal, water and air.
- To Ensure the compliance on statutory rules and regulation pertaining to energy management.
- We are committed to achieve specific energy consumptions with national / international benchmark.
- Impart regular training to create awareness and align the commitment at all levels.
- Top Management commitment & regular reviews to ensure continual improvement.

Let each one of us participate enthusiastically to succeed and sustain this mission in making unit Ashti the pace setter in the area of Energy Conservation.


V. K. BANTH

Works Manager



02 – May - 2007

ENERGY CONSERVATION PLANS AND TARGETS

Energy Conservation Measures (Planned)	Anticipated savings in		Approx. investment (Rs.lakhs)
	<u>Energy Value</u> Per annum	<u>Rs. Lakhs</u>	
Instalation Of VFD at ID fan.	0.84 (Lakhs KWH)	3.65	4
Bamboo storage chest Pump and agitator interlocked with next chest level.	1.39 (Lakhs KWH)	6.03	0.5
Bamboo screen interlocked with Bamboo storage chest Pump	1.26 (Lakhs KWH)	5.47	
Use of CFL	0.24 (Lakhs KWH)	1.04	1
Insulation of bare surface area.	201 MT Coal	3.56	3
Increase in condensate recovery by 5%.	160 MT Coal	2.83	0.5
Insulation of dryers end cover with ceramic.	250 MT Coal	4.43	4.5
Removal of Vacuum pump no.6	5.04 (Lakhs KWH)	21.87	2

ENVIRONMENT AND SAFETY

Unit-Ashti's main objective is to attain zero accident. We are having environment policy in our plant. There is separate safety wing, taking care for ensuring the safe operation of the plant. Safety ambassador from each department are the members of the safety team. Safety ambassador presents the progress to unit head in safety meetings where various types of functional and cross-functional aspects are addressed. Safety slogan & safety poster competitions are arranged every year and best ones are rewarded. Safety week is celebrated every year involving each and every employee and their kith and kin with various safety related programmes like industrial exhibition and road safety at home.

The unit is committed to protect environment through its sound environment policy and activities. We live above the environment commitments and we have been awarded ISO 14001 – 2004 certification. We also have ISO 9001 – 2000 certification.

With the help of our five effluent treatment plant, as well as through better waste management practices, we ensure enviro friendly disposal of waste. The mill uses more than 70% of the ETP treated waster and is also developing a green belt in and around 70 hectare site.

Particular's	MPCB Norms	Actual
B.O.D.	30 mg/l	11.1 – 21.1
C.O.D.	250 mg/l	39.0 – 135.0
Total Suspended Solid	100 mg/l	22.6 – 76.5
Total Dissolve Solids	2100 mg/l	219 – 363

The green belt of forestation maintained by the Unit is more than 33% on available open space land. At present about 80,730 trees are surviving. This could be achieved through regular plantation of trees. We have made plantation in colony, which is irrigated by treated effluent generated from ET plant. As a measure of further environment protection our treated effluent is being used by the local farmers for irrigation purpose.

In continuation of above efforts we have started newly CMA activity. We have established state –of-the art clonal multiplication facilities at Bilt – Ashti unit premises comprising of 32 acres of land. The proposed clonal multiplication project comprises eight glass houses and four shade houses with other related infrastructure facilities to produce five million quality clonal plants every year. This project would supply the desired varieties of clonal eucalyptus plants to mitigate the demand of quality saplings by the rural farmer in Gadchiroli, Chandrapur and other adjoining districts of vidharba region of Maharastra. It is earmarked to develop the desired gene bank in 22 acres of land and the rest 10 acres of the land would be utilized for the purpose if infrastructure development at the project site.

Here, at Unit Ashti, We shall be carrying out around one lac clonal development activity in our own premises, which in turn will be provided to the surrounding farmers. It is planned to plant 1 Lac clonal plant in the gene bank, which acts as green belt and serves as sources for clonal production. It is an eco-friendly project and contributes to the green cover and provides sustainable benefits to the locality. The project requires nothing but 900 M3/day of water for this activity in addition to the 7500 M3/day of permission already granted in the consent to operate issued on 28.06.06. Process of supplying 900M3/day of water from our existing water treatment plant to 32 acres of land.

The project would provide immense benefits to the local farming community in terms of employment generation, training to the farmers, poverty alleviation, contribution to the ecology and socio – economic upliftment. Vast areas of unutilized land, degraded lands and wastelands would be brought under plantation scheme through this project, which directly help the farming community to reap the economic benefits. The clonal saplings produced from this project would double the yield per unit area compared to the normal saplings thereby improving the socio-economic status of the rural farmers.

On ETP front have recently improved our activated sludge process by introduction of Bio – Culture in the system supplemented by diversion of domestic effluent in to the aeration pond of the ETP. This has resulted in overall improvement in the consented secondary outlet parameters with combined treatment of the domestic effluent in the process instead of allowing only soaking into the soak pit.

In plant, studies are undertaken regularly to reduce the water consumption and consequently quantity of effluent generated. Also optimisation of chemical inputs is done regularly to reduce pollutants load on our ET plant. At paper machine, all clear effluents from vacuum pumps, wire showers and cooling water from different places are reused again in the system to the maximum extent. The system has been made to recycle the excess hot water at paper machine for preparation of starch and felt cleaning showers.

The backwater is being taken for dilution of high consistency stock, the remaining quantity of backwater is taken to the fibre recovery system i.e. Disc Filter. The fibre recovery efficiency is being monitored regularly. Efforts are made to improve it efficiency further.

These measures have resulted in significant reduction of our fresh water consumption per MT of paper.

The bag filter is totally removed & new ESP has been installed. The SPM load has been drastically reduced.