



Ballarpur Industries Limited
Unit -Bhigwan

Brief Write-Up of the Unit Ballarpur Industries Limited

Unit - Bhigwan

Unit profile

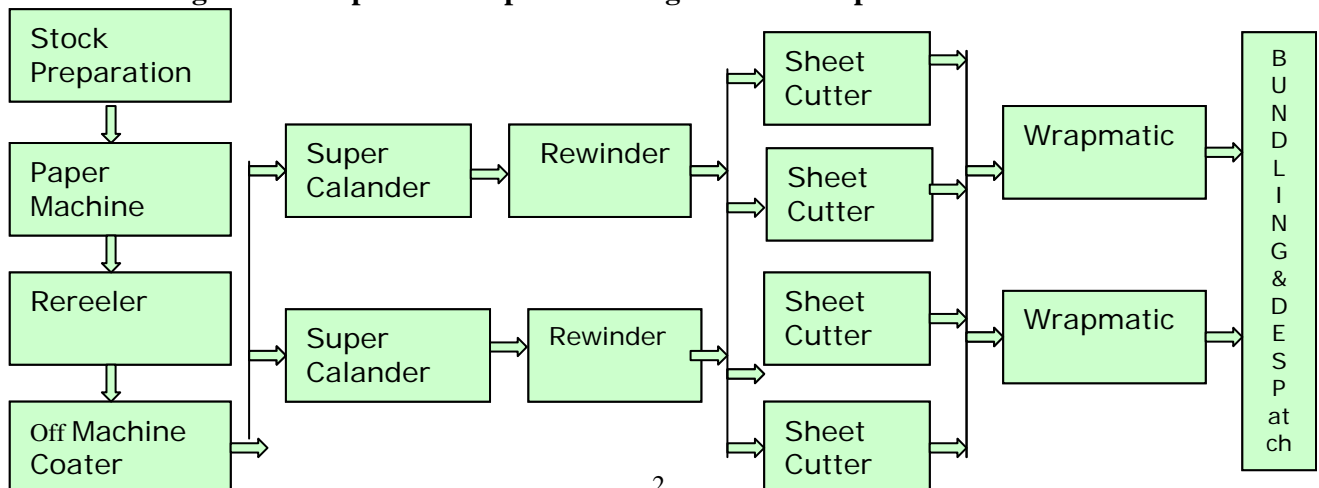


Ballarpur Industries Limited, unit Bhigwan located at village Bhadalwadi, Taluka Indapur, Dist. Pune, Maharashtra. Unit is ISO 9001: 2000, ISO 14001: 2004 and OSHAS 18001 certified. It is one of the largest state-of-the-art Paper Mill, with a capacity to manufacture 1,15,000 tpa of coated wood free paper of various grades based on 100% imported pulp. The company is within 100 top companies of the world.

Manufacturing process

Our process starts from stock preparation where slushing in pulpers, deflacking, refining, centricleaning activities are carried out. Refiners, pulper are run by 500 KW, 350 KW HT motors respectively. In Paper Machine on line coating is done at BTG coater and base paper is produced. This base paper is processed in OFF MACHINE COATER to produce coated paper. The coater has 4 coating stations with Electrical Infra red dryers and 4 cylinder groups where steam is used for paper drying. The coating chemicals / colour is produced in colour kitchen. The coated paper is processed in the fully automated Finishing house equipped with Super calendars, Rewinders, Synchro fly sheet cutter, ream wrapping machines and bundling machines. The 30 MW cogeneration thermal power plant is equipped with High pressure CFBC boiler and extraction cum condensing turbine. Steam requirement for the paper plant is supplied thru extraction and power is generated partly (20%) with extraction and mostly (80%) by condensing. The balance power after meeting the paper plant requirement is exported to MSEB grid. The process flow chart along with pictorial view of plant and machinery is enclosed for reference.

Schematic diagram of the production process along with view of plant :



Pictorial view of the Plant and machinery :



Stock Preparation



Paper Machine



Off Machine Coater



Re-Reeler



Super Calander



Sheet cutter



Despatch

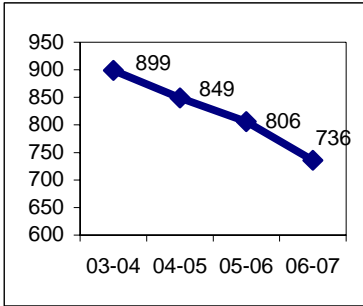


Wrapmatic

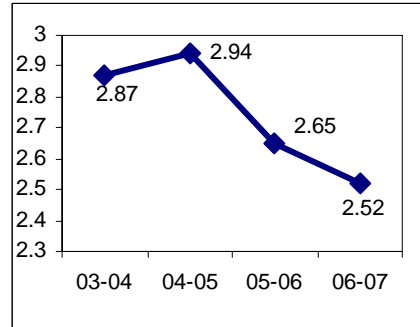
Energy Consumption

With consistent effort and sustained focus on Energy consumption, its controlled use, analysis and implementation of various energy consumption projects, BILT's energy performance is improving continually.

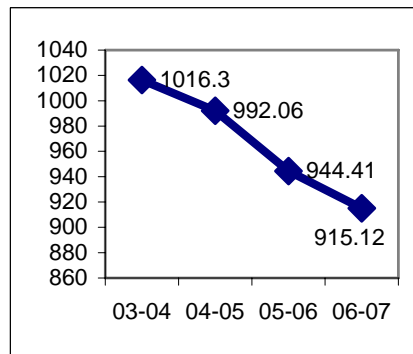
**Specific Electric Energy
Consumption KWH/T**



**Specific Steam
Consumption Ton /T**



**Absolute
Consumption KWH**



Awareness by Celebration of Energy Conservation week & appreciation to employees :



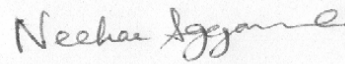
Energy conservation Commitment, Policy and Set Up

We at BILT are committed for effective energy utilization. Our Energy Policy, Energy cell set up, energy monitoring and reporting system, Implementation strategy etc. is detailed in point no. 13. In the year 2006 – 07, eleven major energy saving projects are implemented. The investment made is Rs 55.09 Lacs resulting in total saving of around Rs 150.53 lacs.

: ENERGY POLICY:

We, Ballarpur Industries Limited - Unit Bhigwan, manufacturer of coated paper are committed to provide

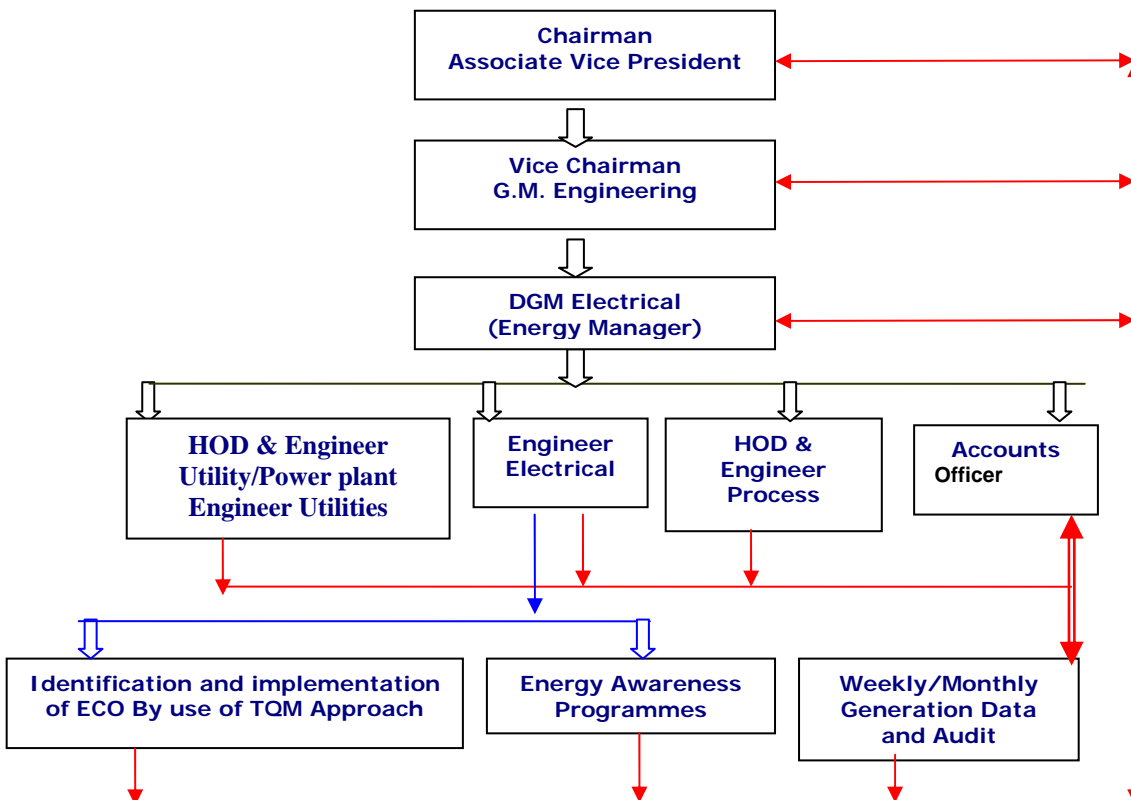
- ❖ Continual improvements in our working to maximize efficiency and achieve resource conservation like water, power, steam, air, oil and coal.
- ❖ Operate reliable processes and reduce cost through efficient use of energy resources / renewable energy sources.
- ❖ To ensure that all statutory rules and regulation related to energy management are followed.
- ❖ To minimize the waste generation and disposal in enviro – friendly way
- ❖ Create a participative, motivating and challenging environments amongst our employees to strive for highest degree of energy conservation and achieve national / international Benchmark.



June 10, 2004

Neehar Aggarwal
(Sr. Vice President – Operations)

Energy Conservation Cell Set Up



The summary of some of the energy conservation projects is as below:

1. Installation of Variable Frequency Drives (4Nos)



Annual Savings: Rs 10.92 Lacs
Investment: Rs 9.09 Lacs

2. Installation of Energy Efficient Pump



Annual Savings: Rs 0.867 Lacs
Investment: Rs 1.50 Lacs

3. Installation of Energy saver



Annual Savings: Rs 1.44 Lacs
Investment: Rs 2.10 Lacs

4. Installation of Solar water system



Annual Savings: Rs 1.38 Lacs
Investment: Rs 5.40 Lacs

5. Optimization of IR Drying power consumption and Up gradation of tension control system



Annual Savings: Rs 93.88 Lacs
Investment: Rs 17.00 Lacs

Safety and Environment

Safety

BILT- Bhigwan's main objective is to attain zero accident. We are having safety policy in our plant. There is separate safety department, taking care for ensuring the safe operation of the plant. Safety ambassador from each dept. are the member 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. Due to all these efforts in the safety fields, we have been awarded OHSAS 18001 certification. Our Company has won Green-tech Golden safety award in the year 2003-04, 2004-05 & 2005 -06. This year Company has also won "Safety Innovation Award –2007" and awarded excellence in safety at national level.



**Safety Innovation
Award 2006,07**



**Green Tech Safety Gold
Award 2004,05,06**

Environment:

BILT, Bhigwan is committed to protect environment through its sound environment policy and activities. With the help of our five-stage state of the art Effluent Treatment Plant, as well as through better waste management practices, we ensure enviro friendly disposal of waste. Our efforts are rewarded at national level.



**Green Tech Environment
Award 2007**



**Green Tech Environment
Award 2004 -06**

BILT has installed a bricks manufacturing plant from boiler ash at unit Bhigwan (commissioning under progress). BILT Bhigwan will be zero discharge unit after the commission of this plant. ETP sludge is burnt in boiler, ETP water & boiler ash will be used for bricks manufacturing.