

GIMATEX INDUSTRIES.(Pvt.)LIMITED
Vill –WANI , PO –HINGANGHAT.
Dist–WARDHA . MAHARASHTRA-44230



OVERVIEW OF GIMATEX INDUSTRIES PVT. LIMITED.
WANI, HINGANGHAT.- 442301
MAHARASHTRA

Unit Profile

Mohota group commenced its operation in the year 1898 by setting up its flagship company Raisaheb Rekhchand Mohota Spg. & Wvg. Mills Ltd. in the cotton belt of central India. This integrated company converting the basic fibre to rich fabrics is one of the very few composite units to withstand all the challenges and threats thrown at it for more than **100 years**. In the recent management restructuring, part of RSR Mohota Mills has been separately formed into a new company rechristened as Gimatex Industries Pvt. Ltd. Administered by a highly dynamic and experienced management and executed by a strong skilled workforce of 3000 people. The group has become a potential player in the market and a name to reckon with

In the year 1994, **Gimatex industries**(**Erstwhile RSR Wani**) embarked on its mission by commencing operations at multiple state-of-the-art manufacturing locations. it has continuously pioneered in improvement of its processes and systems and today with implementation of ERP the company has successfully streamlines its operations. Its ceaseless drive to cater to quality conscious buyers with multiple choices of products has helped company carve a niche in the yarn manufacturing arena. Further to diversify its portfolio company has forward integrated into weaving to deliver high value added fabric in short lead times

Energy consumption:

We always adopt the new technology, which are energy efficient & do the modification also wherever & whenever required in the old machine to comply with our internal norms. There are lot of efforts have been made to reduce the power consumption. With the implementation of various energy conservation efforts, we have been able to reduce the specific energy consumption.

The specific power consumption of last two years is mentioned below. This indicates the continual reduction in energy consumption level over the last two years which is the result of sustainable efforts to conserve energy & new ideas to increase the efficiency of equipments.

Energy Conservation Commitment, Policy and Set up

A team “**ENERGY CONSERVATION CELL**” is specially working on energy saving projects headed by Vice President, Manager (Engineering). The members of energy conservation cell are from engineering, production, and maintenance. Weekly meetings are being conducted. Discussions & last meetings points are reviewed. We regularly give training to our workers for awareness towards energy saving. On line power monitoring system has been installed which gives data mill wise & further sub feeders.

Energy conservation Cell Structure

Managing Director

Vice president

Manager (Engineering)

Energy Manager, Energy Conservation team including Production, Engineering, Maintenance.

Main Activities of Energy Conservation Cell are:

- Identification of area
- Trials & implementation
- Monitoring

Energy Conservation policy:

1. To monitor & control the power consumption levels in all stages of operations on regular basis.
- 2 To control the release of fly to air from all operations of the production activities on regular basis.
3. To reduce overall consumption of electric power in the entire mill operation
4. To increase overall awareness among employees in regards to power consumption, environmental protection & prevention of pollution.

Energy conservation Achievements:

During the period 2003 to 2007, the unit implement various energy conservation measures through in house generated ideas, technological up gradation & various brain storming reasons.

Major energy conservation

1. One air compressor with dryer being made exclusive to run the Air jet machines for N2 nozzles operation.

A 737 CFM compressor has been re-arranged with dryer to run AIRJET machines in mill. This has resulted in bringing down the system pressure 7.5 bars to 6.0 bars

Investment : Rs. 0.8 lacs

Units saved/ annum : 1.29 lacs

Savings in Rs per annum : Rs. 4.65 lacs



OVER VIEW OF KAESER MAKE DSD 201 COMPRESSOR

2. Arrangement of separate compressor for N1 nozzles on airjet

One compressor being made separate for N1 nozzles of Airjet machines which brought down the pressure From 7.5 kg/sq.cm . to 3.5 kg/ sq. cm. and saved energy Consumption.

Investment : Nil Unit saved per annum : 2.16 lacs

Savings in Rs. Per annum : 7.75 lacs



VIEW OF I.R. MAKE IHE – 5 COMPRESSOR

3. Optimisation of plant lighting in production departments.

In production area, the illumination level was optimized as decided by the production department in matching with standard LUX specified by SITRA. More than 300 nos. tube lights in non essential area has been kept out of operation by installin switch.

Investment : Nil

Units saved per annum : 1.08 lacs

Savings in Rs per annum : Rs. 3.9 lacs



VIEW OF CARDING PLANT

4. Installation of energy efficient Opti Power motor in Ringframe in place of conventional motor

In Ring Frame – Four nos. LEDL make (A Unit of LMW) energy efficient opti power motor has been installed to save energy. The efficiency of the motor is 94.6% against original motor of 92.5%. This has also resulted in to improvement of power factor and reduced power consumption.

Investment : Rs. 3.2 lacs

Units saved per annum : 0.25 lacs

Savings in Rs per annum : 0.90 lacs



VIEW OF LEDL OPTI POWER MOTOR

5. Conversion of YCP heating system from electrical Heater to Steam

In Yarn Conditioning Plant , electrical heating System converted into steam heating system. It has given big saving in electric consumption.

Investment : 5 lacs

Unit saved per annum : 2.64 lacs

Savings in Rs per annum : 9.51 lacs



VIEW OF YCP PLANT



STEAM HEATING ARRANGEMENT

6. Taking the benefit of RO plant operation

Conversion of air washer pump into Humi fog system in H&V Plants.

- I In humidity plants of carding ,Ring frame Auto coner and Doubling air washer Pumps removed and Humi fog System installed. It has given better Result in terms of humidity and energy saving.

Investment : 12 lacs

Unit saved per annum : 1.69 lacs

Savings : 6.087 lacs



OVER VIEW OF HUMIFOG PUMP



OVER VIEW OF PUMPS

7 .Removal of Dust suction fan in Autoconer 338 m/c

On four nos. of Autoconer 338 m/c, sub suction Fan . It saves energy without affecting quality Of yarn being produced.

Investment : NIL

Unit saved per annum : 0..99 lacs

Savings Rs. Per annum: 3.57 lacs



OVER VIEW OF DUST SUCTION FAN

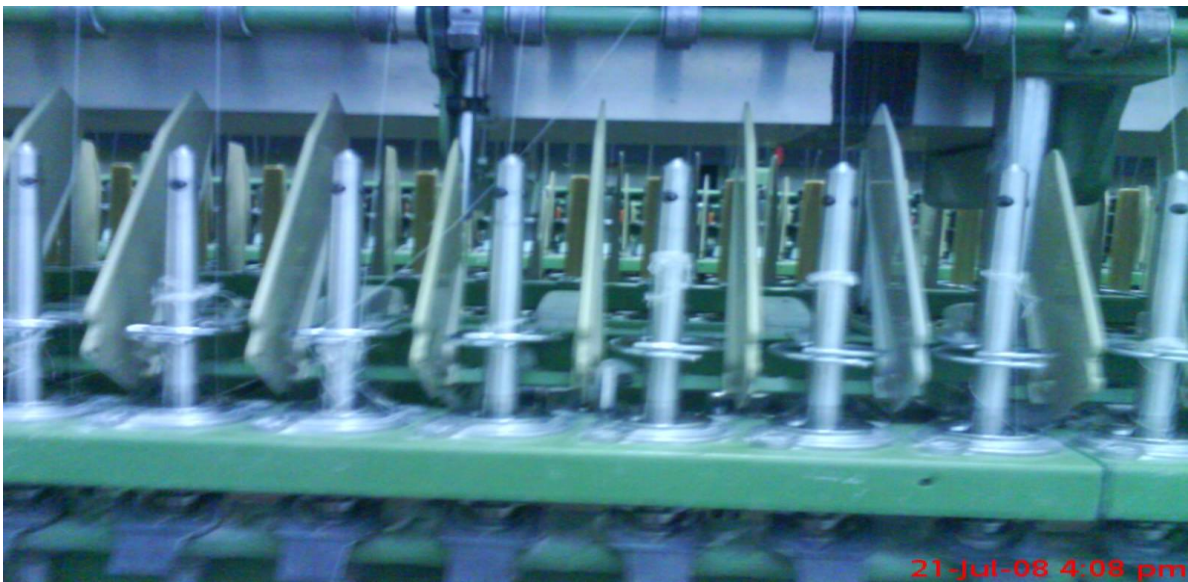
8. Replacement of lighter ENS spindle in place of old M-19 spindle in ringframe

Replaced by NIHON spindle (light in weight) in
In ringframe(LG- 5) the old m- 19 spindle on
One m/c

Investment 5.54 lacs

Unit saved per annum : 0.23 lacs

Savings in Rs per annum : 0.82 lacs



LIGHTRE ENS SPINDLES

9. Conversion of electronic end break detectors on Simplex machine

In 5 nos. of Simplex machine roving end break
Detection converted from pneumafil
Suction tube detector to photo electric stop motion system
End-break detectors.

Investment : 0.42 lacs

Savings : 5.33 lacs

Unit saved per annum : 1.48 lacs



ELECTRONIC END BREAK DETECTOR

10. Removal of heating lamp in department on various machine

All electrical heating lamps (250 watt) in department over various machine have been removed by circulating hot exhaust air of the compressor.

Investment : Nil

Unit saved per annum : 0.43 lacs

Savings in Rs. Per annum : 1.55 lacs



HEATING LAMP



HOT EXHAUST AIR OF COMPRESOR

11. Compensation of reactive power

Connection of capacitors near load to improve Power Factor and compensate cable losses at Various distribution zones.

Investment : nil

Unit saved per annum : 0.75 lacs

Savings in Rs per annum : 2.69lac

12. Installation of energy efficient excel fans in Ring Frame

2 nos. energy efficient excel fans in place of conventional aluminum fans in suction of Ring Frame machines.

Investment : Rs. 0.16 lacs

Units saved per annum : 0.80 lacs

Savings in Rs. Per annum : 2.87 lacs



OVER VIEW OF ENERGY EFFICIENT FAN

13. In rainy season when we got higher humidity at outside area and lower Dry bulb temp. we stopped return air fans and pumps, reduce the Angle of fans at various plants for which we got savings in Power consumption.

**14. In peak summer compressor was drawing more power, condition Was such Dryer was under frequent trip mode.
On implementation of one water cooler on air suction area Of compressor gives us relief and reduced substantial power Consumption**

15. Load factor improvement by demand controlling management Through MD Controller

YEAR	Load Factor %(Avg.)	Total incentive from MSEB
2006-07	76	23.58 lacs
2007-08	87	95.37 lacs



