

KIRLOSKAR BROTHERS LIMITED

Kirloskarvadi, Distt., Sangli (Maharashtra)

Unit Profile

KIRLOSKAR BROTHERS LIMITED (**KBL**) is pioneer company of Kirloskar Group situated at Kirloskarvadi (Maharashtra) . KBL was established in 1888 and in 1926 India's first Pump was manufactured in Kirloskarvadi. Currently KBL is world's 15th largest pump manufacturing company and is in the business of providing innovative and cost effective pumping solutions.

MANUFACTURING PLANT AT KIRLOSKARVADI



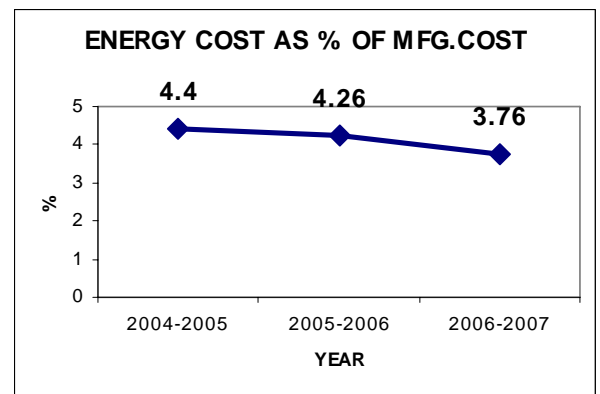
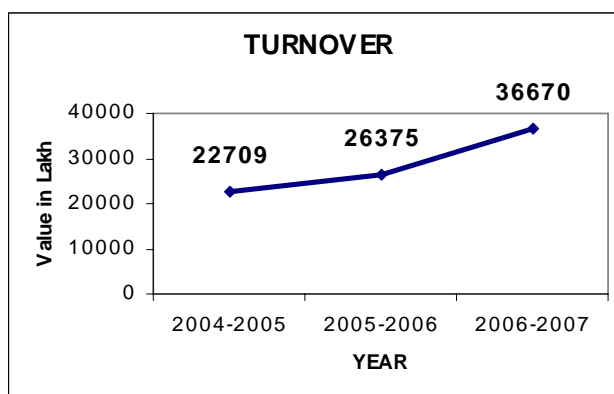
Entrance

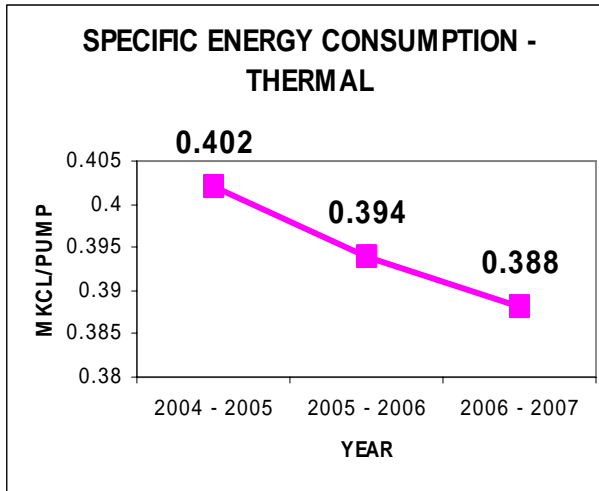
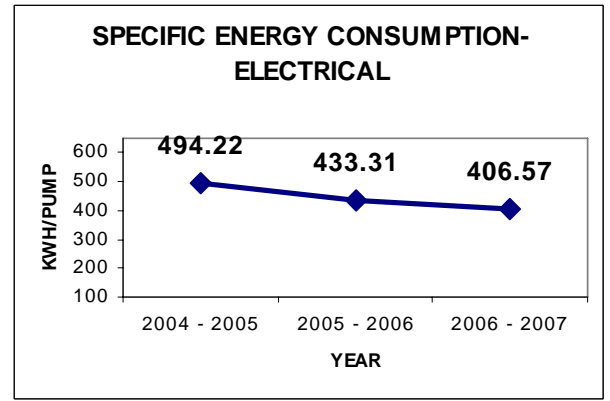
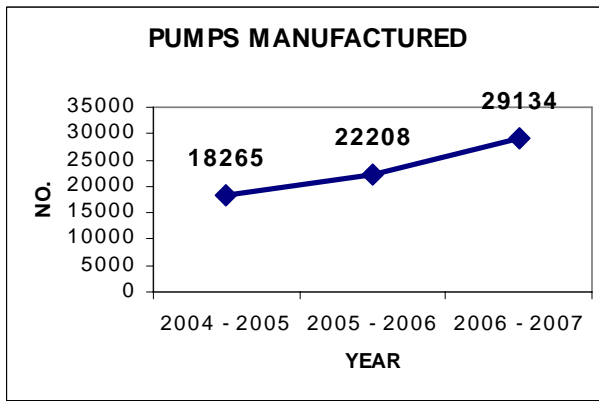


Outer view of one of the machine shop

The plant manufacture various types of pumps like , Split Case , Multistage ,End suction , Swage handling , solid handling , Vertical Turbine and Concrete Volute. These pumps are used for sectors like, irrigation, Coal, Steel, Building, Power, Petrochemicals, and Sugar industry.

Energy Consumption

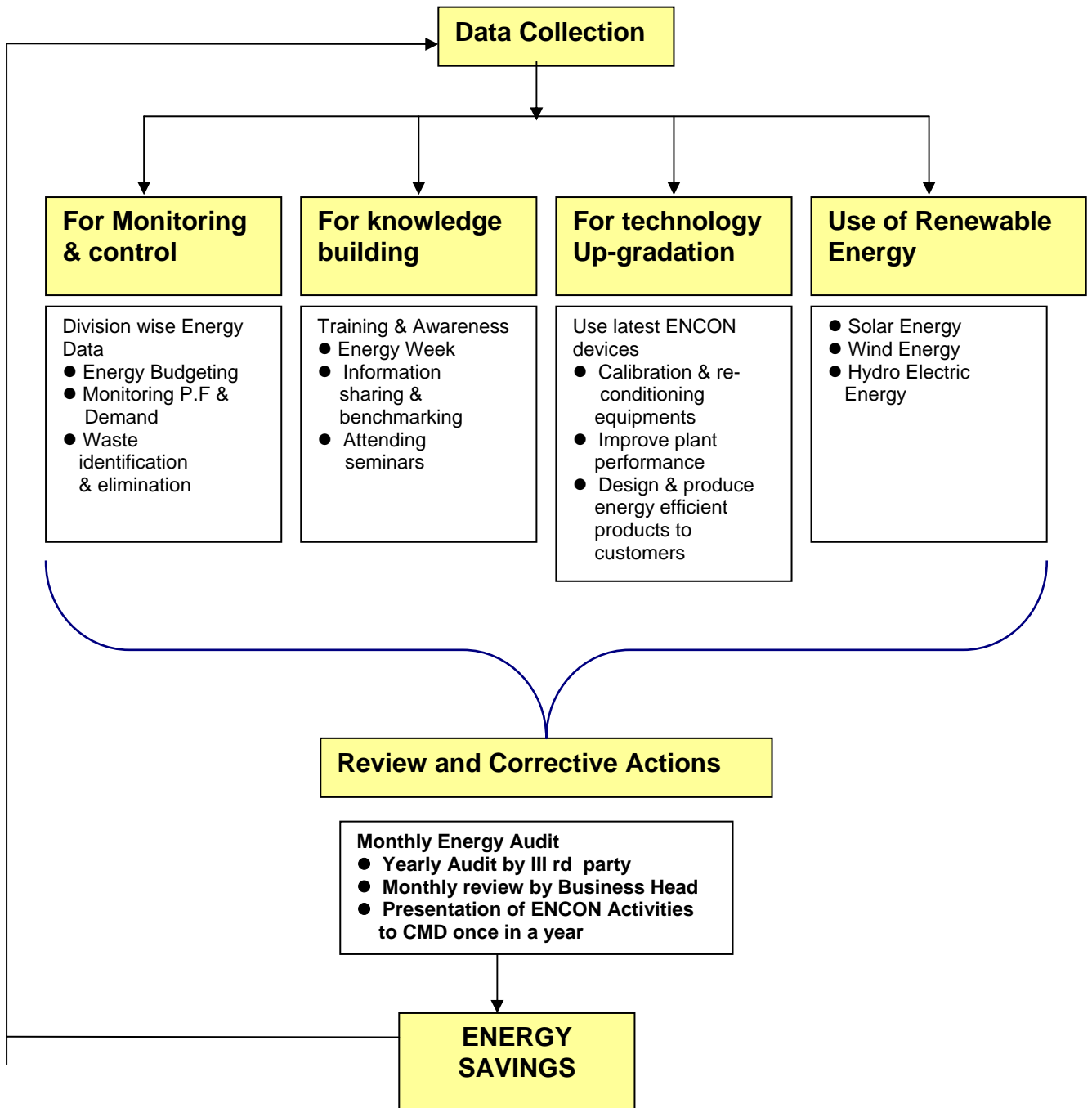




Energy Conservation Policy, Commitment and set up

KBL pioneered in ENCON activity within Kirloskar Group companies from 1989

APPROACH



ENERGY POLICY



KIRLOSKAR BROTHERS LIMITED



ENERGY POLICY

We, at Kirloskar Brothers Limited, Kirloskarvadi, involved in manufacture of Pumps, Pumping Systems, Valves, Turbines and manufacturing and application of Anti-corrosion Coating Materials, are committed to optimize use of energy in our operations & bring about improvement in the energy efficiency of our processes & products. We will fulfill our commitment by,

- Striving to reduce specific energy consumption by continuously taking energy efficiency improvement measures & minimizing energy wastages.
- Using energy efficient processes & equipments.
- Involvement of employees at all levels in the energy conservation efforts.
- Effective dissemination of information related to energy management to all employees.
- Establishing the energy consumption norms & initiating programs to achieve these norms.
- Increase the use of renewable energy resources like wind power, solar, bio-mass etc.

We shall utilize the knowledge & expertise available from various sources including sister concerns, collaborators & outside experts to bring about continuous improvement in the energy efficiency of our processes & products.

Date:15.08.2004

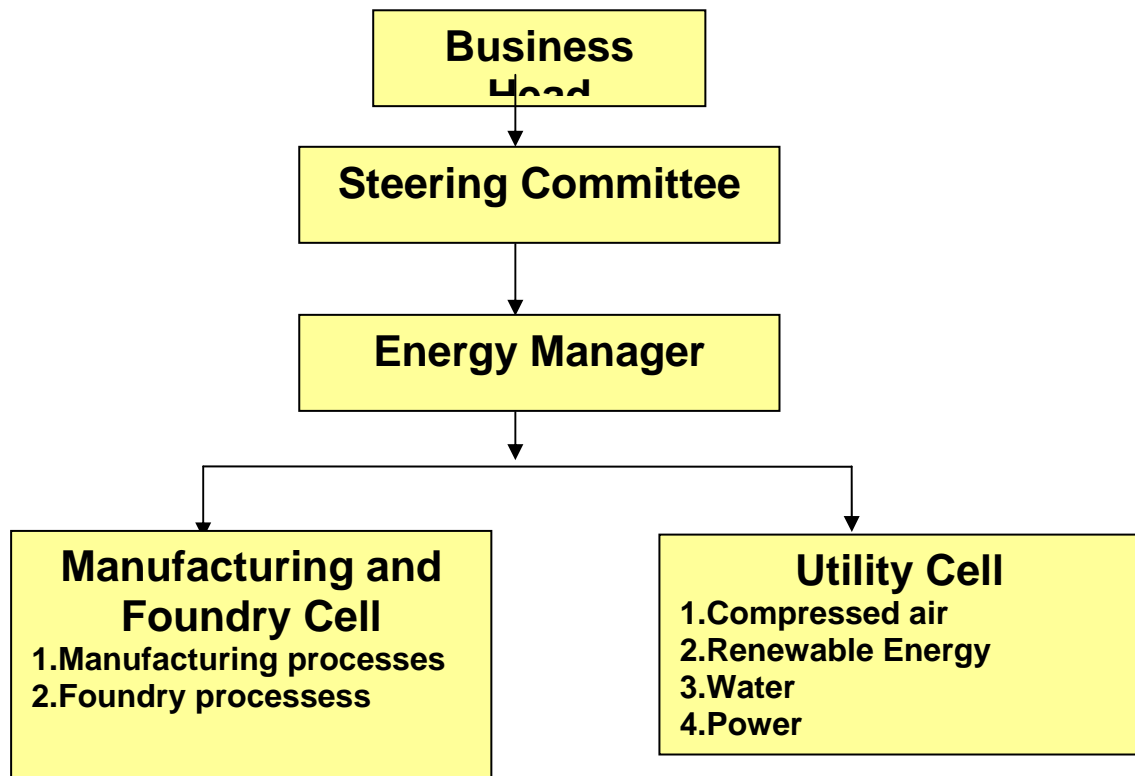


[R.K.Srivastava]

Director & Occupier

Kirloskarvadi-416 308. Dist. Sangli (India)
Regd. & Corporate Office: Udyog Bhavan,
Tilak Road, Pune-411 002. (India)

ORGANIZATION SET UP



Energy Conservation Achievement

Year	Product	kWh/ Pumps	% Reduction over Previous Year
2004-2005	Pumps	494.22	--
2005-2006	Pumps	433.31	14.06
2006-2007	Pumps	406.57	6.58

MAJOR INITIATIVES TAKEN FOR ENERGY CONSERVATION DURING 2006-2007

Sr.	Project title	Investment Rs.Lakhs	Saving Rs.Lakhs
1	Replacement of Halogen , MV , Sodium vapor & choke by metal halide , CFL & Electronic ballast	2.29	2.41
2	Replacement of inefficient motors for machines 55 kw to 45 KW & 5.5. TO 3.7 KW	0.00	3.05
3	Use of variable frequency drive for machines	2.80	5.12
4	Replacement of special purpose 4 machines by new technology one CNC Machine	130.00	31.61
5	Replacement of old continuous running welding machine by new energy efficient Machine - 5 nos	7.00	7.87
6	Replacement of oil fired furnace by Induction furnace	14.00	30.33
7	Use of Wind energy 2.4MW Capacity	790.00	88.70
8	Use of Solar for distilled water and water heating application	2.00	0.52
9	Process monitoring for Pump performance testing	0.50	17.08
10	Addition of capacitor bank to maintain power factor unity	0.50	5.79
11	Replacement of over head leak tank	0.75	0.20
12	Close loop hydro testing for pump components	1.50	0.60
13	Replacement of Petrol Vehicle by battery vehicle	7.50	3.21
Total		958.84	196.49

Environment and Safety

The unit is an ISO 14001 Unit and is committed to preserve environment and safety of all employees.

A) Water Effluent

The effluent from various parts of factory is collected through pipes and connected to one common pipe and finally goes to Effluent Treatment Plant .The coolant and paint mixed water is stored in closed barrels and transported to STP. The treated water is used for gardening.

B) Air

The unit has installed dust collection systems for all foundry areas .Similarly the unit has incorporated stacks for paint area and proper height of stacks are maintained. The plant is also monitoring the quality of air for various parameters as per the standard norms. All the gaseous emission is as per the MPCB norms.