

KINETIC MOTOR COMPANY LIMITED
PITHAMPUR DIST. DHAR M.P.

1. UNIT PROFILE

KMCL is a leading two wheeler manufacturer in India, which introduced the concept of gearless scooters in our country.

This company is a unit of Kinetic Engg. Group, which is in the field of manufacturing of Two Wheelers ranging from 65cc Mopeds to 150cc Motorcycles. The group, has manufacturing facilities at Ahmed Nagar and Koregaon Bhima in the state of Maharashtra also.

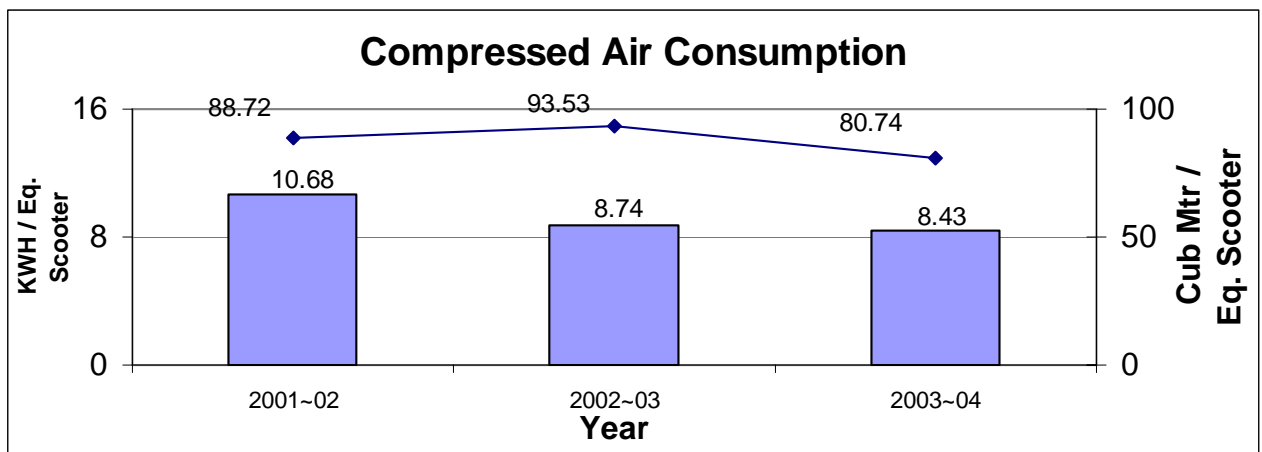
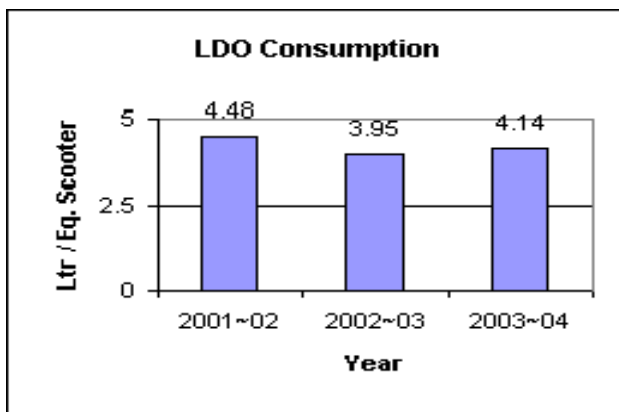
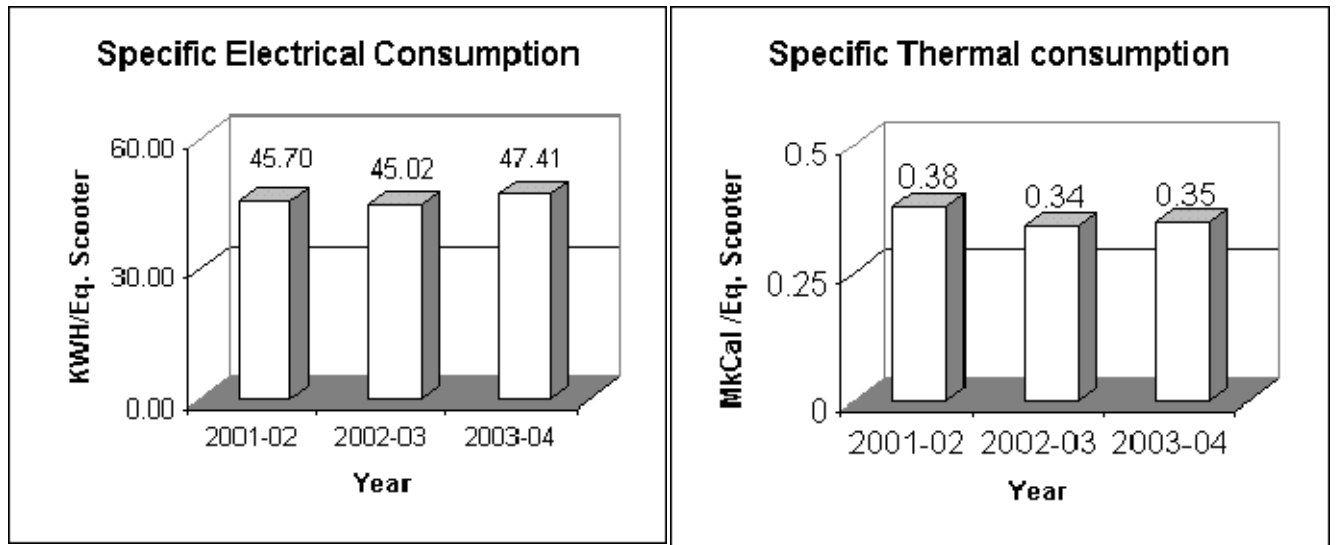
Pithampur unit manufactures the well-known KINETIC scooters viz. ZX ZOOM, MARVEL, ZING and the 4stroke NOVA, which is a real marvel of a scooter. It has set to ride European and American streets.

The company is ISO 9001-2000 certified in 2002. The company exports a sizable No. of scooters to countries like Sri Lanka, Argentina, Mexico, Columbia, Turkey etc and has been receiving Export Excellence Award for 8 years in the past.

2. ENERGY CONSUMPTION

DESCRIPTION	UNIT	2001-02	2002-03	2003~04
Scooter production	Nos	122517	131368	90433
Electrical Energy	kwh/Sc	45.70	45.02	47.41
Thermal Energy	Mkcal/Sc	0.38	0.34	0.35
Total mfg.cost	Rs lacs	3614	3000	1910
Total energy cost	Rs lacs	333	353	273
Energy cost as %age of mfg.cost		9.21	11.74	14.29

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3.ENERGY CONSERVATION –COMMITMENT, POLICY AND SET UP

AT KMCL energy conservation is a way of life and energy conservation activities were started right from the year 1992 and is being continued till date. We have a team

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of engineers and workmen who are always on the look out for possible energy saving. This is in addition to their regular responsibilities, which are also effectively performed. The activities carried out in the past are a clear testimony of our commitment to and involvement in energy conservation.

The company has designated the Energy Manager who has already qualified the National level exam for Energy Manager as per the Energy conservation Act 2001.

As a result of early measures initiated by the company in water conservation and water harvesting no water is purchased from out side agencies other then Govt. supply.

4.ENERGY CONSERVATION ACHIEVEMENTS

Compressed Air System:

“The plant not runs by the compressors but by compressed Air”. Keeping this in mind company is constantly taking various measures to improve efficiency of compressed air system. Two of the old compressors have been replaced with energy efficient compressors in previous years. In continuation to it, this year 3 inch Dia Air line is installed in machine shop for the CNC Machines requires high air pressure in addition of the existing 2 inch Dia. This has reduced the pressure drop by in the line and the compressor setting pressure is reduced from 6.7 Bar to 6 Bar. The 2 inch line is now used for the low pressure applications with regulated air pressure of 3.5~4 Bar in other machines and equipments. This has resulted in substantial reduction in the KWH consumption of the compressor.

Electronic Ballast & Energy Efficient Tube Rods:

Replacement of conventional tube lamps with energy efficient tube rods and electronic ballasts is continued even today in a phased manner. This has reduced electricity consumption by 30~40 % for lighting.

Power Factor Improvement:

The company is maintaining UNITY Power Factor since last Feb 2003 and getting incentive on it in the power bill. As a result of this the max demand is in control and did not exceed over 1695 KVA. Moreover The Company has applied for reduction in Contract Demand.

The details of savings and investment are given in point No 16 in the Award Questionnaire.

Awareness campaign for energy Conservation:

Company is also motivating & developing awareness in people for the energy conservation through various slogans, display boards and informal meetings on shop floor.

5.ENERGY CONSERVATION PLANS AND TARGETS

The company intends to continue its efforts in the field of energy conservation and has a plan of phased replacement of low efficient equipments.

PLAN FOR YEAR 2004-05.

- There VVVF Drives to be installed in P.T. Line Rinsing Pumps – 2 No and Degreasing Pump 1 No in ABS Paint Shop.
- Conventional tube lights to be replaced with energy efficient ones 100 No.
- 400 W HPMV Lamps to be replaced with 250 W MH Lamps.
- Installation of solar heating system in place of electrical water heaters for canteen and housing colony.
- Installation of translucent sheets in Assly hall and paint godown.
- To replace ‘V’ Belt drive with flat belt drives in fans and blowers. The reduction in power consumption is expected by 10 %.

6.ENVIRONMENT AND SAFETY

At KMCL the philosophy is ‘production is next to safety’. During selection of equipments and machineries safety to operating personnel is given prime importance. There has been no major accident in the recent past. Machines have been equipped with safeties like Two hand push buttons, electromechanical interlocks, door switches, guards etc.

A full time safety officer is appointed. There is a safety committee headed by the safety officer and a meeting is conducted every month.

At KMCL environment protection is given high priority. During the project stage itself a sophisticated automatic Effluent Treatment Plant was installed. This is being operated effectively. Subsequently a separate Sewerage Treatment Plant was installed, because the public utility did not provide any sewerage system in Pithampur Industrial Belt as promised.

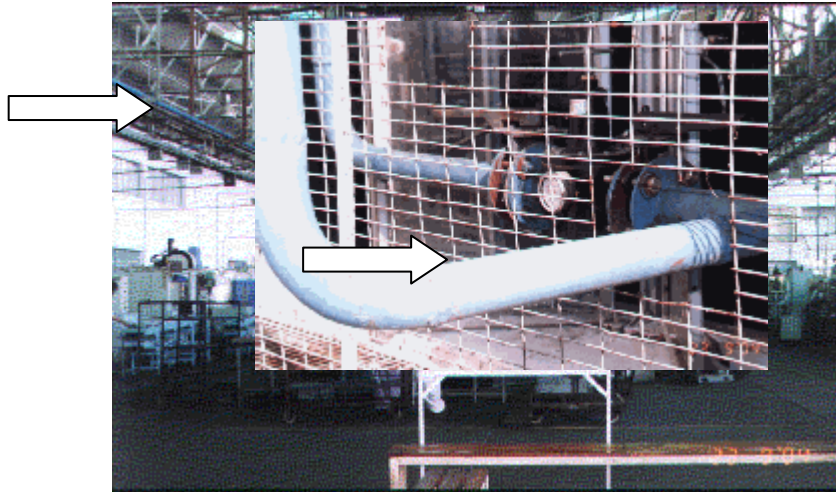
The organization has been awarded the prestigious “EXCELLENT ENVIRONMENTAL & ECOLOGICAL IMPLEMENTATION GOLD AWARD” For 2003~04. This is an Indira Gandhi Memorial National Award organised by International Greenland Society Hyderabad for Pollution Control and Energy Conservation and National Seminar on “Energy Conservation Methods”.



KINETIC MOTOR COMPANY LIMITED, PITHAMPUR

PROJECT NO.1

MODIFICATION OF COMPRESSED AIR LINE (DIA 3" AND INSTALLATION OF AIR REGULATOR IN DIA 2" PIPE LINE.



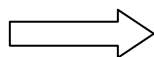
PROJECT NO.2

INSTALLATION OF E.E. TUBE ROD IN PRDN. HALL NO.1 TO SWITCHED OFF HPMV LAMPS DURING NON PRODUCTIVE HRS



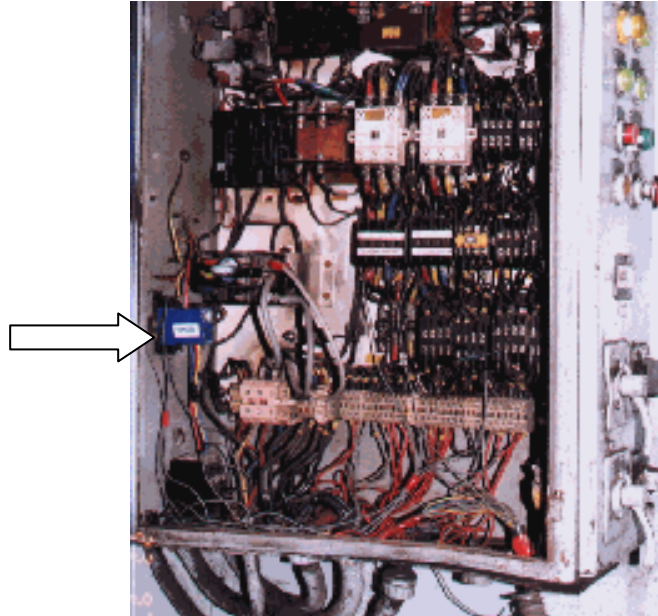
PROJECT NO.3

REPLACEMENT OF CONVENTIONAL TUBE RODS WITH E.E. TUBE RODS & ELECTRONIC BALLAST.



PROJECT NO.4

INSTALLATION OF TIMERS IN THE PRESSES CONTROL CKT.TO SWITCH OFF THE MAIN MOTOR AUTOMATICALLY DURING IDLE RUNNING TIME.



BOARDS MADE IN -HOUSE AND DISPLAYED TO DEVELOPE AWARNESS AMONG THE EMPLOYEES FOR ENERGY CONSERVATION



