

NILKAMAL LIMITED
Sinnar, Dist. Nasik (Maharashtra)

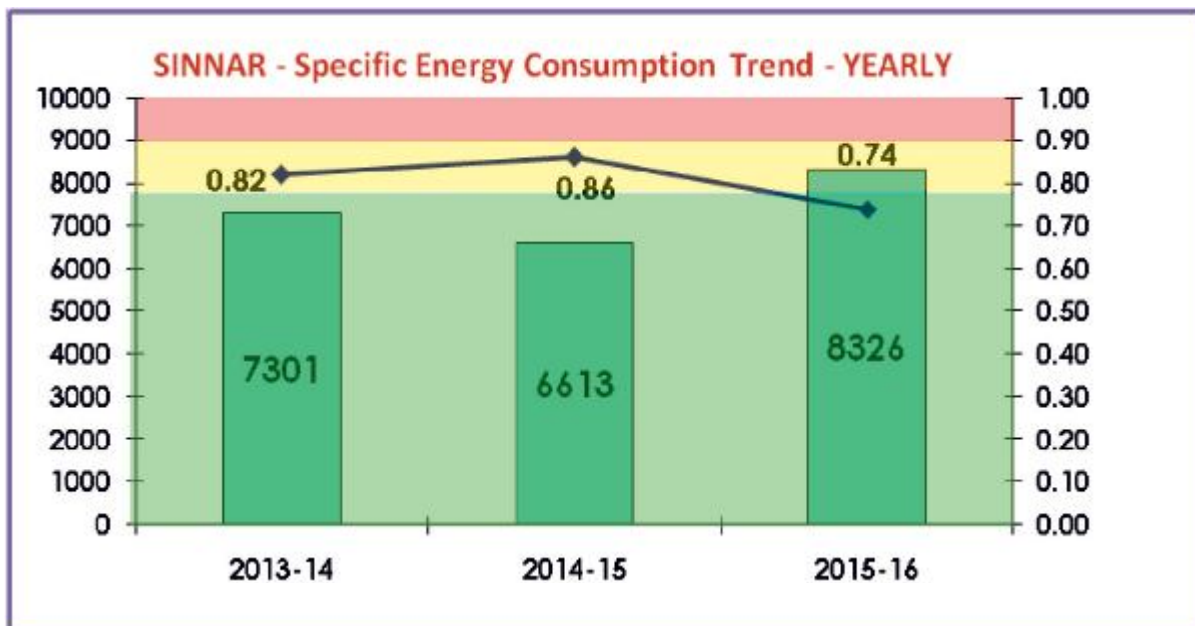
Unit Profile

Nilkamal Limited Sinnar is an ISO 9001-2008 and ISO 50001 Certified Company situated in Maharashtra State with a built-up area of approx. 12400 Mtr². It is well-known Market Leader in the field of Plastic Injection Moulded Crates, furniture, Material Handling Pallets, waste bins and solutions.

The company has excellent infrastructure and committed to Quality, energy and environment with the help of highly knowledgeable, skilled and experienced technical human Resource employed in the field of product development, manufacturing, energy and Environment conservation. The company has set up strong Energy Conservation Cell, focusing on energy consumption, conservation and improvement to help the environment and society as a Moral Obligation.

Group Production capacity is 80000 Ton/Annum, Comprising of Furniture, Pallets and crates, where Sinnar plant has contributed for 8000 tons plastic, converted with the capacity utilization of 90 %.The Sinnar unit’s annual sale Turnover was @ 139 Crores in last year 2015-16.

Energy Consumption Trend - Last 3 Years



Description	Unit	Base Year 2013-14	Year 2014-15	Year 2015-16
Specific Electrical Consumption	Kwh/Kg	0.82	0.86	0.74
Specific Electrical Consumption	Kwh/Ton	820	860	740
Specific % Reduction Over Base Year	%			9.76
Total Energy Bill	Lacs Rs.	401	391	499
Connected Load	KW	3212	3212	3212
Avg.Plant Power Factor		0.999	0.999	0.999

Energy Conservation Achievements

Description	Unit	Year 2014-15	Year 2015-16
Production	MT	6613	8326
Ref Year Energy Use	Lac Kwh	57	
Production Factor (Current year Prod/Ref.year Prod)			1.26
Ref Year equivalent (ref year energy use x production factor) in Lacs	Lac Kwh/Year		72
Current Year Energy in Lacs	Lac Kwh/Year		61
Energy Performance (ref year equivalent-current year energy)x100/Ref. year equivalent.	%		14.43

Energy Conservation Measures Taken:

- 1) Installation of Variable Frequency Drives on all Injection Moulding Machines, saving Demand Load and power consumption by avg. 15%.



Before VFD Installation



After VFD Installation

- 2) Use of Energy Saving Aerogel Technology Barrel Heater Jackets for Injection Moulding Machines to reduce Heat Loss & to reduce atmospheric Temperature.



- 3) Before Jacket Installation



After Jacket Installation

- 4) Modifying Injection Moulding m/c by Retrofitting with Ele. Gear Motor instead of Hydro motor.



BEFORE – M/C With Hydromotor

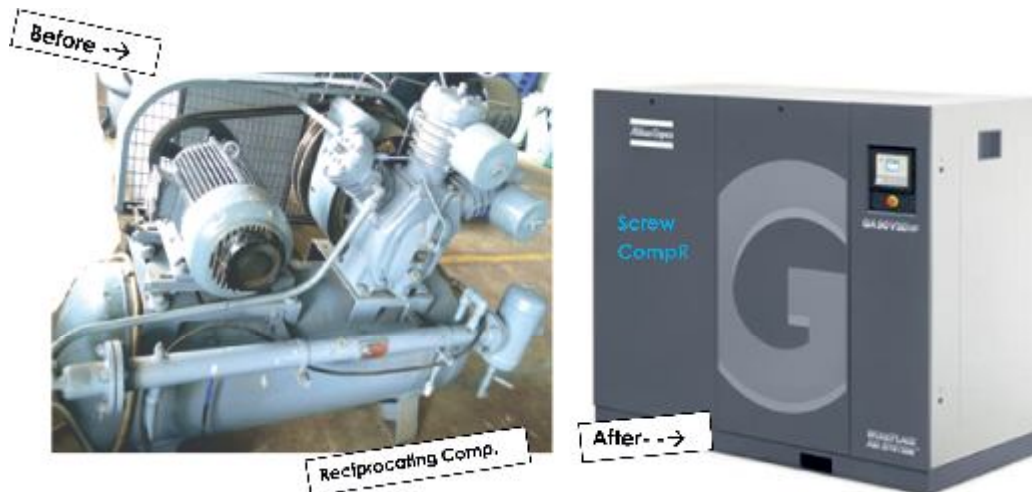


AFTER – m/c with Gear motor

- 5) T5 Asian Light Fittings replaced with LED High bay Fittings with same watts with more Lux.



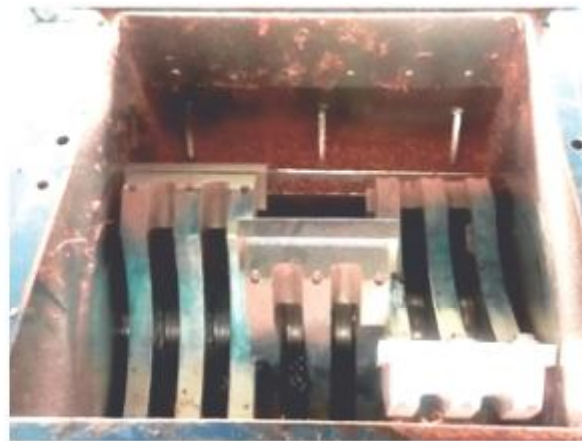
- 6) Replaced Reciprocating old Air Compressor with Energy Efficient Screw Type Air Compressor, separate for ROTO Molding dept.



- 7) Use of natural light in shop floor by putting Transparent sheets on roof top.
8) Retrofitting of Grinder Blade ROTOR done from 2 Blade to 9 Blade Staggered ROTOR



BEFORE - 2 BLADE ROTOR



AFTER - 9 BLADE ROTOR

9) SOLAR ENERGY – Installation Of 400kW Rooftop SOLOR system.



Above Project generates 6 Lac Green Units — Reduce Carbon Footprint by 492 Ton and will result in savings of Rs.50 Lacs/Year.

Energy Policy

Energy Policy

We at Nilkamal recognize and share our responsibilities to help, protect and preserve the environment.

Our policy is a constant reminder of our responsibilities to ensure continuous management commitment and act effectively to reduce the environmental impact of all our activities and commensurate energy consumption.

This Energy Management Policy reveals our intent to:

- **Reduce our carbon foot print, energy consumption, eliminate waste, and conserve energy resources by using energy-efficient and cost-effective technology ensuring adherence to regulatory requirements.**
- **Incorporate energy efficiency into the decision-making process during the design and acquisition of facilities, equipment and transportation systems emphasizing the use of renewable energy sources.**
- **Increase energy efficiency through capital investment and improved operations.**
- **Create continuous awareness by way of communication, training and display to share and own the responsibility towards energy conservation as a moral obligation towards society.**

The document sets out a strategic action plan and associated management system which will ensure continuous review and improvement of our objectives to be achieved.

Date: 01/01/2012

Nitin V Parekh

 (Executive Director)