

**HSIL LIMITED
CERAMIC DIVISION – II
Bibinagar (Andhra Pradesh)**

Unit Profile

HSIL Limited (Formerly known as Hindustan Sanitary ware & Industries Ltd) was established as Hindustan Twyford's Limited, in 1960. It had commenced production in 1962. With subsequent developments, HSIL Limited now has two Sanitary ware Production Divisions; CD - 1 at Bahadurgarh in Haryana and CD - 2 at Bibinagar, Hyderabad in Andhra Pradesh.

HSIL was the first company in India to manufacture Vitreous China Sanitary ware. From a meager start, the Group today stands as a Market leader with a share of 44%. The company has the largest product range to suit any bathroom - Economic or Luxurious, Indian style or European, Conventional or Ultra modern - matched with whispering or flamboyant colors.



Energy Consumptions

Item description	2012-13	2013-14	Variance
Production (MT)	18788	18543	-1.3%
Total consumption of Electricity (Lakh kWh)	774.32	705.49	-8.89%
Specific consumption of Electricity (kWh/MT of Production)	479.23	442.40	-7.69%

Item description	2012-13	2013-14	Variance
Total heat value (Million kCal)	55711.6	51115.7	-8.25%
Specific consumption of Thermal Energy (Million kCal/ MT of Production)	2.96	2.75	- 7.09%

Major energy consumers in Plant and actions taken for energy conservation

Equipment	Fuel	Power	Improvement areas
Kilns	LPG	Electricity	Optimization of kiln operations, by reducing no. of kilns loading from 3 to 2. This has reduced the overall LPG consumption for Kilns from 3167.49 to 2897.95 Tons, and electricity from 18.5 to 18.1 Lakh kWh
Air Compressors	-----	Electricity	Energy efficient motors, Better operational controls, Scheduling has kept the energy consumption under control with a reduction of 1700 kWh
Ball Mills	-----	Electricity	Change of lining material, grinding media and optimization of grinding hours has reduced power consumption from 9.48 to 7.55 Lakh kWh
Casting shops	LPG, FO	Electricity	Monitoring of burner conditions, Isolation of hot air zones with flexi cloth curtains and shifting of small casting areas to bigger areas has reduced the power consumption from 31.71 to 28.42 Lakh kWh
Dryers for Molds & green ware	LPG	Electricity	Utilization of waste heat from Kilns in Mold dryers & ware dryers has reduced the LPG consumption by 141.6 Tons. Optimization of usage has reduced power consumption from 6.38 to 5.44 Lakh kWh
Lights & Ceiling fans	-----	Electricity	Installation of Energy savers, Administrative controls, CFL lighting has reduced power consumption from 2.91 Lakh kWh to 2.38 Lakh kWh

Steps Taken for Energy Conservation Projects

1. Collection and analysis of inputs for identification of potential areas for energy conservation.
2. Brain storming exercises to look for the viability of the project from Quality, Environmental, Safety and Return on Investment point of view.
3. Preparation of project cost, and putting up to Top Management for approval of the project and releasing of funds.
4. Evaluation and selection of vendors based on the experience and competencies.
5. Execution of project adopting tools like CPM & PERT
6. Development & maintenance of documentation.
7. Training of concerned personnel.
8. Evaluation of actual performance against the planned level of performance.
9. Review for further scope of energy conservation and proceed for another project.
10. Sustain the accrued benefits from the project(s).

Strategy & Policy

Energy Management System Approach

"HSIL Ltd is committed to a responsible Energy Management System through practicing of energy efficiency procedures throughout our facilities, plant and equipment for investing wherever it is cost effective, and to sustain the achieved energy efficiency gains"