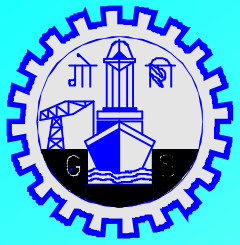


# Welcome to Goa Shipyard Limited



*Goa Shipyard Limited (GSL) established in 1957, is a leading ISO 9001-2000 certified shipyard on the West Coast of India, functioning under the administrative control of Ministry of Defence, Govt. of India. GSL is strategically located on the banks of river Zuari in Goa, a major international tourist destination well connected by its international airport and major port enroute all important shipping lines. Beginning as a small barge building yard, GSL has garnered reputation as one of the most sophisticated ship builders in the Country. For over four decades, GSL has designed, built and commissioned a wide range of sophisticated vessels for varied applications in the defence and commercial sectors with special expertise in building modern patrol vessels of Steel and Aluminium hull structure.*





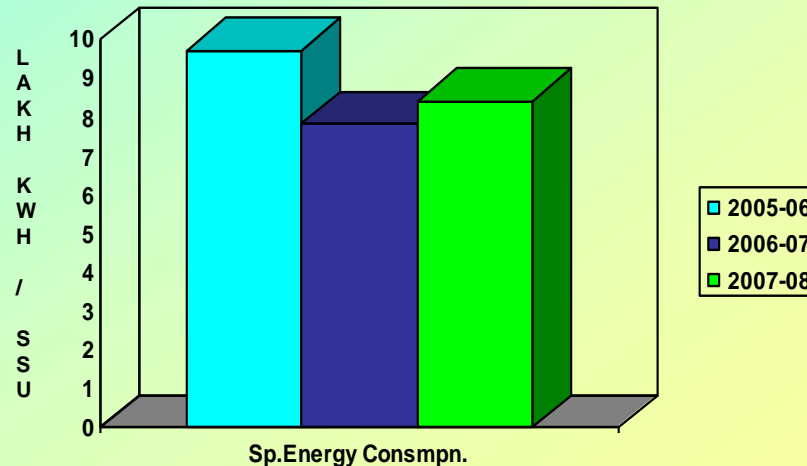
# PRODUCTIVITY/INNOVATION/IMPROVEMENT COMMITTEE

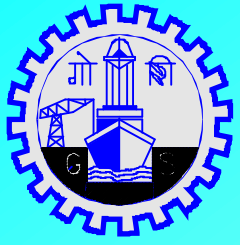
Productivity/Innovation/Improvement Committee was formed as per General Manager (Production)'s memo no 11 /07 dated 14/02/2007.

“The key functions of the committee is to study the present process & suggest improvements in the areas like energy conservation, saving of energy & diversification into development of unconventional and alternate energy sources.”

The following energy saving measures were taken up in Goa Shipyard Ltd for the year 2007-2008.

- Installation of solar water heater for canteen hot water system.
- Installation of 40 W twin tube light system to eliminate the use of 400 W HPMV lamps in new construction bays during non working hours.
- Replacement of welding transformers with energy efficient inverter based welding machines.





## ***The following Energy saving measures were carried out for the year 2007-08***



**Installation of solar water heater for canteen hot water system.**

**Total Investment: Rs 9.39 lacs**

**Energy savings: Rs 2.89 lacs/annum**

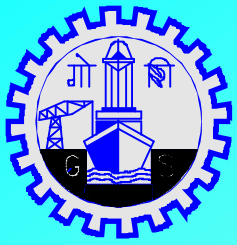


**Installation of 40 Watts twin tube light system to eliminate the use of 400 W HPMV lamps in new construction bays during non working hours.**

**Total Investment: Rs 1lac**

**Saving: Rs 1.35 lacs/annum**





## ***Energy saving measures contd...***



**Replacement of welding transformers with energy efficient inverter based welding machines.**

**Investment: Rs 280 lacs**

**Saving: Rs 15 lacs/annum**



## **Environment & Safety**

**This unit is committed to preserve its environment & safety of its employee. Company has HSE policy with above commitment. The following improvements have been made in this area.**

### **A) AIR.**

- 1.Solar water heating system is used for canteen to reduce carbon content.
- 2.Stack emission monitoring of DG sets are under process.
- 3.All consent to operate under section 21 of the air taken from GPCB.

### **B) Other waste.**

Our company is a shipbuilding industry. The wastes such as used oil, waste oil and collection waste are our solid waste. The waste oil and used oil are used by shipwright section for maintenance for maintenance of steel rails and trolleys as anti rusting and lubricating material, the oils are also being used for storage of steel plates by stores.

The collection waste is collected centrally and disposed by dumping at sancaole area.