



# **A REPORT ON INDUSTRIAL** **VISIT**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY**

**DATE : 22-03-2023 TO 27-03-2023**

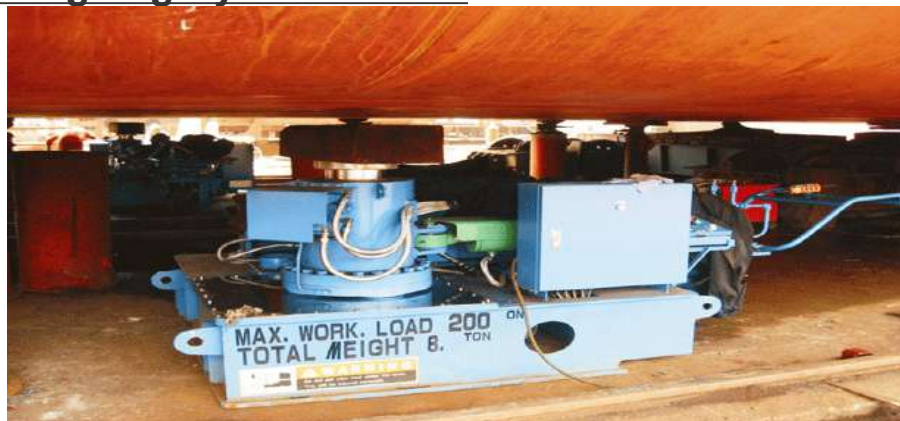
**PLACE OF VISIT : GOA, (Industry -Atlantis Mariana ,chowgule) ,  
Dandeli**

## **INDUSTRY PROFILE**

As pioneers in exploiting the inland waterways in Goa, the Shipbuilding Division of Chowgule & Company Private Limited created waves in utilization of the rivers for the development of the economy. From as early as 1951, as builders, operators and repairers of large river fleets and with the experience and expertise to build a gamut of maritime vessels, the yard has pioneered construction of all types of ocean going vessels up to 7000 DWT. Since then the company has built over 177 different vessels at its two shipyards. Today, we have highly specialized operations in shipbuilding with a focus on export vessels for European markets and the PSU shipyards for Indian Navy and Coast Guard fleet.

It is the main shipyard where the blocks and sections constructed are assembled together to give the final shape to the ship being built. With two Slip ways within the yard where the assembling happens, this yard is where the ships are launched.

### **Section Aligning Hydraulic Jack**



The hydraulic jacks along with the associated oil pump system are used to stretch the prestressing tendons. The double-acting jacks with a through core are most widely used for a bundle of wires and strands (Fig. 3.23). Before the stressing operation, the wires and strands are temporarily anchored in a steel plate over the hydraulic ram, and the jack head is held against the bearing plate in concrete. As the pump works, the ram drives the temporary anchor plate forward (Fig. 3.24). When the data shown in the oil gauge reach the design value of jacking force and the elongation of the tendons achieves the predicted value, the pump stops charging oil. Once the oil pressure is released, the ram draws in and the stressing tendons retract, and the clips are driven into the anchor hole tightly, thus the anchor for the strands is achieved.

### **Automatic Welding Carriage**



Welding automation increases productivity, improves weld quality and welder's working environment. Portable welding carriages work in flat, horizontal and vertical welding positions to reduce wasted filler metal, eliminate over welding and increase welder's arc time. Automation is a perfect solution to typical problems of laborious hand welding:

### **Aerial Work Platform Crane**



An aerial work platform (AWP), also known as an aerial device, elevating work platform (EWP), cherry picker, bucket truck or mobile elevating work platform (MEWP) is a mechanical device used to provide temporary access for people or equipment to inaccessible areas, usually at height. There are distinct types of mechanized access platforms and the individual types may also be known as a "cherry picker", "boom lift" or "scissor lift".

They are generally used for temporary, flexible access purposes such as maintenance and construction work or by firefighters for emergency access, which distinguishes them from permanent access equipment such as elevators. They are designed to lift limited weights — usually less than a ton, although some have a higher safe working load distinguishing them from most types of cranes, They are usually capable of being set up and operated by a single person.



Industrial visit report :

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