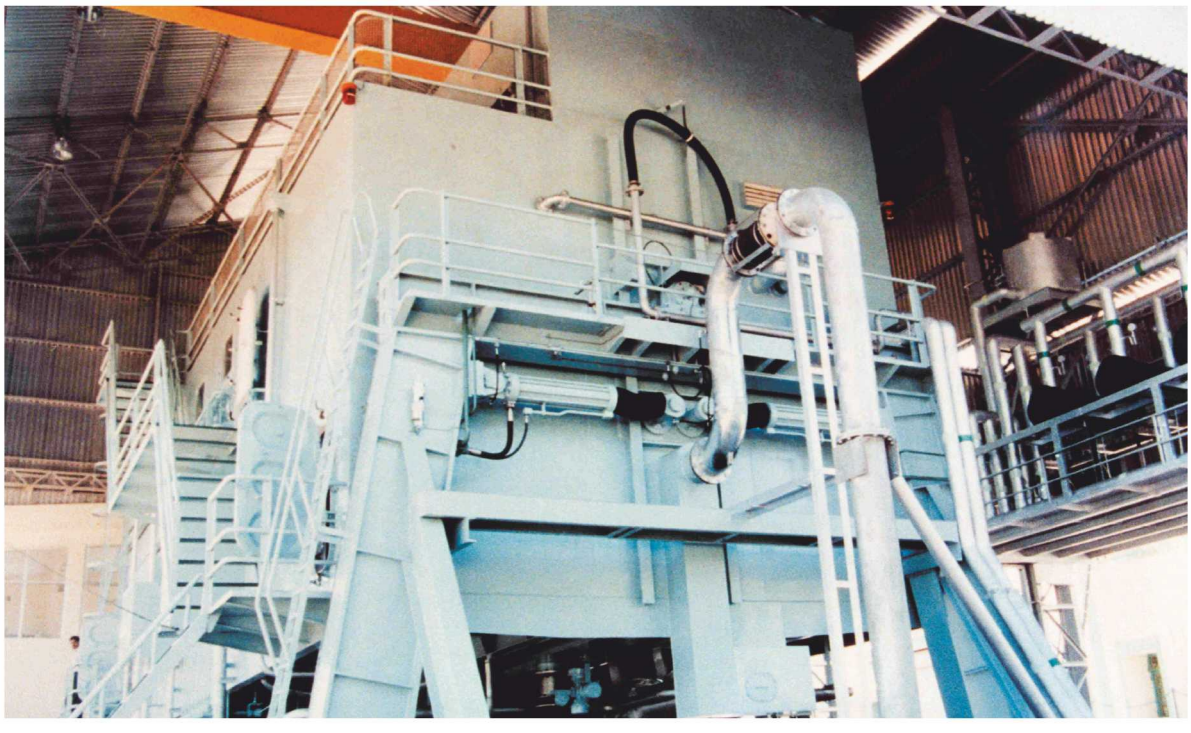
Damage Control Simulator (DCS)



The DCS is essentially a training system that simulates a realistic and stressful but controlled environment for crew training in ship damage control and repair in various damage scenarios. In real life operational service, the possibility of ship damage in both war and peace times is likely. To contain the damage and save the vessel, the crew needs to be able to respond to the threat with efficiency, expertise and confidence gained from training in similar situations. The realistic damage and crisis scenarios generated in the DCS contribute invaluably in driving away fear among the trainees and in improving team building traits, thereby preparing them for unforeseen hardships and emergencies at sea.

GSL has designed, constructed and delivered 04 nos. of Damage Control Simulators (DCS) for Indian Navy namely INS "Akshat" at INS Shivaji, Lonavala, INS "Avinash" at INS Venduruthy, Kochi, INS "Avijit" at Vishwakarma and INS "Amogh" at Port Blair. GSL has also exported 01 no. DCS.

Life cycle support, Customization Upgrades and Logistic support can be provided by GSL for this product.

GOA SHIPYARD LIMITED

Ship Builders, Ship Repairers & Engineers

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Damage Control Simulator (DCS)



General

- **Functions** : To train the naval personnel in ship damage control and repair in various damage scenarios. The training helps in removing psychological fear, developing leadership skills communication skills team building and exposure in handling causalities / injuries
- **Structural Material** : Steel
- **Classification** : Indian Register of Shipping (IRS)

Main Particulars

Three deck structure

19 compartments and five exercise areas

- **Length Overall** : 14.6 m
- **Width** : 6.7 m
- **Height** : 7.87 m
- **Weight** : 75 tons

Exercise Environment

- 75 tones of water flooding capacity
- 15 degree roll
- 20 degree list
- 1.6 m flooding level
- Total darkness
- Smoke generation
- Battle sounds
- Manning 6 instructors, 3 junior sailors and 24 trainees

Exercise Environment

- DCS has inbuilt Crash stop safety facility which stops the oscillations
- Brings the simulator to neutral position
- Drains water from the compartment within 90 seconds
- Switches on the lights
- Stops smoke ingress
- Switches on exhaust & fresh air supply blowers

Support System

- 22 kV substation
- Hydraulic System
- 500 kW Diesel Generator
- 600 /100 TPH Pumps
- HP Air Compressors
- 15 Tons Air Conditioning System
- Water Filtration Plant
- Sound Power Telephone System
- Internal Communication System
- Broadcasting System
- Auto Switching over DG and restoring power supply within 10 seconds incase of shore power failure

Civil Engineering Works

- DCS Shed
- Underground Sump of 250 T Capacity
- Overhead Tank of 150 T Capacity
- Pump Room
- DGLT Room
- RCC Foundation for the supports of two portal frames
- Trainee related infrastructure such as briefing areas, change rooms, bathrooms, etc.

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