

## A Small but Definite Step Towards “Make in India” Initiative!

### THE COMPANY

**SYSTEMS ON SHIP** is an integrated solution provider in the field of electronics Command Control & Communication(3 C), a unique blend of traditional and modern state of art technologies.

**SYSTEMS ON SHIP** provide a complete solution for requirement from concept to an end product on turn-key-basis. SOS believes that each ship is a unique problem of command, controls and communication thus only a tailored solution would only meet and satisfy marine customers fully.

A small group of dedicated engineers who have multi-discipline knowledge and field exposure to the marine environment leave no stone unturned to meet the user specifications. Our solutions are customer centric. We have received appreciation from all our customers and our spread across the board within a short span of time speaks volume and we believe that is a true measure of our customer satisfaction. Every single repeat order from our customer make us humble and inspires us to rededicate to achieve higher and better.

### BRIEF DESCRIPTION

An advanced versatile command system **VCS 99-00** designed and developed by Systems On Ship is meant to replace the existing old point to point telegraph used for communication between the bridge control room and the helideck station where due to ambient noise the voice communication is unreliable. Also traditionally wherever there is critical and crucial execution of command, the written has preference over the verbal command.

The system is designed using advanced touch control HMI at either end. The system acts depending upon the configuration point to point command transfer system. At a given time one HMI act as Master unit and the other act as Slave unit. The system architecture make it possible to have multi master and multi slave configuration thus the design is scalable to meet any complex command control scenario.

The commands are predefined and agreed as per user defined protocol and are displayed on the HMI. A command usually is initiated by pressing the desired command button on the touch screen of the Master Unit. The command is transmitted in a serial data package to the slave unit where the command is displayed by corresponding command by flashing the command and generating audio alarm to draw attention of the operator. Once acknowledged the flashing command at both the units becomes steady and the audio alarm is silenced. In case the command is not acknowledged within specified time an error is generated and receiver unattended alarm is generated. The system is released to issue another command.

The data communication between the Master Unit and other networked units is through serial RS 485 protocol. Alternately data can also be transferred through Ethernet on power line using power line communication eliminating need of running extra cables. In case of multiple units configuration the remaining units other than master and slave units act as repeaters and do not play any active role. As part of damage control the command centers can also have flexibility and the stations can be on line transferred in a seamless manner there by the repeater unit can play a role of master or slave. At a given line the unit displays status of each networked unit and there status.

**SCOPE OF SUPPLY :** Systems On Ship (SOS) Scope of supply for basic one Master One Slave configuration as under :

1. Master Unit HMI VCS99-00 - 1No.
2. Slave Unit HMI VCS99-00 - 1No.
3. Power pack Unit for above - 2Nos.
4. USB to Rs485 converter unit - 2Nos.
5. System Software - 2Nos.
6. Operators Manual - 2Nos.

<http://www.systemsonship.com>

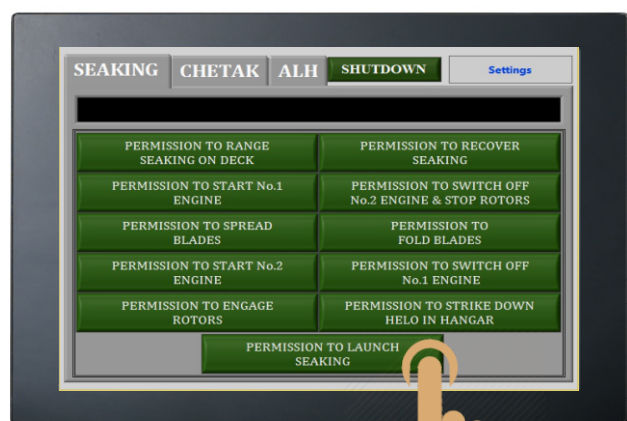
Contact us:-+919821802416 / +91 22 25886636



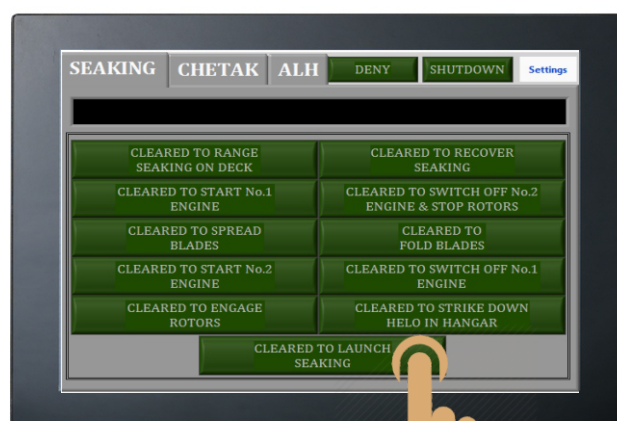
**SOS-Systems On Ship[P] Ltd.**

*Specialist in Command Control & Communication Systems on Board Ships.*

A typical front screen view of VCS 99-00 is reproduced below as reference.



Bridge Control Room Display



Helideck Station Side Display

### Typical System Block Diagram

