

## C-PROFILER

### BRIEF DESCRIPTION:

This developmental work of C-Profiler will aid in collecting near real-time in-situ CTD profile using a tow fish operated from a moving ship/boat in an economical way. The invention is an indigenous C-profiler is designed for collecting real-time in-situ profiles using a tow fish with conductivity, temperature and depth (CTD) sensors from moving ship. The equipment can be used as standard deck equipment for both research and mapping expeditions at lower cost per data

### SALIENT FEATURES AND APPLICATIONS:

- Continuous collection of CTD data without stopping the ship without lifting the tow-fish from water.
- Change of sensor heads on deck can be done swiftly.
- Precise, Low-cost and Rapid method to observe Ocean currents and Eddies.
- System control can be made remotely in C-Profiler
- The C-Profiler trial cruise with 20 profiles was conducted in Bay of Bengal in January 2022.

**Scale of development:** Ready for licensing of Technology



Winch at NIOT

