



ROBO COASTAL OBSERVER



A low-cost buoyant apparatus was developed for remote data collection in water bodies such as river, lake, pond and coast. The proposed equipment could be equipped with sensors for ocean data collection with camera. The equipment can be controlled by a radio controlled remote and the data collected are stored and can be transmitted using RF/GPRS/4G/Satellite telemetry. This equipment can also be used in Polar Regions for ocean data collection very close to the ice bergs without risking life of persons.

Unlike a fixed mooring this equipment has a flexibility of rapid data collection over an area of interest. The data collected from various oceanographic sensors could help researchers by providing valuable data on coastal discharge, salinity variation, pollution monitoring. This equipment can also be used for coastal surveillance.

Robo Coastal Observer can be used for special data collection in coastal and deep waters within a range of 2nm from the source transmitter. It can also be programmed for autonomous data collection with the help of on-board GPS module. It can be used for remote data collection in coastal waters by oceanographic institutions, universities, private industries involved in R&D. The advantage of aiding in rescue/assisting of swimmers in coastal waters will attract persons engaged in coastal fishing; coastal surveillance using the camera fitted with RCO. It can also be used in coastal patrolling covering a limited area



This technology is developed by **National Institute of Ocean Technology**, Ministry of Earth Sciences, Govt. of India and seeks to stimulate the use of technology by commercialization under Make in India Initiative and **National Research Development Corporation** will facilitate for smooth transfer and licensing of the technology with affordable Licencing terms and conditions.

Any company or organization interested in the technical know-how and to get more details about the technology please refer the contact details below.

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