# ABSTRACT

## DESIGN AND FABRICATION OF AMPHIBIOUS UNMANNED ROBOT

A robot device is an instrumented mechanism. Robotics is generally a combination of computational intelligence and physical machines (motors). Main of this project is to develop a GPS based Self Navigation robot. GPS receiver robot gets coordinates. The target location is selected and the robot is left to reach there. The robot is to decide the optimized path from the source to destination while avoiding all the obstacles on any sides.

It uses a rotating ultrasonic sensor for obstacle sensing. Whenever water is sensed the motors that help navigate through water will be operated. The CSIR-CMERI developed amphibian subterranean robotic explorer (SR) is capable of moving over fairly rough terrain. It can swim as well as crawl over basin floor effortlessly. It is a more reliable automatic navigating system as it can move in both land and water.