

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELGAUM**



**A Project Report on**  
**“WATER SPY- A SUBMARINE ROBOT”**  
**(sponsored by Karnataka state council for science and technology)**  
**Submitted in Partial fulfillment for the award of Degree in Bachelor of Engineering**  
**in**  
**Electronics & Communication Engineering**  
**For the academic Year 2010-2011**

Submitted By

**PRIYADARSHINI KOTAGI**  
**SHIVA KUMAR G**  
**SHRIDHAR KEVATI**  
**SURAJ PAWAR**

**1ST07EC065**  
**1ST07EC093**  
**1ST07EC094**  
**1ST07EC107**

Under the guidance of  
**YASHODHARA. C.L**  
Lecturer, Dept of ECE  
SaIT, Bangalore



**Department of Electronics & Communication Engineering**  
**Sambhram Institute of Technology**  
Jyothinagar, M.S.Palya, Vidyaranyapura Post,  
8Bangalore: 560 097.

# **ABSTRACT**

The main objective of this project is to design a remotely controlled submarine robot that has the ability to move in all possible directions underwater and can transmit the live videos or images in the underwater world.

Conventionally we see many robots which work on ground but we thought to accept challenge to make robot which could operate beneath water. Major challenge encountered is to balance the body of robot under water.

Two water tanks required to keep robot beneath water which force it to float and three air tanks are required to stabilize moment of robot under water. Robot is equipped with four DC motors which provide motion to robot in different directions.

The robot can be moved in forward, reverse, left, right, top and bottom directions. The main body of the robot is made from PVC pipes. The robot has a RF transceiver through which it communicates with the user. A magnet is placed so as to lift (attract) the iron particles present in the base of the water. The software can be used to control whole aspect of the robot like directions, Camera etc.