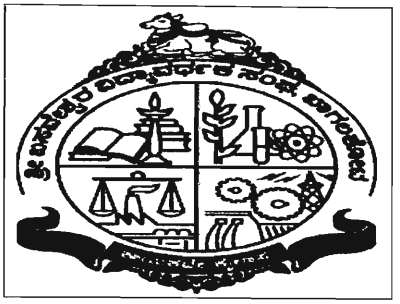
SHRI B.V.V SANGHA'S
BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS)
BAGALKOT



2010 - 2011
DEPARTMENT OF MECHANICAL ENGINEERING

A Project Report On

"DESIGN AND DEVELOPMENT OF ROBOT ARM FOR BORE WELL RESCUE SYSTEM"

A dissertation submitted to Basaveshwar Engineering College (Autonomous), Bagalkot, in the partial fulfillment of the requirements for the award of the degree of

Bachelor of Engineering
In
Mechanical Engineering

Submitted By

Name of the Students	University Seat No
Mr. NEELAPPA V BINGI	2BA07ME051
Mr. PRAVEENKUMAR M KATHARI	2BA07ME071
Mr. NOORMOHAMMAD M MARTUR	2BA07ME053

Under the Guidance of

1.Dr. S N KURBET

2.Prof. V V KUPPAST

Department of Mechanical Engineering
Basaveshwar Engineering College, Bagalkot

1. INTRODUCTION:

The word 'robot' has the origination in the Czech dictionary word 'robota' meaning work. "A robot is a mechanical device with links and joints, driven by actuators and controlled through a control circuit, to handle and manipulate parts, materials, tools and devices for performing various tasks in variety of environments".

For the irrigation of lands, people in the rural areas will go for tube wells. These wells are drilled in the fields and irrigation is done using submersible pumps. If these wells are failed to get water, then the casings will be removed and these drilled wells are left un-filled. This creates a dangerous situation for the people especially for the playing children in the fields. They may fall into these deep wells unknowingly and then rescue of the child becomes a complicated issue. The recent happenings of such events have been reported and the success rate of rescue of the children is very less and the operation time went up to 3 to 4 days. Hence in present work an attempt is made to develop a robot arm which can effectively be used in handling such situations with a success rate of 100%.