

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Belagavi – 590 010**



**PROJECT REPORT  
ON**

**“WATER SURFACE CLEANING DRONE FOR DEAD  
WEIGHT TRASH”**

**Submitted in partial fulfillment of the requirements for the award of degree**

**BACHELOR OF ENGINEERING  
IN  
ELECTRONICS & COMMUNICATION ENGINEERING**

**Submitted By**

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**4AL11EC417  
4AL12EC021  
4AL12EC035  
4AL12EC045**

**Under the Guidance of**

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**Assistant Professor**

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MOODBIDRI – 574 225.**

**2015-2016**

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225

(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING


## CERTIFICATE

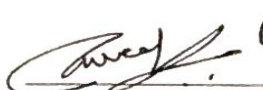
Certified that the project work entitled "**WATER SURFACE CLEANING DRONE FOR DEAD WEIGHT TRASH**" is a bona fide work carried out by

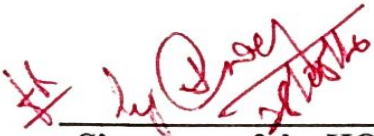
PRASHANTH M. S.  
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in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS & COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2015-2016. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

  
Signature of the Guide  
Ms. Deepa N.

  
Signature of the Co-ordinator  
Mr. Parveez Shariff B. G.

  
Signature of the HOD  
Prof. Raghavendra Rao A.  
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PRINCIPAL  
Signature of the Principal  
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Mijar, MOODBIDRI - 574 225, D.K.

EXTERNAL VIVA

Name of the Examiners

Signature with date

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## **ABSTRACT**

Ponds, lakes and wells meant for human use should be routinely cleaned and treated, so that it remains fit for human use. It is an essential step that should not be avoided. A system of regular testing of pond and lake water can be introduced to ensure the safety of the water. The design is intended to collect the trash floating on the surface of the water, these trash are harmful to the aquatic life and also to human beings.

The drone is remote controlled and hence the manpower required is less, it has two arms in the front which has a mesh attached to it and there is an inclined angle in which it collects the trash and dumps it into the drone. Since, the drone is remote controlled and small comparatively to the existing system it can reach to the places where huge machines cannot reach. The methodology is simple, design is simple, cost effective, can be adopted to any kind of water bodies if implemented.