VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"AUTOMATIC NAVIGATION ALERT SYSTEM FOR FISHERMEN USING GPS AND GSM TECHNIQUES"

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

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

Name	USN
RANJITH S	4AL13EC064
SHREYA J FRANCIS	4AL13EC086
SHREYAS	4AL13EC087
SUDHINA KOTIAN	4AL13EC097

Under the Guidance of
Mr. Pradeep Kumar K
Assistant professor
Department of E&C Engineering

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
MOODBIDRI – 574 225.

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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 "**AUTOMATIC NAVIGATION ALERT SYSTEM FOR FISHERMEN USING GPS AND GSM TECHNIQUES**" *is a bonafide work carried out by*

Ranjith S	**4AL13EC064**
Shreya J Francis	**4AL13EC086**
Shreyas	**4AL13EC087**
Sudhina Kotian	**4AL13EC097**

in partial fulfillment for the award of BACHELOR OF ENGINEERING in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2016–2017. 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.

13/5/17	13/05/17	
Signature of the Guide	**Signature of the H.O.D**	**Signature of the Principal**
Mr. Pradeep Kumar K	**Dr. D V Manjunatha**	**Dr. Peter Fernandes**
	H. O. D.	
	Dept. Of Electronics & Communication	
	Alva's Institute of Engg. & Technology	
	Mijar, MOODBIDRI - 574 225	

EXTERNAL VIVA

Name of the Examiners	Signature with date
1.....	.....
2.....	.....

ABSTRACT

Countries with the International Marine time Boundary Line (IMBL) will always has security problems and continuous life threatens for those fishermen whose family's main economical support is fishing. Even in the peninsular country like India has their boundary limit in the ocean, the people of these coastal regions has the main work of fishing, due to carelessness or without knowing their boundary limit of their country they crosses the borders. In such situation the lives of fishermen continued to be difficult. They may faces bullets and attacks from opposite Navy, at the end of attack fishermen are being abducted and their boats are being captured and this will lead fishermen's life to the threat.

Existing system which is owned by Naval department of respective country which will only detect the boat which comes into their RADAR (Radio Detection And Ranging) system. Navy officials will be watching the border 24X7 manually for the national security purposes such that no intruder will cross the border and enters country but there is no any special provision given to the common fishermen to take care of their life and warn about the main international border before they reach that area which may bring threat to fishermen's life.

This system enables to avoid such kind of accidents and to alert the fishermen about border area well before using latest technology of Global Positioning System (GPS) and Global System for Mobile communication (GSM). Where in this system large oceanographic area are divided into sub locations and those area's location address are stored in fishermen boat when fishermen boat reach those location they get different warning indication and this can help fishermen not to cross the border. This system shows how this technology can be used for detecting natural hazards like Tsunami and thunderstorms and obtaining meteorological information of the ocean for the safe navigation of fisherme