

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590014



A Project Report
On

“S.E.A.M.A.N.”

(Satellite and RF Enabled Assistance for Marine Navigation)



**Funded by Karnataka State Council for
Science and Technology (KSCST)**

Submitted in partial fulfilment for the requirement for the award of the degree

BACHELOR OF ENGINEERING
in
ELECTRONICS & COMMUNICATION ENGINEERING

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ABSTRACT

In Indian Coastal lines, fishing is one of the most important occupations of the people. When the fishermen go out to sea for fishing, they cannot visually distinguish between their country's border, the international water boundary and the other country's border. When they tread into the other country's border unknowingly, they get arrested for trespassing and are thus jailed. This is a major issue existing till date.

This Project aims mainly to meet the safety needs of a fisherman who cannot afford highly priced systems for navigation and communication. Currently, there is no existing system that provides border alerting for the fishermen at sea. Using RF technology, we aim to provide a solution for this. We are also implementing a system which can be used by the fishermen to send out a message with their GPS co-ordinates when they are under danger / distress. We have included additional features such as audio and visual indicators to alert the fishermen when he is crossing the country's border.

A system is implemented which transmits sudden weather change alerts to the fishermen at sea so that they can come back to the shore safely.