



NAVIC NAVIGATION WITH INDIAN CONSTELLATION

A study on fishermen families of coastal karnataka and
Their technological orientation with special reference to
Navic devices of ISRO



An initiative by

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODUBIDIRE

In association with

INDIAN SPACE RESEARCH ORGANIZATION,

NAVIC Device – A Socio- technical feasibility and expectation report

NAVIC – Orientation programme –I in Gangolli - Maravanthe

ISRO has undertaken several measures to educate the fishermen about the working and usage of the NAVIC kit and App. The first demonstration was held at Gangolli Persian Boat Unions Board room on 24th September 2018 at 11 A.M. In this demonstration fishermen and boat owners of Gangolli - Maravanthe regions are requested to participate large in number.



Dr. Divakar P.G. Director,EPDO, will address the fishermen regarding the NAVIC kit and App. Sri. Vivek Alva, Managing Trustee of Alva’s Education Trust, Dr. Peter Fernandes, Principal, AIET and AIET faculties were the part of this program

NAVIC – Orientation programme –II in Malpe

ISRO has undertaken several measures to educate the fishermen about the working and usage of the NAVIC kit and App. The first demonstration was held at Malpe Persian Boat Unions Board room on 24th September 2018 at 4 P.M. In this demonstration fishermen and boat owners of Malpe regions are requested to participate large in number.

Dr. Divakar P.G. Director,EPDO, will address the fishermen regarding the NAVIC kit and App. Sri. Vivek Alva, Managing Trustee of Alva’s Education Trust, Dr. Peter Fernandes, Principal, AIET and AIET faculties will be the part of this program

NAVIC – NAVIGATION WITH INDIAN CONSTELLATION SURVEY

The navigation with constellation survey meeting was held on 1st October 2018 at Persian harbour, Malpe and Gangolli with the presence of Mr. Vivek Alva, Managing Trustee, Alva’s Education Foundation, Moodbidri, Dr. P.G Diwakar, Director,EPDO, Dr. Peter Fernandes, Principal, AIET, Mr. Naveen, Mr. Krishna Suvarna, Mr. Santhosh , the Secretaries , Persian Boat , Malpe, and more than 100 fishermen were present for the meeting along with the Professors and Students of Alva’s Institute of Engineering and Technology Mijar.

In the meeting various problems were discussed with the local fishermen from Malpe and data was collected from them and the president of NAVIC project Dr. P.G. Diwakar, Director,EPDO gave a brief explanation about the project and what are the benefits the fishermen are going to get from this project.



Dr. P.G. Diwakar, Director,EPDO, Sri Vivek Alva, Managing Trustee, AEF, Moodbidri, Dr. Peter Fernandes, Principal, AIET in Gangolli

The main motive of this project is to come with new navigational instrument for boats at lesser cost by ISRO. The current equipment which is used by the most of the fishermen was Furano GPS for navigation and Icom for wireless communication to the port. Those equipment's which were used they were mainly Japanese and Taiwan made those were very expensive to buy for the local fishermen. The present cost of the entire kit is Rs. 1,05,000 and ISRO is promised to give at the lesser cost. The main demand from the fishermen was they should be able to find out the varieties of fishes and there should be an alarm to be fixed to the boat for the alert for the other fishermen.

After the meeting the students of AIET went for the field survey and collected data from fishermen's and Boat Owners.



Survey by the Students of AIET in Persian Boat at Malpe



Discussion with fishermen by Dr. P.G. Diwakar, Director,EPDO and Sri Vivek Alva, Managing Trustee, AEF, Moodbidri in Malpe

NAVIC – Orientation programme -III

The navigation with constellation survey meeting was held on 4th October 2018 at Panjurli Temple, Malpe with the presence of Prof. Kurian, Principal, Alva's Degree College, Moodbidri, Sri. Shivkumar Asst Director, Fisheries Department, Government of Karnataka, Mr. Yashodhara Ameen, President, Persian Boat Union, Malpe Mr. Naveen, Mr. Krishna Suvarna, Mr. Santhosh , the Secretaries , Persian Boat Union , Malpe, and more than 400 fishermen were present for the meeting along with the Professors of Alva's Institute of Engineering and Technology Mijar.



Discussion with fishermen by Prof. Kurian, Principal, Alva's Degree College, Moodbidri

In the meeting various problems were discussed with the local fishermen from Malpe and data was collected from them and Prof. Kurian gave a brief explanation about the project and what are the benefits the fishermen are going to get from this project . Sri. Shivkumar Asst Director, Fisheries Department, Government of Karnataka, suggested to add Transponder (Automatic Identification system) features to the Navic Kit as it is mandatory from the Government.

After the meeting the Professors of AIET went for the field survey and collected data from fishermen's and Boat Owners.

NAVIC – Demonstration and kit distribution

The NAVIC – Demonstration and kit distribution was held on 4th October 2018 at Persian harbour, Malpe with the presence of Mr. Vivek Alva, Managing Trustee, Alva’s Education Foundation, Moodbidri, Mr. Akhileshwar, Senior Scientist, ISRO, Bangalore, Mr. M Saxena, Senior Scientists, ISRO, Bangalore, Mr. Bhargav, Senior Engineer, Antrix Software Bangalore, Mr. Naveen, Mr. Krishna Suvarna, Mr. Santhosh, the Secretaries, Persian Boat, Malpe, and more than 150 fishermen from both Malpe and Gangolli harbour were present for the demonstration along with the Professors of Alva’s Institute of Engineering and Technology Mijar.



Navik Kit Demonstration and Distribution with fishermen by Sri Vivek Alva, Managing Trustee, AEF, Moodbidri and scientists, ISRO, Bangalore in Malpe

Mr. Akhileshwar, Senior Scientist, ISRO, Bangalore, Mr. M Saxena, Senior Scientists, ISRO, Bangalore and Mr. Bhargav, Senior Engineer, Antrix Software Bangalore, have demonstrated and explained the usage of the Navic Kit. The Navic kit was distributed to selected 12 fishermen from both Malpe and Gangolli region.



Mr. Vivek Alva addressed the gathering and requested to make use of the kit and to give correct feedback on the same. And also suggested the secretary of Union, Mr. Krishna Suvarna, to handover the kit to other 12 fishermen after 15 days of usage.

CONTRIBUTORS FOR THE STUDY

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