

उत्तर-पूर्वी अन्तरिक्ष उपयोग केन्द्र

NORTH EASTERN SPACE APPLICATIONS CENTRE

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## CERTIFICATE

This is to certify that the work presented in the report entitled “**DEVELOPMENT OF AN EARLY WARNING SYSTEM FOR THE OUTBREAK OF JAPANESE ENCEPHALITIS USING OPEN SOURCE GIS**” submitted by **Drumil Handique** (CSM11015) and **Lachit Kumar Das** (CSM11030) in the partial fulfilment of the requirement for the degree of **Master of Computer Application (MCA)** under my supervision. The project has not formed the basis for the award previously of any degree, diploma, fellowship or any similar title by any other University or Institute.

The dissertation is the result of their efforts and endeavours. The dissertation is found worthy of acceptance for the completion of their major project in **Master of Computer Application (MCA)**.

Date: May 09, 2014

Place: Shillong

**Dr. Bijoy Krishna Handique**

Scientist/Engineer-SE

North Eastern Space Applications Centre

Department of Space, Govt. of India

Umiam, 7930103 Meghalaya





DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING

TEZPUR UNIVERSITY  
NAPAAM, TEZPUR-784028  
ASSAM : INDIA

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Date: 26/05/14  
Place: TU

Internal Guide

Assistant Professor  
Dr. Arindam Kumar  
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DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING

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**Certificate of Acceptance**

This is to certify that **Mr Drumil Handique(CSM11018) and Lachit Kumar Das(CSM11030)** respectively of Computer Science & Engineering Department of Tezpur University has worked under the supervision of **Dr. Bijoy Krishna Handique** of **North Eastern Space Applications Centre** and **Dr. Arindam Karmakar** of Tezpur University and has successfully completed the project entitled **“DEVELOPMENT OF AN EARLY WARNING SYSTEM FOR THE OUTBREAK OF JAPANESE ENCEPHALITIS USING OPEN SOURCE GIS”**.

The project is hereby accepted by the Department of Computer Science and Engineering, Tezpur University in partial fulfilment of the requirements for the award of **Master of Computer Application (MCA)**.

Date :

Place:

  
Dr. Shyamanta M. Hazarika

Head  
Department of Computer Science & Engineering  
Tezpur University  
Tezpur, Napaam- 784028



DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING

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Date:

Place:

**External Examiner**

Place: Tezpur University, Tezpur

**EXTERNAL  
EXAMINER**

## DECLARATION

We the undersigned hereby declare that the work recored in this project report entitled "**DEVELOPMENT OF AN EARLY WARNING SYSTEM FOR THE OUTBREAK OF JAPANESE ENCEPHALITIS USING OPEN SOURCE GIS**" in partial fulfilment for the requirements of award of Master of Computer Application from Tezpur University is a faithful and bonafide project work carried out at "**North Eastern Space Applications Centre, Dept. of Space, Govt. of India, Meghalaya**" under the supervision and guidance of **Dr. Bijoy Krishna Handique** of North Eastern Space Applications Centre.

The result of this investgation reported in this project have so far not been reported for any other Degree/ Diploma or any other Technical forum.

The assistance and help received during the course of investigation have been duly acknowledged.

Date: 26/05/14

Place: T.O.

*Drumil Handique*  
**Drumil Handique**

*Lachit . K. Das*  
**Lachit Kumar Das**

## **ACKNOWLEDGEMENT**

We are extremely grateful to **Dr. S. Sudhakar, Director, NE-SAC** for his kind approval to do our major project at the centre and allowing us to use system and softwares for smooth execution of our project.

We would like to pay our sincere gratitude to our project supervisor **Dr. Bijoy Krishana Handique Scientist/Engineer-SE, NE-SAC** for his continous support and guidance. His immense knowledge has helped us a lot in the successful completion of this project.

We would also like to express our sincere gratitude to **Dr. Shymanta M Hazarika, HOD Dept. Of CSE, Tezpur University, Dr. Dhruba K Bhattacharyya, Dean, School Of Engineering, Tezpur University and Dr. Arindam Karmar, Asst. Proffesor, Tezpur University** for giving us the oppurtunity to undertake this project at NE-SAC.

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Lastly, we express our heartfelt admiration to all those who have directly or indirectly contributed to the succesful completion of our major project and we gratefully acknowldge their contribution, co-opertaion towards completion of the project and also **NE-SAC, Department of Computer Science and Engineering, Tezpur University** for making this project a great learning experience.

**Drumil Handique**

**Lachit Kumar Das**

MCA 6<sup>h</sup> Semester

Department of Computer  
Science and Engineering

Tezpur University