

उत्तर-पूर्वी अन्तरिक्ष उपयोग केन्द्र

NORTH EASTERN SPACE APPLICATIONS CENTRE

भारत सरकार, अन्तरिक्ष विभाग

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12th May 2014

CERTIFICATE

This is to certify that the work presented in the report entitled "**DEVELOPMENT OF TIMBER VOLUME ESTIMATOR FOR MEGHALAYA FORESTS BASED ON OGC SERVICES AND USING OPEN-SOURCE SOFTWARES**" submitted by **Saumen Dasgupta** (CSM11018), **Prasenjit Duarah** (CSM11029) and **Rajib Hazarika** (CSM11038) in the partial fulfilment of the requirements for the degree of **Master of Computer Application (MCA)** under our supervision. The project has not formed the basis for the award 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)**.



(Puyam S Singh)

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DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY

NAPAAM, TEZPUR-784028
ASSAM : INDIA

CERTIFICATE

This is to certify that the work presented in the report entitled **“DEVELOPMENT OF TIMBER VOLUME ESTIMATOR FOR MEGHALAYA FORESTS BASED ON OGC SERVICES AND USING OPEN-SOURCE SOFTWARES”** Under North Eastern Space Applications Centre, Dept. of Space, Govt of India submitted by **Saumen Dasgupta (CSM11018)** , **Prasenjit Duarah (CSM11029)** and **Rajib Hazarika (CSM11038)** in the partial fulfilment of the requirement for the degree of **Master of Computer Application (MCA)** has been examined.

Date: 23/05/14

Dr. Arindam Karmakar (Internal Guide)
Assistant Professor
Place: Tezpur University, Tezpur

Assistant Professor
Department of Computer Science & Engg.
Tezpur University

Certificate of Acceptance

This is to certify that **Mr Saumen Dasgupta (CSM11018), Mr Prasenjit Duarah (CSM11029) and Rajib Hazarika (CSM11038)** respectively of Computer Science & Engineering Department of Tezpur University has worked under the supervision of **Mr Puyam S Singh and Dr Rocky Pebam** of **North Eastern Space Applications Centre** and has successfully completed the project entitled **“DEVELOPMENT OF TIMBER VOLUME ESTIMATOR FOR MEGHALAYA FORESTS BASED ON OGC SERVICES AND USING OPEN-SOURCE SOFTWARES”** .

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)**.


Dr. Shaymanta M. Hazarika

Head
Department of Computer Science & Engg
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DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
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Date:


Internal Examiner
Place: Tezpur University, Tezpur
Professor
Department of Computer Science & Engineering
Tezpur University



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY

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Date:

External Examiner

Place: Tezpur University, Tezpur

**EXTERNAL
EXAMINER**

DECLARATION

We the undersigned hereby declare that the work recorded in this project report entitled **“DEVELOPMENT OF TIMBER VOLUME ESTIMATOR FOR MEGHALAYA FORESTS BASED ON OGC SERVICES AND USING OPEN-SOURCE SOFTWARES”** 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 **Mr. Puyam S Singh and Dr. Rocky Pebam** of North Eastern Space Applications Centre.

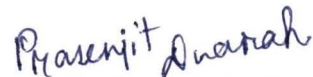
The result of this investigation reported in this project have so far not been reported for any other Degree/ Diploma or any other Technical forum.

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

Date: 26/05/2014



Saumen Dasgupta (CSM11018)



Prasenjit Duarah (CSM11029)



Rajib Hazarika (CSM11038)

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We would like to pay our sincere gratitude to our project supervisors **Mr.Puyam S. Singh Scientist/Engineer-SD,NE-SAC** and **Dr.Rocky Pebam Scientist/Engineer-SD, NE-SAC** for their continous support and guidance.Their 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 successful completion of our major project and we gratefully acknowldge each other contribution, co-opertaion towards completion of the project and also **NE-SAC, Dept Of Computer Science And Engineering, Tezpur University** for making this project a great learning experience.

Saumen Dasgupta

Prasenjit Duarah

Rajib Hazarika

MCA 6^h Semester

**Department of Computer
Science and Engineering**

Tezpur University