



STATE LEVEL NODAL AGENCY (IWMP)
Govt. of Assam
Bhumi Sangrakshan Bhawan, R.G. Baruah Road, Guwahati

Prof. S. C. Patra, PhD
Senior Consultant, SLNA
(Former Professor, WRE, NERIWALM)

28th May, 2015

CERTIFICATE

Sri Mridul Suklabaidya, Sri Probin Doley and Sri Shyamol Jyoti Dowarah students of MCA 2012-2015 batch of Department of Computer Science and Engineering, Tezpur University have done their Major Project titled "**Web Based Geo-Spatial Data Management on Natural Resource Information of NESDI**" under my guidance when I was Professor, Water Resources Engineering in NERIWALM, Tezpur and later when I became Senior Consultant, SLNA. They have associated me throughout this project and they have taken my suggestions in developing different components of their Major Project. They have made changes to the earlier portal and have developed a new portal for NESDI (North Eastern Spatial Data Infrastructure) and published layers for NESDI portal using GeoServer, PostGIS and PostgreSQL. They have developed applications for viewing GIS data as application for watershed management for IWMP projects of Assam.

During their project period, they have learnt and explored open source softwares like GeoServer, QGIS, PostgreSQL and PostGIS etc. and have successfully completed the project. I found them sincere, hardworking and technically sound and result oriented. I take this opportunity to appreciate their work and efforts and also wish them all the best for their future.

(S.C. Patra)



Tezpur University

Certificate

This is to certify that the project report entitled "**Web Based Geo-spatial Data Management on Natural Resource Information System**", submitted to the Department of Computer Science and Engineering, Tezpur University, in partial fulfillment for the award of the degree of Master of Computer Application, is a record of bona fide work carried out by Mridul Suklabaidya (Roll No. CSM12028), Probin Doley (Roll No. CSM12031) and Shyamol Jyoti Dowarah (Roll No. CSM12015) under my supervision and guidance.

No part of this dissertation/report has been submitted elsewhere for award of any other degree.

Dr. S.K. Sinha

Professor, Dept. of CSE

Internal Guide

Professor
Department of Computer Science & Engg.
Tezpur University

Place: Tezpur


Date: 2nd June, 2015



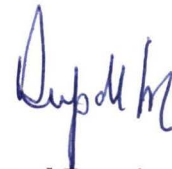
DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM.

CERTIFICATE

This report entitled **Web based Geo-spatial data management on Natural Resource Information of NESDI** submitted by **Mridul Suklabaidya (CSM12028)**, **Probin Doley (CSM12031)** and **Shyamol Jyoti Dowarah (CSM12015)** in partial fulfillment of requirements for the degree of Master of Computer Application (MCA) of Tezpur University has been examined.


03.06.15

Internal Examiner
Date: *Professor*
Place: Department of Computer Science & Engg.
Tezpur University


3-6-15

External Examiner
Date: **EXTERNAL**
Place: **EXAMINER**

Declaration



I hereby declare that the project entitled **“Web based Geo-spatial data management on natural resource information of NESDI”** embodied in this dissertation has been carried out by our self under the guidance of Dr. S.C. Patra, Senior Consultant, SLNA, Guwahati and Dr. S.K. Sinha, Professor, Department of Computer Science and Engineering, Tezpur University and no part of it has been submitted for any degree or diploma of any institution previously.

Mridul Suklabaidya
2/06/15

Mridul Suklabaidya

Roll No. – CSM12028

Probin Doley
2/06/2015

Probin Doley

Roll No. – CSM12031

Shyamol Jyoti Dowarah
02/06/15

Shyamol Jyoti Dowarah

Roll No. – CSM12015

Acknowledgement

A major project is an early opportunity for learning and self-development. We consider our self very lucky and honored to have so many wonderful people who lead us through in completion of the project.

For this major project, we had worked under NESDI project, a project aimed as incubation for full-fledged Spatial Data Infrastructure (SDIs) in NER states for which Prof. S.C. Patra of NERIWALM is the Principal investigator. He has continuously guided us and without his guidance it would not have been possible to do complete the project in its present shape. We are highly indebted to him for his able guidance.

We express our deep and sincere gratitude to Dr. S.K. Sinha, Professor, Department of Computer Science and Engineering, Tezpur University, Napaam, Tezpur, who has been our supervisor since the beginning of this study as well as the project. This project had been far beyond completion without his exquisite support. We are greatly indebted for his valuable, constructive and critical guidance throughout the tenure of this project.

They have not only helped us in our project but also inculcated the broad perspective of our project and its applications in various fields, for which we shall always remain indebted to them.

Date: 2nd June, 2015

Place: Tezpur

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2/6/15

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Roll No. – CSM12028

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Probin Doley

Roll No. – CSM12031

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Roll No. – CSM12015