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**NORTH EASTERN REGIONAL INSTITUTE OF  
WATER AND LAND MANAGEMENT**  
An Institute under the Ministry of Water Resources  
Govt. of India  
(Registered under the Societies Registration Act 1860)

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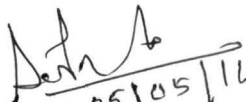
*Prof. S. C. Patra, PhD*  
*Professor, Water Resources Engineering*

**CERTIFICATE**

**Sri Ishwar Chandra Behera**(CSM11062) and **Kumar Kisalay** (CSM11004) students of MCA 2011-14 batch of Department of Computer Science and Engineering, Tezpur University have done their Major Project titled **“Improving design of the NESDI Geo-Portal and development of applications for water, rural management and election management”** under my guidance. They have associated me throughout their project work and took my suggestions in refining different components of their major project. Their work consists of web designing and writing necessary codes in html and php for the NESDI web Portal.

During this project work, they have developed the required skills and have learnt and explored open source softwares like Postgre SQL, Geo server and they have successfully written/modified the source codes to bring the NESDI Geo-Portal to its current shape.

Date: 25-05-2014  
Tezpur

  
( S. C. Patra )  
25/05/14



DEPARTMENT OF  
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## CERTIFICATE

This is to certify that, Ishwar Chandra Behera (CSM11062) & Kumar Kosalay (CSM11004) have prepared the project work entitled **“Improving design of the NESDI Geo portal and Development of applications for Water, Rural development and Election management”**. This work was done under my supervision and guidance.

The dissertation is the result of their effort and endeavors. The dissertation is found worthy of acceptance for partial fulfillment of their major project of MCA 6<sup>th</sup> semester.

Date: 26.05.2014  
Place: Tezpur

  
Signature of the supervisor  
Dr. Siddhartha S. Satapathy  
Assistant Professor  
Department of CSE  
Tezpur University  
Tezpur



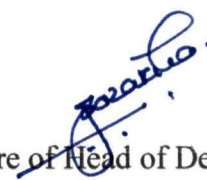
DEPARTMENT OF  
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## CERTIFICATE

This is certify that the work presented in the report entitled “**Improving design of the NESDI Geo portal and Development of applications for Water, Rural development and Election management**” submitted by Ishwar Chandra Behera (CSM11062) and Kumar Kisalay (CSM11004) in partial fulfillment of requirements for the Degree of Master of Computer Application (MCA) under the guidance of Dr. Siddhartha S. Satapathy and Prof. S.C. Patra of NERIWALM, Tezpur.

Date: 26.05.2014  
Place: Tezpur

  
Signature of Head of Department  
Dr. Shyamanta M Hazarika  
Professor  
Department of CSE *Head*  
Tezpur University Department of Computer Science & Engg  
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## CERTIFICATE

This is certify that the work presented in the report entitled “**Improving design of the NESDI Geo portal and Development of applications for Water, Rural development and Election management**” submitted by Ishwar Chandra Behera (CSM11062) and Kumar Kisalay (CSM11004) in partial fulfillment of requirements for the Degree of Master of Computer Application (MCA) under the guidance of Dr. Siddhrtha S. Satapathy and Prof. S.C. Patra has been examined.

  
25-06-14,

(Signature)

Internal Examiner

(Signature)

Internal Examiner



(Signature)


External Examiner


**EXTERNAL  
EXAMINER**

## **DECLARATION**

We hereby declare that the project work entitled “**Improving design of the NESDI Geo portal and Development of applications for Water, Rural development and Election management**”, submitted to Department Of Computer Science And Engineering, Tezpur University has been carried out by ourselves under the guidance of **Dr. Siddhartha S. Satapathy and Prof S.C. Patra**, and was not submitted to any other institutions for award of any other degree.

Date: 26<sup>th</sup> MAY, 2014  
Place: Tezpur

  
Ishwar Chandra Behera  
CSM11062  
MCA 6<sup>th</sup> Semester

  
Kumar Kisalay  
CSM11004  
MCA 6<sup>th</sup> Semester

## ACKNOWLEDGEMENT

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

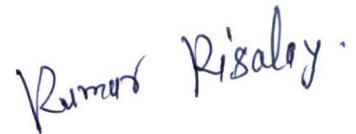
First of all, we would like to express my sincere gratitude to **Dr. Siddhartha S. Satapathy**, for his sincere and graceful guidance and support in all spheres of the project which was the prime factor of my successful completion of the project.

**Prof. S. C. Patra** Sir, whose patience we have probably tested to the limit. He was always so involved in the entire process, shared his knowledge, and encouraged us to think. Thank you Sir.

Last but not the least there were so many who shared valuable information that helped in the successful completion of this project.



Ishwar Chandra Behera



Kumar Kisalay

Date: 26<sup>th</sup> MAY, 2014  
Place: Tezpur University