



तेजपुर विश्वविद्यालय

(केंद्रीय विश्वविद्यालय)

नपाम, तेजपुर - 784 028, असम, भारत

TEZPUR UNIVERSITY

( A Central University)

Napaam, Tezpur - 784 028, Assam, India

### CERTIFICATE

This is to certify that the project work entitled “**Novel Niobium Peroxo Complexes: Synthesis, Characterization And Catalytic Activities In Selective Oxidation Of Organic Sulfides**” submitted by Gargi Sengupta, to the Department of Chemical Sciences, Tezpur University, embodies the original work done by her in the partial fulfillment of the requirements for the award of the Degree of Masters of Science, Tezpur University. The project meets all the requirements of an M.Sc. Project work.

Further, it is also certified that the project has not been submitted for any purposes elsewhere.

Place: *Tezpur*

Date: *8th May 2012*

Prof. Niranjana Karak

(Head, Department of Chemical Sciences)



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**CERTIFICATE**

**Prof. Nashreen S. Islam**  
**Department of Chemical Sciences,**  
**Tezpur University, Assam**

The work presented in the dissertation entitled **“Novel Niobium Peroxo Complexes: Synthesis, Characterization And Catalytic Activities In Selective Oxidation Of Organic Sulfides”** submitted to Tezpur University in partial fulfillment of the requirement for the award of the degree of M.Sc. in Chemical Sciences is an original work carried out by Gargi Sengupta under my supervision in Department of Chemical Sciences, Tezpur University.

The matter embodied in this project is a genuine work done by the student and has not been submitted for any other degree either to this university or to any other institute.

*N. S. Islam*  
*8.5.12*

**(Prof. Nashreen S. Islam)**  
**Signature of the supervisor**

## DECLARATION BY THE CANDIDATE

This is to declare that I have carried out the M.Sc. Project entitled “**Novel Niobium Peroxo Complexes: Synthesis, Characterization And Catalytic Activities In Selective Oxidation Of Organic Sulfides**” under the guidance of **Prof. Nashreen S. Islam**, in the Department of Chemical Sciences, Tezpur University for the partial fulfillment of the degree in **Master of Sciences in Chemical Sciences**. The thesis embodied accounts for my own findings and has not been submitted previously any where for any degree whatsoever by either me or anyone else.

Place: Tezpur

Date: 8<sup>th</sup> May 2012

  
Gargi Sengupta

## Acknowledgement

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Date: 8<sup>th</sup> May 2012

  
Gargi Sengupta

Place: Tezpur