

DECLARATION BY THE CANDIDATE

This is to declare that I have carried out the M.Sc. project entitled “Vanadyl acetylacetonate Catalysed selective oxidation of aldehydes to the corresponding acids” under the guidance of Dr. Ashim Jyoti Thakur, Associate Professor in the Department of Chemical Sciences, Tezpur University for the partial fulfillment of the degree in Master of Science in Chemical Sciences. The report embodied accounts for my own findings and have not been submitted previously anywhere for any degree whatsoever by either me or anyone else.

Date- 9.5.2012

Kiran Sharma

Kiran Sharma



तेजपुर विश्वविद्यालय

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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 “**Vanadyl acetylacetonate Catalysed selective oxidation of aldehydes to the corresponding acids**” performed by **Kiran Sharma**, in the Department of Chemical Sciences, Tezpur University embodies the original work done by him *in the partial fulfillment of the requirements for the award of degree of Master of Science in Chemical Sciences*. The project meets all the requirements of M.Sc. project.

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

Date :

(Prof. Niranjana Karak)

Head, department of Chemical Sciences

Acknowledgement

*I would like to take this opportunity to express my hearty gratitude to all those who guided and helped me in the successful completion of my M. Sc. project. It gives me immense pleasure to trace deep sense of gratitude to **Dr. Ashim Jyoti Thakur,** Associate Professor, Department of Chemical Sciences, Tezpur University, Assam for his precious guidance, help and discussions throughout the course of project without which I would not have concluded this work.*

*I offer my sincere thanks to the **Head of Department of Chemical Sciences, Tezpur University** for providing me the opportunity to undertake this project work.*

*I owe my genuine thanks to **Mr. Dhrubajyoti Talukdar, Mr. Vijay Kumar Das, Mr. Lakhi Saikia,** for lending me hands during my project work. I would also like to thank **Mr. Nipu Dutta, Mr. Raju Borah, Mr. Sankur Phukan and Mr. Rajen Borah** for helping me in the analytical techniques. I am also thankful to **Mr. Biraj Borah, Mr. Arup Chakraborty and Mr. Manoranjan Sarma** for their kind help during my project work. With much appreciation, I would like to mention the help and support that I received from my lab mate **Madhurjya.** Last but not the least; I would like to thank **Alok, Binod, Pradipda** and my entire batch mate for their valuable help during my Msc. Period.*

There is no word to express my sense of appreciation to my family members. Whatever I am and whatever I will be in future is because of their commitments to my ambition and their selfless sacrifice. They have been the utmost source of encouragement for me and I devote this dissertation to them.

Date:

Place: Tezpur

Kiran Sharma



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08th May 2012

TO WHOM IT MAY CONCERN

This is to certify that Mr. Kiran Sharma, a M. Sc. 4th semester student in the Department of Chemical Sciences, Tezpur University has successfully completed his project work on "Vanadyl acetylacetonate catalysed selective oxidation of aldehydes to the corresponding acids". The work presented in this dissertation is a bonafide work of Mr. Sharma and has been submitted to the Dept. of Chemical Sciences, Tezpur University for the partial fulfillment of degree of M. Sc. in Chemical Sciences. The work has not been submitted to any other degree or diploma of this or any other university/ institution other than mentioned.

He bears a good moral character. I wish him success in life.

(A J Thakur)