DECLARATION BY THE CANDIDATE

This is to declare that I have carried out the M.Sc. project entitled "A thorough study of the synthesis of dibenzoxanthene derivatives and rection intermediates" under the guidance of **Dr. Ruli Borah, 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.

Place: Tezpur Date: 8/05/12

Mirina/ Saikia Mrinal saikia



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 "A thorough study of the synthesis of dibenzoxanthene derivatives and rection intermediates" performed by Mrinal Saikia, 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.

Place: Tezpur Date: 8/05/12

(Prof. Niranjan Karak)

Head, department of Chemical Sciences



तेजपुर विश्वविद्यालय

(केंद्रीय विश्वविद्यालय)

नपाम, तेजपुर - 784 028, असम, भारत

TEZPUR UNIVERSITY

(A Central University) Napaam, Tezpur - 784 028, Assam, India

CERTIFICATE

Dr. Ruli Borah

Associate Professor

Dept. of Chemical Sciences

Tezpur University, Assam

The work presented in the dissertation entitled "A thorough study of the synthesis of dibenzoxanthene derivatives and rection intermediates" by Mrinal Saikia; a M.Sc. student of Tezpur University has been carried out under my supervision and is the genuine work of him. The work has not been submitted for any other degree of this or any other Universities.

Place: 8/05/2012 Date: Tetpm university

Ruli Borah)

Signature of the supervisor

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. Ruli Borah**, Associate Professor, Department of Chemical Sciences, Tezpur University, Assam for her 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 Miss Papia Dutta, Miss Parishmita Sarma, Mr. Siva Prasad Das, Miss Jeena Jyoti Boruah, Miss Sandhya Rani Gogoi, Mr Seshadri Reddy Ankireddy for lending me hands during my project work.

I would also like to thank the 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 providing me chemical during my project work.

With much appreciation, I would like to mention the help and support that I received from my lab mates Arup, Mamon, Gargi, Pinky and all my batch mates.

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.

Place: Tezpur

Mrinal Saikia