

Acknowledgement

At the first opportunity I like to express my most sincere gratitude to my respected teacher and supervisor, Dr. Mahendra Nath Roy, Head, Department of Chemistry, University of North Bengal, Darjeeling, India for his constant guidance, valuable suggestions, inspirations and constructive criticism. Without his loving care, meticulous guidance and priceless supervision, it would have been impossible for me to bring the present shape to this thesis.

I also express my deep sense of gratitude to Prof. S.K. Saha, Department of Chemistry, University of North Bengal for his invaluable assistance and continued inspiration during the course of my research work.

I am grateful to the University authority for providing laboratory facilities, especially Scientific Instrumentation Centre, University of North Bengal for helping me in my research.

It is my pleasure to acknowledge Dr. Anuradha Sinha, Smt. Mousumi Das and Shri. Vikas Kr. Dakua of our laboratory for their valuable assistance and cooperation. Specific thanks are also due to my colleagues at Nand Prasad High School (H. S), Naksalbari, Darjeeling for their valuable help and inspiration during my research period. I also like to thank Shri. Subhankar Sinha for computer imaging and editing done in my thesis.

Acknowledgement

The inspiration and encouragement that I received from my family members is most gracefully acknowledged. No word would be enough to pay back their contributions for the success of the present research work.

It is impossible for me to express my indebtedness to those authors of monographs, articles etc. from which I have collected information related to my research work. I can only hope that some measure of my gratitude is expressed by the references I have cited to their works.

I am also thankful to the Departmental Special Assistance Scheme under the University Grants Commission, New Delhi (No. 540/6/DRS/2002, SAP-1) for financial and instrumental support in order to continue my research work associated with this Ph. D. thesis.

March-2007

Biswajit Sinha

Biswajit Sinha

Research Scholar

Department of Chemistry

North Bengal University

e-mail: biswajitsi2006@yahoo.co.in