

Acknowledgement

The research work associated with my thesis was carried out by me at Department of Chemistry, University of North Bengal, Darjeeling-734013, India.

At first I feel tremendously excited and fortunate enough while expressing my deepest sense of gratitude and inner sentiments to my teacher and supervisor, Dr. Mahendra Nath Roy, Reader in Physical Chemistry, University of North Bengal, Darjeeling. He deserves my thanks because he has not only guided me during the completion of research work but also motivated me, encouraged me and for his being dynamic and mesmerizing one. I am deeply indebted to him for his keen interest, strong motivation, constant encouragement and sympathetic consideration. His subtle guidance, advice and suggestions have always helped me to think me positively and remain optimistic. The fruitful scientific discussions with him furthered my keen interest in Chemistry. He gave me the freedom to pursue an interesting research as well as trusted me often times more than myself and never let me get out of his office without a positive thought. I am fortunate to have had an opportunity under him. His presence in my life is very significant at times and will remain so throughout my life. Without his loving care, scrupulous guidance and precious supervision, it would not have been possible for me to bring the present contour to this thesis. I shall ever remain grateful to him.

I also express my profound sense of gratitude to all of my respected faculty members and thanks to the non-teaching staff, Department of Chemistry, University of North Bengal for their helpful assistance and continual inspiration during the course of my research work.

I am grateful to the University authority for providing library and laboratory amenities, especially Computer Centre and University Scientific Instrumentation Centre (USIC) for helping me in my research.

My special thanks are also due to Dr. Biswajit Sinha, Sri. Radhey Shayam Sah, Miss Rajani Dewan and Sri. Pran Kumar Roy of our research laboratory for their valuable assistance and cooperation during my research work.

It is impossible for me to express my gratitude 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 would like to acknowledge my thanks to my parents, sister and brother in law for their ceaseless inspiration, sincere help, constructive suggestion and whole-hearted cooperation in order to complete the work associated with my thesis and keeping me aloof from the family responsibilities

I shall be failing in my duty if I do not express my deep sense of gratitude to my friends and colleagues of K.M.N.H.S for their constant encouragement and self-belief

during my research work. I am also grateful to my best beloved friend , Ritika for her great forbearance, understanding, moral support and greatful sacrifice in shaping my Ph.D thesis in the present form.

Finally, I would also like to record my thankfulness to the Departmental Special Assistance Scheme under the University Grants Commission, New Delhi (No.F 540 / 27 / DRS / 2007, SAP-1) for financial and instrumental assistance in connection with my research work.

Prasanna Pradhan
20/10/2009.

Prasanna Pradhan

Research Scholar
Department of Chemistry
University of North Bengal
Darjeeling - 734013, INDIA

