ACKNOWLEDGEMENT

I take this opportunity to offer my sincere gratitude and thanks to my supervisors in the Department of Chemistry, University of Calcutta, for their proper guidance throughout the entire work and providing laboratory facilities. Without their help this work would have not been possible. I am grateful, not only for their guidance, but also for their emotional support which I received during hard times.

I am very much grateful to Late Professor (Mrs.) Asima Chatterjee for being a constant source of inspiration and moral support throughout the years, but unfortunately she passed away much before the preparation of this thesis.

My sincere thanks are due to Dr. Suvra Mandal, Department of Chemistry, National Research Institute for Ayurvedic Drug Development, Kolkata, for her helpful discussions.

I am also thankful to Dr. Manoj Kar, Department of Biochemistry, Nil Ratan Sarkar Medical College, for helping me to carry out the biochemical studies and also for the clinical application of the active constituents on psoriasis patients.

I gratefully remember, Late Dr. Golam Mostafa, Department of Physics, Jadavpur University, not only for his helpful discussions in carrying out the X-ray and theoretical studies but also for his blessings, encouragement and support. I am also thankful to his scholars Rajat and Ananda.

I am deeply indebted to all my teachers and colleagues of the Department of Chemistry, University of Calcutta, for their constant support and help.

Sincere thanks are accorded to all my senior colleagues in our laboratory.
The author is thankful to Mr. P. Ghosh and Mr. J C Ghosh, Mr. S. Chatterjee and Mr. S. Bhowmik, Organic Instrumental Laboratories, Centre of Advanced studies on Natural Products including Organic Synthesis, Department of Chemistry, University of Calcutta, for recording the spectra.

The author is also thankful to Professor Thierry Prangé, Université’ Paris Descartes, France, and Mr. Partha Mitra, Indian Association for the Cultivation of Science, Jadavpur, for X-ray Crystallographic Analysis.

I am deeply indebted to the University Grants Commission, New Delhi for their financial assistance throughout my research work.

I express my deep feeling of gratitude to my parents, Dr. J. P. Ghosh & Mrs. N. Ghosh and all my family members for their utmost care, affection, endless patience, blessings and constant support to cross all the hurdles of my life.

Finally, I am grateful to my dear son, Srijan Das, for being a constant source of moral support to me throughout my research work and also for his co-operation and understanding which enabled me to stay away from him while working in the laboratory.

Last, but not the least, to all the persons, who suffered a lot to make me competent enough for this moment, I express my deep feelings of gratitude.

(ANINDITA GHOSH)

Department of Chemistry
University College of Science and Technology
92, Acharya Prafulla Chandra Road
Calcutta- 700 009