ACKNOWLEDGEMENTS

It is an honor for me to express my deep sense of gratitude to **Prof. H. D. Revanasiddappa**, Professor in Department of Chemistry, University of Mysore, Manasagangotri, Mysuru, whose insightful guidance, constant encouragement and unstinted support have been an inspiration to me. His enthusiasm and patience helped me a lot during my studies.

I owe my deepest gratitude to UGC-NEW Delhi, for the award of Junior Research Fellowship.

I thank Prof. Y. B. Basavaraju, Chairman and Department of Studies in Chemistry and chairman, BOS in Chemistry for his continuous support during my research period.

I am also very grateful to the Doctoral Committee Members, Prof. Nagaraja Naik and Dr. K. N. Mohana, Department of Studies in Chemistry, University of Mysore, Mysuru, for their support and encouragement.

I am highly grateful to Prof. K. S. Rangappa, Prof. D. Channe Gowda, Prof. K. Basavaiah, Prof. S. Ananda, Prof. K. M. Lokanath Rai, Prof. S. Shashikanth, Prof. G. Nagendrappa, Dr. Basappa, Dr. M. P. Sadashiva, Dr. B. S. Priya, Dr. K. Mantelingu and non-teaching staff of the Department of Studies in Chemistry, University of Mysore, Mysuru for their cooperation during my stay in this Department.

I sincerely thank the Institution of Excellence, Vijnana Bhavan, Manasagangotri, Mysuru for providing me the necessary instrumentation facilities.

I am extremely grateful to SAIF, IIT-Bombay for providing EPR spectra for my research work.

I gratefully acknowledge for the assistance and help that is beyond measurement from my research colleagues; Dr. Shivakumar L., Dr. Prashanth M. K., Dr. Deepakumari H. N., Dr. Madaiah M., Dr. Mallegowda S. M., Ms.
Savithri K., Mr. Prakash, Mr. Ajay Kumar, Ms. Disha Sharma and Ms. Manjushree of Department of studies in Chemistry, University of Mysore.

I whole heartedly thank my friends, Dr. Vinay Kumar K. S., Dr. Ashok B, Dr Kumar Naik K. H., Dr. Pradeep Kumar C. B., Dr. Honnur Krishna, Dr. Lohith G. K., Dr. Chandra and Dr. Avinasha P for their encouragement and innumerable help during my research work.

Words are inadequate to express my gratitude to my beloved Mother and Father who have been the constant source of inspiration to carry on the research and also for their fervent prayers and efficacious blessings in my endeavors. I extend them my acknowledgement with deep sense of appreciation the indispensable aid and encouragement for the love and support received from my parents.

My special thanks to my sister Mrs. Komala B. C., Brother-In-Law Mr. Nagendra and my brother Mr. Shivakumar B. C., for their warm and lovely encouragement, they not only tolerated the occupational agonies but also for serving as my keenest critic of my personal life as a whole.

I profusely thank Manish Computers for the neat processing of this thesis and also for their cooperation and support.

I could not end this preface without an acknowledgement to number of authors whose work have been freely consulted, while writing this thesis.

Finally, there are many faculty colleagues, friends and student both in Chemistry Department and elsewhere, who encouraged and helped me during the period of this investigation and I hope they will accept my sincere thanks individually and collectively for all they did.

B. C. Vasantha Kumar