ACKNOWLEDGEMENTS

I am immensely pleased to place on record my gratitude to research supervisor, Dr. T.V. Venkatesha, Reader, Department of Chemistry, Kuvempu University, Shankaraghatta, for his invaluable, meticulous and untiring guidance, moral support, advice and constant encouragement.

I am extremely thankful to Dr. V.P. Vaidya, Chairman, Department of Chemistry and Dr. Vasanth Kumar Pai, Chairman, Department of Industrial Chemistry. I express my sincere thanks to Professor B.S. Sherigara, Dean of Science and Technology, Department of Industrial Chemistry and Professor P. Vasudeva Nayak, Department of Chemistry, Kuvempu University, Shankaraghatta, for providing laboratory facilities during the course of work.

I express my sincere thanks to Dr. Y. Arthoba Naik, Senior Lecturer, Department of Chemistry, Kuvempu University and Dr. S.K. Rajappa, Lecturer, Department of Chemistry, Kalpataru Science College, Tipatur, for their valuable suggestions and encouragement during the course of my Ph.D. work.

I am thankful to the teaching faculty members Dr. J. Keshavayya, Dr. H.S. Bhoja Naik, Dr. K.M. Mahadevan, Department of Chemistry and Industrial Chemistry, Kuvempu University for their suggestions during the course of work.

I would like to express my heartfelt thanks to research scholars, non-teaching staff of Chemistry and Industrial Chemistry Departments, Library staff of Kuvempu University and all my friends for their encouragement and support.

My special thanks to Dr. S.R. Murali, Professor of Chemistry M.E.S. College, Bangalore, Dr. R. Prakash Kumar, Professor of Chemistry, S.J.R.C. College, Bangalore, Dr. Eswarappa, Professor of Chemistry, Sir M. V. College, Bhadravathi and Dr. K. Prashantha, Research Associate, Department of Metallurgy, IISc., Bangalore, for their encouragement during the course of my Ph.D. work.
I express my debt of gratitude to Professor G.M. Basavaraj, Vice-President and the members of Management of S.J.V.P.V. Peeta, Harihar, Professor K.G. Gurumurthy, Principal of S.J.V.P. Degree College, and Professor B.L. Kore, Principal of S.J.V.P. P.U. College, Harihar for their encouragement and co-operation.

My sincere thanks to Professor P. Sudhamshumouli, Head of Department of Chemistry, Professor E. Rajanna, Sri. J.S. Prakash, Lecturer, Department of Chemistry, and teaching faculty of other subjects, non-teaching staff, Library staff of S.J.V.P. College, Harihar for their encouragement.

I express deep sense of appreciation to my wife Smt. Sudha and sons K. Naveen and K. Vinay who have sacrificed their rightful time and encouraged me during the course of this work.

I express my sense of heartfelt respects and gratitude to my parents who are a constant source of inspiration in undertaking research work.

I finally thanks to T.H. Lokesh, Proprietor, Kavya Computer Centre, Shankaraghatta, for neat work in preparing this thesis.

(K.G. KARIYANNA)