Its indeed a great pleasure for me to express deep sense of gratitude to my beloved teacher and research supervisor Dr. K. M. Hosamani, professor of Organic Chemistry, P. G. Department of Studies in Chemistry, Karnataka University Dharwad for his constant encouragement, inspiration and valuable guidance throughout my research work. I consider myself very fortunate to carry out research under his supervision.

I sincerely thank Prof. S. T. Nandibewoor, Chairman and Prof. M. I. Aralguppi former Chairmen P.G. Department of Studies in Chemistry, Karnataka University, Dharwad, for providing me the necessary facilities to carry out my research work.

I sincerely extend my thanks to M. V. Kulkarni, Prof. N. B. Mallur, Prof. V. K. Revankar, Prof. K. B. Gudasi, Prof. J. Seetaramappa, Prof. S. A. Patil, Prof. S. A. Chimatdar, Dr(Mrs). L. S. Manjeshwar, Dr. M. Y. Kariduraganavar, Dr. I. M. Khazi, Dr. R. R. Kamble and Dr. Lokesh Shastri for their encouragement during my course of research work.

I would like to place on record my special thanks to -

- Prof. S.P. Hiremath, Former Vice-Chancellor, Kuvempu University, Shankaraghatta, Shimoga District.
- Prof. S.B. Halliguddi, (Retired Professor) Catalysis Division, National Chemical Laboratory, Pune.
- Sri. A.C. Chakalabbi, Advocate, High Court, Dharwad.
- Dr. S.N. Ashtraputre, Former Principal of J.S.S. College, Dharwad and Syndicate Member of Karnatak University, Dharwad.
- (Late) Prof. V.V. Badiger, (Late) Prof. G.S. Puranik, Prof. C.S. Mahajanashetti, Prof. B.R. Havinal, Prof. L.D. Basangoudar, Prof. C.D. Daulatabad, Prof. G.S. Gadaginamath, Prof(smt). B.V. Badami and Prof. M.L. Budni, Retired Professors of Chemistry Department, Karnatak University Dharwad.
- Prof. S.Y. Ambekar, (Retired Professor) P.G. Department of Studies in Chemistry, University of Mysore, Mysore.
- Prof. T.M. Aminabhai, (Retired Professor) Center of Excellence in Polymer Science, Karnatak University, Dharwad.
- Mr. I.P. Kadive, (Retired) and other staff members of USIS, Karnatak University.
I am extremely thankful to Dr. Kishor G. Bhat, HOD and Professor, Department of Microbiology, Maratha Mandal Dental College, for pharmacological screening of my samples.

I would also like to thank the people who worked together with me in various fields and projects during the past years. Many of my colleagues should be mentioned here. Thanks especially to Miss. Ramya V. Shingalapur, Prof. V.B. Hiremath, principal P.C. Jabin College Hubli, Prof. M.H. Hugar, Luqman Pharmacy College, Gulbarga, Mr. H.M. Aravinda, Dr. R.S. Harisha, Miss. C.S. Kavittha, & Mr. Irfan Shaikh, for all inspiring discussions, their advice and their willingness to share their bright thoughts with me, which were very fruitful for shaping up my ideas and research.

I would also like to thank my senior research colleagues Dr. C.D. Bathula, Dr. S.K. Nataraj and Dr. Ramesh Babu. Also, I record my sincere thanks to all research scholars, Department of Chemistry, Dharwad.

I gratefully acknowledge the prayers of my Beloved parents, whose blessings and moral support have made this endeavour of mine, a reality. I cannot forget the sacrifices made by my mother Smt. Rukamini, father Shri. Sangappa and brother Mr. Suresh MBBS, Tata Consultancy Service Bangalore.

I thank the non-teaching staff of P.G. Department of Studies in Chemistry for their help and good wishes. I take this opportunity to thank all of them and also those who have helped me in completing this research work.

I am thankful to Department of Science and Technology (DST), New Delhi (Ref. No: SR/51/OC-08/2005 Dated 05-09-2005) for providing me financial assistance as Junior/Senior Research Fellowship.

- R.S. Keri