ACKNOWLEDGEMENT

Firstly, my gratitude's are due to Prof. K. M. Hosamani, for his kind and supportive supervision, valuable ideas, and timely suggestions. I am grateful to him for taking every care and encouragement extended throughout my research.

I express my deep and sincere thanks to Prof. S. T. Nandibewoor, Chairman, Department of Chemistry, KUD, for providing me the necessary facilities to carry out my research work. My special thanks are also due to Prof. M.V. Kulkarni, Dr. I. M. Khazi, Prof. S. A. Patil, Prof. Smt. L. S. Manjeshwar, Prof. V. K. Revankar, Prof. K. B. Gudasi, Dr. J. S. Seetharamappa, Prof. N. B. Mallur, Prof. S. A. Chimatdar, Prof. M. Y. Karidurganavar, Dr. R. R. Kamble and Dr. L.A. Shastri and other teaching staff members, for their constant encouragement.

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

Prof. H. B. Walikar, Vice-Chancellor, Karnataka University, Dharwad. Prof. S.C. Puranik, Dean of Science Faculty, Department of Geology, KUD. Prof. S.P. Hiremath, Former Vice-Chancellor, Kuvempu University, Shimoga. Late Prof. G.S. Puranik, Late Prof. V. V. Badiger (Former Registrar), Prof. C.D. Daulatabad (Retired Professor), Prof. G.S. Gadaginamath (Retired Professor), Department of Chemistry, Prof. N.M. Badiger, Department of Physics, Dr. G.K. Badiger, Department of English, GFG College, B. Ishwar, Dept. of Computer Science and Shri.A.C. Chakalabbi, Advocate, Karnataka High Court (Circuit Bench), Dharwad.

My sincere thanks are to Prof. P. Vasudev Nayak, Prof. V. P. Vaidya, Prof. J. Keshavayya, Prof. T. V. Venkatesha, Dr. Y. Arthoba Naik, Dr. K. M. Mahadevan, P. G. Department of Studies in Chemistry, Jnana Sahyadri, Kuvempu University, Shimoga, who has a great impact in my life during the PG studies and they are acknowledged for being an inceptor of this investigation.

I also acknowledge to Dr. M. N. Kumaraswamy, Dr. A. Srinivasa, Dr. A. Sudhakara and Dr. D. L. Roopa for their valuable suggestions and moral support through out my career.

Mr. I. H. Kadlimatti and Mr. Syed Azzemuddin for recording IR and NMR spectra, Smt. R. V. Murgod for doing GC-MS and other staff members of USIC, K.U. Dharwad.

I would also like to thank the people who worked together with me in various fields and projects during the past years. Thanks are especially to Dr. R. S. Harisha, Mr. I. N. Shaikh, Mr. M. H. Hugar, Shri. V. B. Hiremath and Mr. D. S. Reddy for all
inspiring discussions, their advice and their willingness to share their scholarly thoughts with me, which was very fruitful for shaping up my ideas and research. I also like to thank my senior research colleagues Dr. V. B. Jadhav, Dr. Ravi Lamani, Dr. Prakash Gouda Avaji.


Words fail me in attempting to express my feelings and thanks to Pradeep, Sheela and Padma who have always stood by me in difficult times during my research and helped me to build my confidence.

I also thank Sri Mahaganapati Computers for compiling my thesis work very neatly.

My parents are a big support in my entire creative endeavor. I am grateful to my father K. N. Chandrashekharachar, mother Sarojamma and brother Yogesh Achar C. S for all their support and encouragement showered on me to pursue my studies even in the times of difficulties. Also, I extend my sincere gratitude to my sisters Kumuda, Kanakalakshmi, Savitha and brother Ashwin Vishwakarma, brother in-law Manjunath, Ananth Kumar and my niece Chetu, nephews Karthi and Adi for their unconditional support.

Finally thanks to the UGC, Research Fellowship in Science for Meritorious Students (RFSMS), New Delhi for their financial support.

Dharwad
26th July, 2011

Kavitha C. S