Acknowledgements

I express my heartfelt gratitude to the most important personality, who is the core of my work is my impressive teacher Dr. I.M. Khazi, Lecturer of Organic Chemistry, P.G. Department of Studies in Chemistry, Karnataka University, Dharwad, who has encouraged and inspired me in taking this field and taught the fundamentals of research. I consider myself very fortunate to be his student forever.

I record my sincere thanks to Prof. M.L. Budni, Chairman, P.G. Dept. of Studies in Chemistry, Karnataka University, Dharwad, for providing the facilities to carry out this investigation. I also wish to express my gratitude to Prof. V.B. Mahale and Prof. C.D. Daulatabad, former chairmen for their timely help and cooperation.

I owe my special debt of gratitude to Dr. C.S. Mahajanshetti, Professor of Organic Chemistry (Rtd.) and former chairman, P.G. Dept. of Studies in Chemistry, Karnataka University Dharwad, for his encouragement and unreserved help.

I express my heartfelt thanks to Dr. (Smt.) B.V. Badami, Dr. M.V. Kulkarni, Dr. K.M. Hosamani, Dr. S.T. Nandibewoor, Dr. N.B. Mallur, Dr. V.K. Revankar, Dr. K.B. Gudasi, Dr. S.A. Patil, Dr. J. Seetaramappa, and Dr. S.A. Chimatdar, P.G. Department of Chemistry, Karnataka University, Dharwad.

I am extremely thankful to Prof. A. K. Gadad, JNMC, Belgaum for the pharmacological screening of the compounds.

I take this opportunity to sincerely thank my research colleagues, Mr. H.Y. Merwade, Mr. G.D. Kolavi, Mr. V.S. Hegle and Mr. R.S. Lamani for their concern and help during the years of my research.

I would like to express my thanks to Dr. B.M. Swamy, Mrs. Shubda, Miss Anuradha Bhat and Dr. Sunil Morey P.G. Dept. of Studies in Biochemistry K.U.D. for their help in carrying out the antimicrobial analysis of my compounds.

On this threshold of my achievements only thing now remains is to be grateful to my mother Smt. Ratna and father Shivappa whose blessings, sacrifices and moral backing made this endeavour of mine a reality.

I owe special gratitude to my elder brother Viresh and sister in law Pooja for their uncompromising support. I acknowledge with sense of everlasting sweet memories to my sister Shilpa and brother in law Dr. Nagaraj Kubsad for their valuable help and encouragement in attaining my goal. I thank my uncle Shri Rajeshkhar Kalyanshetti, aunt Jayashree Kalyanshetti, Rohit and Shirin for their moral support.
It is indeed a pleasure to recall my memory of some of my classmates like R.B. Patil, R.C. Belaladavar, S.C. Chougala, Dr. R.S. Pattanshettar, Dr. R.T. Mahesh, N.D. Patwar, U.B. Hunugund, PR. Shettar, B.V. Chabbi, S.V. Chinta, S.A. Biradar, Dr. S.R. Pujar, A.M. Samant, G.N. Kharvi and C.P. Hemagirimath. I am very much thankful for their support.


I also express my thanks to Dr. R.R. Kavali, Dr. J.R. Kavali, Dr. G.N. Neelagund, Dr. M.M. Melavanki, Dr. B.G.Gouda, Dr. U.B. Gangadarmath, Dr. B.S. Nagralli, Dr. S.G. Kumbar, Dr. P.D. Pol, Dr. D.C. Bilehal, Dr. R.M. Kulkarni, Dr. H.S. Ramesh, Dr. A.S. Patil, Dr. M.G. Bhovi, Dr. D.S. Donawade, Dr. M.D. Kurkuri, Dr. M.D. Ghate, Dr. Ajaz Khan, Dr. Uday Muddapur, Dr. Preeti Tallur, Dr. Veena Magadi and Dr. Raghavendra Deshbagh.


I express my deep sense of gratitude to respected Mrs. S.I. Khazi for her affection, blessing and constant encouragement during my research work.

I wish to record my sincere thanks to the staff, USIC, K. U. Dharwad, IISc Bangalore, CDRI Lucknow, RSIC Chandigarh and IICT Hyderabad for their help in getting analytical and Spectral data.

Lastly I wish to thank all those who helped me directly or indirectly to complete this work.

Rajesh S. Koti