ACKNOWLEDGEMENTS

Any work can be successful only by the blessings of the almighty. I would like to thank the God for giving me the mental and physical strength that I needed to accomplish this task.

I would like to express my profound appreciation and sincere thanks to my tutelary Dr. K.N. Amruthesh, Asst. Professor (Senior) & Principal Investigator for his exemplary, which enabled my research efforts to come in shape with meaningful conclusions. His concern, inspiring guidance and wise counsel always encouraged my enthusiasm in research. His keen interest in my progress and scholastic arena would have been unrequited if I had not heed his remarks of excellence.

I feel highly privileged to extend my gratitude and cordial thanks to my Co-Supervisor Dr. K.A. Raveesha, Professor and Chairman, Board of Studies in Botany for his learned supervision, constructive suggestions, counselling, cooperation during my research career.

I wish to express my sincere thanks to Dr. G.R. Janardhana, Professor & Chairman, Department of Studies in Botany, University of Mysore for providing the facilities.

I take this opportunity to express my gratitude to Prof. M.S. Sudarshana, Prof. Shobha Jagannath, Prof. S. Leelavathi, Mr. K.M. Jayaramaiah, Dr. M.S. Sharada, Dr. Rajkumar H. Garampalli and Dr. M.S. Nalini, Department of Studies in Botany, University of Mysore, for their cooperation and encouragement during my work in the Department.

My thanks are also due to Prof. G.R. Shivamurthy and Prof. K.B. Sadananda, Taxonomists, for their help in identifying the plants and timely suggestions.

My special thanks are due to Prof. K.M. Lokanatha Rai, Department of Studies in Chemistry, for useful suggestions and helpful discussions in characterization of the compounds which is vital part of the thesis.

I also profusely thank the Principal, Maharanis Science College for Women, Mysore, Prof. M.L. Vijayakumari, HOD, Department of Botany, Dr. Shivalingaiah, Mr. N.S. Suresh, Prof. A. Nagaraju, Dr. C.R. Rekha, Dr. C.R. Vijay, Dr. S.P. Purushotham, Dr. C. Hemavathy, Dr. M.P. Raghavendra and all my colleagues of Department of Botany and Microbiology, Maharanis Science College for Women for their timely help and encouragement for the perusal of this work.

I also take this opportunity to thank my brother Prof. L. Mahesh Bilwa Department of Geology, University of Mysore, Dr. J. Sudisha, PDF- JSPS, Dept. of Biological and Environmental Sciences, Yamaguchi University, Japan, Mr. K.K. Sampath Kumar and Dr. P. Hari Prasad for their help during my research work.
I gratefully acknowledge for the assistance and help that is beyond measurement, to my research colleagues Dr. M.C. Thriveni, Mr. M. Murali, Mr. D.L. Shrisha, Mr. Nagabhushan, Mr. Akilhesh Bhatt, Dr. Prakasha, Mrs. S. Manjula, Mrs. S.R. Mythrashree, Mrs. Aparna Srivasthava, Mrs. G.K. Puneetha, Ms. N. Anupama, Mrs M.M. Kalpashree, Mrs. S.N. Lavanya, Mrs. M.S. Abhayashre, Ms. P. Rajeshwari and Ms. G.M. Sindhu for their encouragement and support during my stay in the laboratory.

I sincerely thank Dr. K.B. Vinay, Dr. K. Shivaprasad, Mr. L. Shivakumar, Mr. M.K. Pranath, Mr. M. Madaiah, Mr. S.M. Mallegowda Department of Chemistry, for their co-operation throughout my research work.

Words are inadequate to express my gratitude to my beloved husband Dr. H.D. Revanasiddappa, Professor of Chemistry, University of Mysore, Mysore who has been the constant source of inspiration, love and support for the perusal of the research work. I also express my heartfelt thanks to my children R. Rajath Heggade and R. Raksha for the love and support at their capacities.

I express my gratitude to my beloved parents Sri. Basavegowda and Mrs. Sulochana and mother-in law Mrs. Kempamma for their fervent prayers and efficacious blessings in all my endeavours.

My special thanks to my sister Mrs. B. Rekha and brother-in law Sri. Nagaraja, brother Mr. B. Harish and sister-in law Mrs. Nagarathana, Brother-in law Mr. Shankar and co-sister Mrs. Shivamma and sister-in law Mrs. Renukamma whose hands always raised to pray for my success.

I wish to thank all my good friends Mrs. P. Hemalatha, Mrs. M.S. Shobha, Dr. Salma Khanum, Mrs. Sandhyarani, Ms. H.C. Latha and many others for their care and moral support.

I am highly indebted to the University Grants Commission, New Delhi, Department of Collegiate Education, Government of Karnataka and College Development Council, University of Mysore for the award of Teacher Fellowship under the Faculty Improvement Programme of UGC (XI plan) for granting academic leave and financial assistance during the period of my research work and encouragement given to me to purse higher studies.

My special thanks to Non-teaching staff, gardeners and also Department of Studies in Botany, University of Mysore for providing the facilities to purse my research work.

Lastly, I extend my sincere gratitude for all those who directly and indirectly helped me in various ways throughout the course of my journey towards producing this thesis.

B. JAYALAKSHMI