Acknowledgements

I express my deep sense of gratitude to my learned Research Supervisor Dr. C. Sebastian Rajasekaran, Reader, Department of Botany, Bishop Heber College, (BHC) Tiruchirappalli for his valuable guidance, brotherly advice and support and for the unflinching encouragement to complete my research work successfully. I am indebted to him more than he knows.

I am greatly indebted to Dr. M. Marcus Diepen Boominathan, Principal, and the Management of Bishop Heber College for the constant support and encouragement and also for providing me all facilities during the course of my research work.

I am very much indebted to Prof. D. Prabakaran, Vice-Principal and HOD, Dept. of Botany, BHC for the constant encouragement and for all the support given to me in my carrier and research work.

I extend my heartfelt thanks to Dr. C. Ravichandran, Head of the Department and to Prof. A. Alagappa Moses (SG) Lecturer of the PG and Research Dept. of Environmental Sciences, BHC, Tiruchirappalli for rendering kind co-operation and encouragement to my research work.

It is my duty to express my sincere thanks to my learned colleagues Dr. F. Samuel Christopher, Reader, Dr. Mrs. S. Kalavathy, Reader, and Prof. Mrs. Akkammal Joha, Lecturer (SG) of the Dept. of Botany and Prof. A. Joha Devasitham, of English Department and Dr. G. Gnanaraj of Commerce Department, BHC for spending their precious time going through my research work at various stages giving useful expertise and suggestions and also for the constant and continuous support and for blessing me with pleasant atmosphere in the work place.

I express my heartfelt thanks to Dr. P. Baskaran, Post Doctoral Research fellow, Israel who was with me all through, sharing all his experience and expertise for the completion, compilation and for nourishing my work. Bas, I am grateful to you in every possible way and hope to keep up our relationship in all the future activities.
I am highly indebted to Dr. P. Velayutham, Senior Lecturer in the Dept. of Botany, Govt. Arts College, Karur and acknowledge with sincere gratitude for rendering all possible support and facilities to carry out my research work and for shaping up the final version of my thesis meticulously and artistically. I also express my sincere thanks to His Wife and Children for generously sparing him with enormous patience.

I wish to express my sincere and heartfelt gratitude to Dr. K. Ravikumar, Chief Botanist and to Dr. R. Murugan, Research officer, FRLHT, Bangalore for their timely help and for all the cordial encouragement over the years and I sincerely value their association.

It is my pleasure to pay tribute to all my Professors in St. Joseph’s College (SJC) and Madras Christian College and especially Dr. D. Irudaya Arockiasamy, Head of the Dept of Botany, SJC and Doctoral committee member for all the inspiration and for fruitfully shaping up my ideas in research.

I would also like to express my sincere thanks to Dr. Mrs. Ramya, former Head of Dept. of Biotechnology, BHC and to Dr. Mrs. Anusha Baskar, Coordinator of Dept. Biotechnology and to Ms. V.G. Vidya, Lecture in the Dept. of Biotechnology, BHC for rendering and for sharing their expertise for the completion of my research work.

I record my sincere and special thanks to the to be Doctors A. Vijayan and G. Jahir Hussain for being with me almost all through my research work, sharing their time, energy and their love during the course of my research work.

I also express my sincere thanks to Dr. P. Jayaraman, Director of Plant Anatomy Research Centre, Chennai for providing me facilities to carry out anatomical studies and Dr. S. Kumaravel, Senior Scientist, PPRC, Tanjore for providing me the GC-MS facilities for my thesis work.

My sincere appreciation and thanks goes to Ms. Ilamathy, Ms. Parimala and Mr. John, budding Biotechnologist for involving them selves in my research work.

My special thanks are due to Dr. D. Vijai, Lecturer, Dr. Fakrudeen of Bharath Arts and Science College, Thanjore and Dr. A. Chandramohan, Lecturer in the P.G and Research Dept. of Environmental Sciences, BHC, Dr. Mahesh of SJC, Tiruchirappalli and Mr. C. Malaimuthu, Assistant Research Officer, TNPL, Karur for the valuable association during the course of this study.
Let me say a word of hearty thanks to Mr. S. Manikandan, and Mr. Rex Inigo of the Department of Botany, for their sincerity and for the loving care and for the timely refreshments during long and tiring hours of work and also to Mr. M. Subramanian, Lab technician, and Mr. M. Vadivel, lab assistant, Department of Biotechnology, BHC for taking care of all my needs in the lab.

My sincere thanks are also due to the Botanical Survey of India, Coimbatore for identifying and confirming the plant species and the Tamilnadu Forest Department for permitting me to carry out the study in Indira Gandhi Wildlife Sanctuary, Pollachy.

I also acknowledge the University Grants Commission, New Delhi for sanctioning the financial aid through Faculty Development Program for my research work.

I joyfully remember every body in my family especially my wife and my daughters Ann and Jane, My Dad, Mom, Uncle, Sisters and In laws and all my relatives and all my friends for the unending love, care and understanding. It is my pleasure to express my cordial and heartfelt thanks and my love to all of you.

Finally, I would like to thank every body who was important to the successful completion of thesis, as well as express my apology for not mentioning the names personally one by one.

with Love

V. Anand Gideon