Acknowledgement

I express my sincere gratitude to my supervising guide Dr. D. Sheela, Associate Professor, Department of Botany, St. Teresa’s College, Ernakulam for her valuable guidance and timely suggestions. Her personal advice and encouragement inspired me a lot, and helped me in the successful completion of my work.

I also wish to place on record my deep sense of gratitude and obligation to Dr. C.I. Jolly, Scientific Advisor, Kerala Ayurveda Ltd. Aluva and Amala Ayurvedic Hospital and Research Centre for his supervision and sustained interest in my work.

I am grateful to the Management, Dr. Sr. Annie Kuriakose, the Principal, Sr. Anjaly, the Superintendent, St. Joseph’s College, Irinjalakuda, for their valuable support rendered to me.

With immense gratitude I wish to thank Dr. Sr. Tresa, the Principal, Sr. Christabelle, the former Principal, St. Teresa’s College, Ernakulam. I sincerely thank the faculty and staff, Department of Botany, St. Teresa’s College, Ernakulam for their help and co-operation throughout the study.

I am grateful to University Grants Commission (UGC) for extending financial support as Teacher Fellowship under Faculty Development Programme during the eleventh plan period.

I am immensely thankful to Dr. Anil Kumar, the Executive Director, Dr Sarala Samuel, Manager R&D, Kerala Ayurveda Ltd, Aluva, for providing me with all the necessary facilities to carry out this work. I sincerely thank Miss. Remya, Miss. Rshmi, Mr. Santhosh, Chemists and Mr. Manu, Microbiologist, R&D Department, for their help and assistance during the course of the study.

A special word of thanks to Dr. K. J. Joseph, Reader (Rtd.), Marine Biology division, School of Marine Sciences, Cochin University of Science and Technology, Ernakulam for his encouragement and support. My thanks are due to Dr. Suseela Mathew, Senior Scientist, Biochemistry and Nutrition, CIFT Cochin. I am
immensely thankful to Dr Raghu K. Gopal, Principal Scientist, NIIST, Thiruvananthapuram. I extend my heartfelt thanks to Mr. C.A. Mathew, Unit Chief, Medicinal Plant Division, Agriculture University, Mannuthy, Dr. C.N. Sunil Associate Professor, S.N.M. College, Maliankara and Dr. T.D. Xavier, Professor in Statistics St. Thomas College, Thrissur.

The library facilities extended by the Agriculture University, Mannuthy, Mahatma Gandhi University, Kottayam, Kerala Forest Research Institute, Peechi, National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram and Calicut University, Thenjipalam, Calicut are gratefully acknowledged.

I would also like to express my sincere thanks to Mrs. Philomina Jose, the former H.O.D., Dr. Beena Jose, the present H.O.D., Dr. Egy T. Paul, Sr. Maria George, Mrs. Roselin Sajeev and Mrs. Sicily Varghese, my colleagues for their motivation and encouragement. I also remain thankful to Dr. Tessy Paul, Christ College, Irinjalakuda. and Mrs. Neena Unnikrishnan St. Teresa’s College, Ernakulam, my fellow-scholars for their valuable support rendered to me in this regard.

I am deeply indebted to my beloved parents, my husband Georgy George, our children Shwetha, Ashwin, Sneha and our son-in-law Joe Joseph Thekkel for their encouragement, support and timely and invaluable assistance, without which I would not have completed my work.

I am very much obliged to Mrs. Jisha Joy and Mr. Binoop Kumar for their help in compiling and binding of the thesis work.

This work has been enriched by the generosity and timely assistance of a number of people. I thank them all.

Above all I bow my head before GOD ALMIGHTY for the never-ending blessings showered on me to carry out this work successfully.

Meena Thomas Irinjan