First and foremost, May I place on record my profound owe and gratitude to God Almighty for giving me the inspiration, strength, protection, patience and blessings all throughout my research work. I acknowledge the Supreme Consciousness for enlightening my mind in the pursuit of excellence, journey of knowledge and wisdom to accomplish this work successfully.

I deem it as my golden opportunity to work under the Guidance of Dr. S. K. Sundar M. Sc., M.Phil., Ph.D. (Assistant Professor, Research Department of Microbiology, M. R. Govt. Arts College, Mannargudi). I am deeply indebted to my beloved Guide and mentor for suggesting me the scientific problem, for his inspiring resourcefulness and supervision of the entire work. This work would not have been possible without his strong motivation and untiring help, continuous support, timely admonition, strenuous effort throughout the period of my study and providing the conducive atmosphere for my work, will remain evergreen in my memory. It is under his guidance that I could successfully overcome many difficulties and learned a lot with promising innovations. The light kindled by my mentor will ever shine. Guru Devo Bhava!

With immense pleasure and heartfelt thanks I express my gratitude Dr. A. P. Majeeth Khan, Secretary, Noorul Islam College of Arts & Science, Kumaracoil for his kind concern and encouragement. I take this opportunity to owe a debt of gratitude to Dr. V. Umayoru Bhagan, Principal Noorul Islam College of Arts & Science, for providing me necessary technical facilities in his Institution, which helped and supported me a lot to complete my thesis. I express my heartfelt thanks to
Mrs. R. P. Dhanya, HOD and teaching and non teaching staff members of Department of Microbiology, Noorul Islam College of Arts & Science for their encouragement during the period of my research.

It’s my pleasure to acknowledge Dr. Paul Durai Manimozhiyan M.D (Principal ATSVS Siddah Medical College, Munchirai) for his assistance in selecting medicinal plants related to my topic.

I gratefully acknowledge Mr. R. P. Anilkumar (Librarian, Noorul Islam College) for providing me the Library facility at my disposal during my research work. I convey my thanks to the Librarians and other staff members of Manonmaniam Sundaranar University, Tirunelveli ,and St.Xavier’s college Palayamkottai, Scott Christian College, Nagercoil, St. Joseph’s College, Thiruchirapalli for their support.

It is with great privilege that I acknowledge and extend my sincere thanks to the District Medical Officers of Namakkal district for being permitted me to collect samples from various hospitals of the district. My gratitude also goes to other staff members of Cashew Export Promotion Council (CEPC) Kollam, Kerala for their technical support in GCMS analysis. I take this opportunity to extent my words of gratitude Director, Chroma Park Research Laboratory, Namakkal for providing me necessary technical support.

I fall short of words when it comes to thank my family for all they have done for me. My heartfelt gratitude to my beloved husband, Dr. R. Sumesh (Assistant Professor, Post Graduate Dept. of History, Iqbal College, Thiruvananthapuram) for his endless love, priceless, perpetual, indispensable help, support for making this event possible. I
thank them with all my heart. I also thank with love my sweet sons S. A. Shanto and S. A. Rinto for I have had to leave them many a time at home on all those days when I was away on data collection. They lightened the tensions of my academic pursuit, by sharing their love and delightful childhood. My Father Mr. Selvaraj; Mother Mrs. Usha Kumari; Father-in-law Mr. N. Raj and Mother-in-Law Mrs. N. Sumithra for their infinite and unconditional love, encouragement and tolerating my frustrations cum depressions during my hard times for building up my professional life and my sisters Mrs. Ajisha, Dr. Abisha; my brother-in-laws Er. D. T. Ray, Mr. Jickson and their family members whom I could always lean on in my life. I am thankful to Mr. Jayasingh& Femila Jayasingh for their moral support. I gratefully remember all my paternal and maternal family members, friends, my teachers and well wishers for their great support.

Last but not least, I am so grateful to the people who had helped me in one way or the other to complete the thesis a successful one with life, light, colour and vigour.

(ANUSHA S. U.)