ACKNOWLEDGEMENT

This scientific work of mine is the result of years of study, research, experimentation and hard work. Throughout the long span of time, several persons belonging to the scientific community had rendered valuable assistance to me in the material fruition of my research. In this regard I am deeply indebted to my guide Dr. M. Haridas, without the sunshine of whose guidance and patronage, I could not have accomplished this great task. I take this opportunity to express my sincere and heart felt feeling of gratitude to this great teacher and eminent personality. Dr. Shankar Shasadhar, Director of the School of Biosciences, my co-guide encouraged me in every step in the direction and the will to proceed with the work in the face of difficulties was mainly his contribution. I thank this unassuming personality on this proud occassion in my life.

I am very much indebted to Dr. P. C. Raveendran, Dr. Kurup, Dr. Latha and Mr. Jyothis Mathew for rendering me all what they can in this humble venture of mine. I owe a deep depth of gratitude to Mr. Bose, Mrs. Chellakutty and Mr. Jose in the academic section and each one in the lab, library and School of Biosciences for assisting me in their own little ways. My friends Sreekumar, Manoj, Thomas and all others had rendered valuable help to me in their own way and I thank them deeply on this occassion.

I thank the former Principal Sir Syed College, Taliparamba, Prof. M. Salim and the Principal, staff and teachers of the S.S. College for helping me in all possible ways. I also express my sincere feelings to my husband, Sherief Mohamed, for the literary touch imparted to my scientific dissertation and my children Azim, Aizel and Amitha who had been put to a lot of inconveniences in the course of my research and frequent absence from home. I thank my mother Smt. P. A. Isha for taking care of my family in my absence. I would never have accomplished this task had I not been born to late Prof. P. K. Abubaker, former Principal, S. S College who had long back kindled in me the fire of research, study and love for the plant kingdom.