ACKNOWLEDGEMENT

I have great pleasure in placing on the record my sincere thanks to Dr. S. Saravanababu, M.Sc., Ph.D., Reader in Botany, Chikkaiah Naicker College, ERODE for his unfailing guidance and constant encouragement during the course of work.

I express my deep sense of gratitude to Prof. C. Gurunathan, M.Sc., M.Phil. Head, Department of Botany, and the Principal in-charge, Chikkaiah Naicker College, Erode for providing the needed facility to complete this work.

It is pleasure to thank Dr. M. Sundara Rajan, M.Sc., Ph.D., Principal, Muthayamal College of Arts and Science, Kakkaveri, Rasipuram, Tamil Nadu and Dr. A. Sarvalingam, Reader in Economics, Chikkaiah Naicker College, Erode for their help in preparation of the thesis.

I take this opportunity to thank sincerely Dr. A. Anandha Rao, M.Sc., Ph.D., Associate Director of Research, Regional Agricultural Research Station, Acharya N.G.Ranga Agricultural University, Tirupaty for giving permission to carryout the field and pot experiment at Agricultural Research Station, Nellore (AP) and I thank the Head and Staff members of Agricultural Research Station, Nellore and the Head and Staff members of Soil Testing Laboratory, Department of Agriculture (AP), Nellore for their timely help.

My sincere thanks are due to Dr. M. Thangaraj, M.Sc., Ph.D., Associate Professor, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Combatore and Dr. C. Lakshmi Narasimhan, M.Sc., Ph.D., Dean, Faculty of Science, AVVM Sree Pushpam College, Poondi, Thanjavur (TN) for their encouragement and help in the course of the work.
My sincere thanks are due to Mrs. Thangapappa Gandhi, B.Sc., Proprietor, and all the Staff members of M/s. VISHAL BIOTECHNOLOGIES, Nellore (AP) for their kind help in vermicompost preparation.

I wish to thank the research scholars Mr. K. Murugan, M.Sc., and Mr. A. Murugan, M.Sc., and all the teaching and non-teaching staff members of Department of Botany, Chikkaiah Naicker College, Erode for their timely help.

I express my heartfelt thanks to my family members and a number of others who have helped and assisted me from time to time in this endeavor.