ACKNOWLEDGEMENTS

It is a pleasant task to express my thanks to all those who contributed in many ways to the success of this study and made it an unforgettable experience for me.

At this moment of accomplishment, I pay homage to my teacher late Prof. Dr. R. Palaniappan, Ph.D., Head (Former), Department of Microbiology, Sri Paramakalyani College, Alwarkurichi. His unflinching courage and conviction will always inspire me, and I hope to continue to work with his noble thoughts. I wish his soul roots in peace and solace in the heaven.

I am extremely indebted to my research guide Prof. Dr. G.S.Vijaya Lakshmi, M.Sc., Ph.D., Professor of Environmental Biotechnology (Retd), Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi, Tamil Nadu, India for suggesting this problem and for her constructive criticisms, able guidance, supervision, unfailing help and valid encouragement throughout the period of investigation.

I take this opportunity to sincerely acknowledge my teacher Prof. Dr. S.Ramesh, M.Sc., Ph.D., Head, Department of Microbiology, Sri Paramakalyani College, Alwarkurichi for his kind cooperation, inspiring guidance and personal attention through valuable comments during my work progress. This list is incomplete without acknowledging my Professors Dr. R.Gowrisankar, M.Sc., Ph.D., and Prof. M.Amuthan, M.Sc., M.Tech., who were the source of inspiration for me in earlier days and who taught me many things.

The road to my research started with sufficient practice at M/s. Vermi Gold, Modakkupatti, Udumal Pet Taluk, Tirupur District and gained momentum at M/s. N.K.K.P. Natural farm, Appakudal, Bhavani Taluk, Erode to whom I should be thankful for providing admirable education on vermicomposting, and building confidence in me to start my work on vermitechnology.

I owe a great deal of appreciation and gratitude to Mr. Ponpandian, M.Sc., M.Phil., Senior Microbiologist, Research and Development Laboratory, Sakthi Sugar Pvt. Ltd., Appakudal, Bhavani Taluk, Erode for helping me to carry out part of my biochemical analysis at his laboratory.
I extend my sincere thanks to Prof. Dr. R. Ragu nathan, M.Sc., M.Phil., Ph.D., Scientific Advisor, Centre for Bioscience and Nanoscience Research (CBNR), Coimbatore for helping me to carry out part of my research work at his research institute. My warm appreciations are due to all the staff members of that lab.

My special thanks go in particular to Mrs. T. Savitha, M.Sc., M.Phil., B.Ed., (Ph.D.), Assistant Professor, Microbiology Department of Tirupur Kumaran College for Women, for her valuable advice, constructive criticism and her extensive discussions on my research work which has helped me a lot. I am indebted to some of my good friends Prof. Dr. Thamarai Kannan, M.Com. Ph.D., Prof Dr. Muthu Krishnan, M.C.A, Ph.D., Mrs. P. Kiruthiga, M.Sc., M.Phil., Prof. Dr. Indira A. Jayaraaj, M.Sc., Ph.D., Prof. Dr. M. Lakshmi Prabha, and Mr. S. Chandrasekar, M.Sc., M.Phil., (Ph.D.), for their help rendered during the tenure of my work.

It’s my fortune to gratefully acknowledge the support of some special individuals. Words fail to express my appreciation to my life partner Mrs. T. Mithila Thangamariappan, M.Sc., B.Ed., P.G.D.C.A., and my daughters T.M. Kavya Lakshmi, and T.M. Haritha Lakshmi for their support, generous care, understanding, patience and motivation that helped me a lot to work for hours together tirelessly. Last but not least, I would like to pay high regards to my beloved blood brothers Mr. K. Ganesha Moorthy, B.A., B.G.L., Mr. K. Bala Murugan and their family members for their sincere encouragement and inspiration throughout my research work and lifting me uphill this phase of life. Words are short to express my deep sense of gratitude towards my uncle late. R. Thankappan, mother in law Tmt. T. Saroja, and sister in laws Mrs. T. Swatika Ashokkumar, B.Sc., and Ms. T. Nithya, I.T.I., who helped me in the successful completion of this work.

My special thanks are to Spy computers, Erode for their neat execution of the work.

Above all, I render myself to the grace of Almighty for enlightening me and being the power house in providing all success in all my endeavour.

Place: Tirunelvelvi
Date: K.THANGA MARIAPPAN