ACKNOWLEDGEMENT

I am deeply indebted and owe special thanks to my esteemed guide, Dr. R. Bakthavathsalam, Associate Professor and Head (Former), Department of Zoology and Biochemistry, Govt Arts College (Autonomous), Kumbakonam – 612001, for suggesting this problem and to provide necessary research facilities and also for constant encouragement and support, scholarly advise, valuable guidance and suggestions, and critical comments during the course of this research work. He did not bother about his pains while rendering helps from the beginning to the end of this research work. I have learned a lot from him during the course of the study.

I regard my respectable gratitude to my Doctoral Committee Member, Dr. K. Thiyagesan, Associate Professor and Head, Department of Zoology and Wild Life Biology, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai – 609305, for valuable and critical comments to the improvement of this thesis.

I am very much thankful to all the regular and in – charge Principals of this college for their help during the course of this Ph.D. work.

I have great pleasure in expressing my sincere gratitude to the present Head of the Department of Zoology and Biochemistry, Dr. K. Palanivelu, for extending necessary facilities to finish this research work successfully and for his encouragement during the course of this study.

My sincere thanks extended to Dr. R. Ramalingam, Professor and Head (Former), Department of Zoology, Annamalai University, Annamalai Nagar, Chidambaram, for his encouragement and also for providing necessary reference materials for this work.
I express my deep sense of gratitude to Dr. D. Jayakumar, Professor of Soil Science and Agriculture Chemistry, Anbil Darmalingam Agricultural College and Research Institute, Trichirapalli, TamilNadu, for his help in analysing the samples of soil and different vermicomposts and for providing necessary reference materials for this research work.

I am highly thankful to Mrs. P. Mathari, M.A., M.Ed., M.Phil., and her family members for their hospitality.

My immense thanks to all teaching and non teaching staff members of this department for their help and encouragement and also my special thanks to Dr. R. Sivakumar, Assistant Professor of Zoology for his help while preparing tamil version of this thesis abstratct.

I express my deep sense of gratitude to Dr. S. Pushpa, and Dr. A. V. Muralidaran, Assistant Professors, Department of Zoology, Annamalai University, Annamalai Nagar, Chidamabaram, for their help during synopsis preparation and presentation.

I am beholden to my friends Mr. S. Uthayakumar, M.Sc., M.Phil., Mr. M. Purushothaman, M.Sc., M.Phil., and Mr. M. Muruganantham, M.Sc., M.Phil., B.Ed., for their timely help and co-operation to complete this work.

On a personal note I am privileged to add a deep sense of gratitude to my beloved parents, Mr. A. T. Marinuthu and Mrs. M. Vijaya and my sister, Miss. M. Sathyanayaki, M.A., M.L., for their kind support and co-operation.

I acknowledge my special thanks to Mr. T. H. Denesh, M.B.A., Kumbakonam, for his neat execution while typing this thesis.

M. DEIVANAYAKI