ACKNOWLEDGEMENT

I express my deep sense of gratitude and profound thanks to Dr.D.Kalaivani, M.Sc., Ph.D., Associate Professor, Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli-620 002, for her inspiring guidance, thought provoking discussions and constant encouragement throughout the entire period of research and I am fortunate in having worked under her guidance. I am most grateful to her for the patience and kindness shown to me during the tenure of my research.

I am very much indebted to the Secretary, Mr. R. Panchapakesan and Principal Dr. Kanaka Bashyam, M.A., M.Phil., Ph.D., P.G.D.J., Seethalakshmi Ramaswami College, Tiruchirappalli-620 002, who provided me with all facilities to carry out the research work on a part-time basis.

I am very much thankful to the members of doctoral committee, Dr. S. Lalitha, M.Sc., M.Phil., Ph.D., former Head, and Dr. V. Usha, M.Sc., M.Phil., B.Ed., Ph.D., Associate Professor, Department of Chemistry, Seethalakshmi Ramawami College, Tiruchirappalli-620 002, for their fruitful suggestions and encouragement.

I whole heartedly thank Dr. Janaki Arunan, M.Sc., M.Phil., Ph.D., former Head, Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli-620 002, for the care and affection during every stage of present investigation.

I also owe my sincere thanks to Dr. D. Vimala Devi, M.Sc., M.Phil., Ph.D., former Head, Dr. R. Kasthuri, M.Sc., M.Phil., Ph.D., Head, and Dr. K. Banumathi, M.Sc., M.Phil., Ph.D., Associate Professor, Department of Chemistry, Seethalakshmi Ramaswami College, for their thought provoking and constructive suggestions during the present work.

I am also thankful to all the faculty members, non-teaching staff and research scholars of the Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli-620 002, for their support and concern.
My sincere thanks are due to Dr. A. Subashini, M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli-620 002, for her invaluable suggestions during the course of my research work.

I am immensely grateful to Dr. P. Thomas Muthiah, M.Sc., Ph.D., Professor, School of Chemistry, Bharathidasan University, Tiruchirappalli-620024, Dr. K. Balasubramanian, Assistant Professor, Government Arts College, Karur, Dr. M. Nethaji, Principal Research Scientist, Department of Inorganic and Physical Chemistry, IISC, Bangalore – 560 012, Dr. Babuvarghees and Mr. R. Jagan, SAIF, Indian Institute of Technology Madras, Chennai-600 036, for collection and interpretation of crystal data for some of my crystals.

I also owe my sincere thanks to Dr. R. Renganathan, M.Sc., Ph.D., Professor, and Dr. A. Elangovan, M.Sc., Ph.D., Professor, School of Chemistry, Bharathidasan University, Tiruchirappalli-620 024, for the help rendered during this programme.

I record my sincere thanks to Miss. S. Rajeswari, M.Sc., Research Scholar, National Institute of Technology, Tiruchirappalli-620 015, for the timely help during the research period.

I am indebted to Dr. S. Karpagam Kumara Sundari, M.Pharm., Ph.D., Head, Department of Pharmacology, Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli – 620 021, for the useful discussion regarding anticonvulsant activity.

I thank sincerely Mr. K. A. S. Mohammed Shafeeq, M.Pharm., (Ph.D.), Lecturer, Department of Pharmacology, Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli-620 021, for his help in the collection of data for pharmacological studies.

I express my profound sense of gratitude to Mrs. G. Umadevi, M.Sc., M.Phil., B.Ed., (Ph.D.), for screening the samples for antimicrobial activities.
I thank SAIF, Central Drug Research Institute, Lucknow for the Spectral analysis.

My sincere thanks are also due to Mr. Srinivasan Govindan, Design Engineer, Intel Technology, Bangalore-560 017, and Mr. K. Gnanamani, Research Scholar, Department of Chemistry, Pondicherry Central University, Puducherry-605 014, for the help rendered towards literature survey with Sci finder collections.

My special thanks are reserved to my husband Mr. S. Sakthivel, M.A., M.Phil., B.Ed., P.G. Assistant, Government Higher Secondary School, Pulivalam and daughters Selvi S. Kirubalini and Selvi S. Srilekha for their co-operation and constant support to carry out the research work smoothly.

I profusely thank Mr. P. Padmanaban, DCA, Senior Assistant, St. Joseph’s College, Tiruchirappalli-620 002, for all the helps extended to me.

I offer my thanks and prayer to God Almighty, for having enabled me to carry out this investigation to the end successfully.

(R. Malarvizhi)