ACKNOWLEDGEMENT

I am deeply indebted to my supervisor Dr. M.J. Umapathy, Senior Lecturer, Department of Chemistry, College of Engineering, Anna University, Chennai, for his encouragement, guidance, motivation, endurance and perseverance which acted as stimulants for the completion of my work which otherwise would have been a distant reality.

It is a pleasure to thank Shri R.S. Munirathinam, Chairman, Smt. Manjula Munirathinam, Chairperson, Shri R.M. Kishore, Vice-Chairman and the management team of R. M. K Engineering College for their constant support during this tenure. My sincere thanks are to Dr. V. Sadasivam, Professor and Head, Department of Chemistry, CEG, Anna University, Chennai for his encouragement and my deepest gratitude to Dr. S. Nanjundan, former Professor and Head, Department of Chemistry, CEG, Anna University, Chennai for his valuable suggestions during my project work.

I would like to thank Dr. C.C.M. Pillai, Professor and Head, Science and Humanities, R. M. K. E. C and all my friends for their help in all aspects. Thanks are also due to K.S. Yoganand and other Research Scholars, Department of Chemistry, CEG, Anna University for their kind help. I also extend my heartfelt thanks to my family members and well wishers.

Special thanks are to my son Master A. Tarun, for his patience and cooperation during this project work.

MEENA M